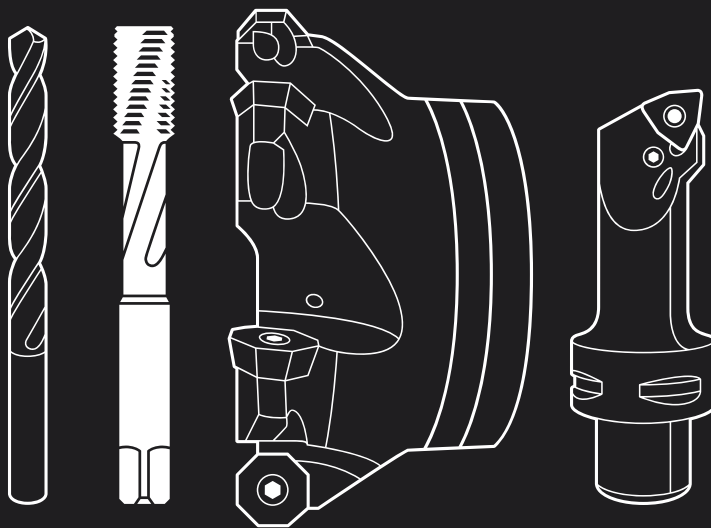


_ METAL IS OUR WORLD

Tools for Threading



How to find and order your tool solution:



Personal – worldwide

You can contact us by phone, fax or e-mail. The contact details for your local contact can be found on our website at: walter-tools.com



The Walter Hybrid catalogs and brochures

show the entire standard range under the Walter, Walter Titex, Walter Prototyp and Walter Multiply competence brands – in print or in digital format – with product range overviews, product data, cutting data recommendations and much more. Including links to our machining navigator, Walter GPS, or the Walter TOOLSHOP with the chance to order directly.

At walter-tools.com, you can access and order your Walter products quickly and conveniently online – via smartphone, tablet or PC.

The benefit for you: Direct access from any device, displayed in an optimised form, at any time.

Walter online catalog



Tool-specific search

You can find products in the Walter online catalog using the familiar structure of our product catalogue as well as filter and search functions. Other features: A shopping function and links to drawings and models.

Walter GPS



Application-based search

With Walter GPS, it takes just a few steps to find the optimum machining solution for your component, online and offline – and the solution can be transferred directly to the Walter TOOLSHOP if required.

Walter Innotime®



Component-based search

With Walter Innotime®, you can find the most cost-effective machining solution for your component, including all the tools, machining steps and machining parameters required for this. Simply by uploading your 3D model.

Digital ordering methods



TOOLSHOP



EDI B2B

Walter TOOLSHOP & EDI

The Walter TOOLSHOP offers customers opportunities to find information and place orders quickly.

EDI (electronic data interchange) also makes it possible to exchange documents (e.g. orders) – even special tools can be ordered.

C - Threading

C1 - Tapping

HSS-E (-PM) taps	Program	Order pages
HSS-E (-PM) taps	C 10	
M – Metric thread		C 23
MF – Metric fine-pitch thread		C 140
UNC / UNF / UNEF / UN-8 / UNS		C 192
MJ/UNJC/UNJF		C 239
G/Rc/Rp		C 249
NPT/NPTF		C 268
Pg/BSW/Tr		C 276
Thread insert		C 281

Solid carbide taps	Program	Order pages
Solid carbide taps	C 306	
M – Metric thread		C 308
MF – Metric fine-pitch thread		C 318
UNC, UNF		C 323
G		C 325

C2 - Thread forming

HSS-E (-PM) and solid carbide thread formers	Program	Order pages
HSS-E (-PM) and solid carbide thread formers	C 326	
M – Metric thread		C 330
MF – Metric fine-pitch thread		C 370
UNC, UNF		C 383
G		C 385

C3 - Thread milling

Thread milling cutters without countersink	Program	Order pages
Thread milling cutters without countersink	C 388	C 390

Thread milling cutters with countersink	Program	Order pages
Thread milling cutters with countersink	C 429	C 430

Thread milling	Program	Order pages
Drill/thread mills	C 434	C 435

Orbital thread milling cutters	Program	Order pages
Solid carbide orbital thread milling cutters	C 444	C 445

Thread milling cutters with indexable inserts	Program	Order pages
Thread milling cutters with indexable inserts	C 469	C 470

C4 - Threading dies

Threading dies	Order pages
Threading dies	C 489

Technologies at Walter

(((Accure-tec®

The patented Walter Accure-tec® technology ensures maximum vibration damping on boring bars for turning and adaptors for milling. Ideal for turning, milling and drilling operations involving extended tool applications.

Drion-tec®

Drion-tec® is the name for Walter's drilling and reaming tool solutions with a replaceable cutting edge – both with indexable inserts and exchangeable inserts. Drion-tec® drills are set apart by their cost-efficiency, high precision and versatility. Thanks to a wide product range, they are suitable for specialised mass production as well as for specific applications and mixed-mode manufacturing.

Groov-tec™

Groov-tec™ is the latest generation of Walter high-performance cutting tools. These are characterised by maximum stability, which enables high process parameters (feeds/speeds/depth of cut) and leads to maximum toolholder and indexable insert service life. At the same time, the systems maximise process reliability by means of controlled chip breaking.

Krato-tec®

Krato-tec® is a unique Walter coating technology for solid carbide tools. The core of this consists of an extraordinarily fracture-resistant AlTiN multi-layer coating with a textured top layer. The special layer architecture is highly wear- and adhesion-resistant, even at high cutting speeds, and ensures the tools have universal application.

Tiger-tec® Gold

Tiger-tec® Gold, the new Walter generation platform for unique indexable insert coatings, enables maximum tool life and process reliability. The new grades are based on PVD, CVD or ULP technology, depending on the application. Unique coating properties, protected by multiple patents, guarantee the best protection against tool life-limiting types of wear and ensure outstanding performance.

Tiger-tec® Silver

With Tiger-tec® Silver, Walter is offering a world first in coating technology for indexable inserts. The special aluminium oxide layer with optimised microstructure reduces wear during turning, milling and drilling operations, and increases toughness and temperature resistance for significantly higher cutting data.

Thread-tec™

Thread-tec™ refers to selected Walter threading tools with high performance and process reliability. Combining the most recent technical developments and proven properties in tool geometries and coatings, Thread-tec™ is a comprehensive product range featuring a variety of lengths and dimensions. This makes the assortment suitable for any application – whether for thread milling, forming, or tapping.

Thrill-tec™

Thrill-tec™ circular drill/thread mills combine three functions in one tool and operation: Chamfering, drilling core holes and producing threads. The tools boast a special combination of substrate, coating and geometry, resulting in long tool life. Bringing together multiple machining steps makes incredibly short machining times possible and reduces the number of tools used and machine slots required.

Walter BLAXX

Walter BLAXX is the benchmark for a new generation of milling cutters: The milling bodies are extremely robust thanks to their special surface treatment. The milling systems, which are mainly positioned tangentially, are equipped with Tiger-tec® indexable inserts. Tools with the "Walter BLAXX" designation combine high wear resistance with unbeatable performance data.

Walter Xpress

Walter Xpress is the rapid ordering and delivery service offered by Walter MultiPLY for high-quality special tools. It is available for around 10,000 tool varieties, with a maximum delivery time of two to four weeks from the order date. The ordering process is clearly structured and guarantees absolute planning security. Quotations for all enquiries are calculated and provided within 24 hours.

Walter Precision XT

Precision boring tools are always used to finish an existing bore or to improve the precision of existing bores, for instance by correcting their position, narrowing the hole tolerance, or enhancing the surface quality. Precision boring is typically performed using a depth of cut < 0.5 mm (0.02 inches).

Walter Boring XT

Tools for rough boring are used to expand existing bores. Material removal is a key element of this process. The bore to be enlarged is machined in advance or created using casting or forging processes. The rough boring tools themselves can also be used for radial offsetting and multi-edge boring.

XD Technology

Walter Titex solid carbide drilling and reaming tools stand for precision, high performance and cost-efficiency when drilling in practically any material. Walter Titex XD Technology offers the greatest precision and cost-efficiency in deep-hole drilling operations up to $70 \times D_c$ without pecking.

Xill-tec®

With Xill-tec®, the solid carbide milling cutters from the MC230 Advance product range, Walter offers a uniquely wide range, with different dimensions, numbers of teeth and shank versions. This means that users are well-equipped for all conceivable milling operations and ISO materials. Universal use – with excellent quality.

Xtra-tec®

Xtra-tec® indexable insert milling cutters and drills guarantee extremely soft cutting action and optimal surface quality on almost all materials. Indexable inserts with highly positive geometries and the Tiger-tec® coating have a particularly beneficial hardness/toughness ratio. For maximum productivity and process reliability.

Xtra-tec® XT

Xtra-tec® XT is the latest generation of Walter milling tools. As the "Xtended" Xtra-tec® technology, it offers a completely new perspective on productivity and process reliability. It can cover nearly all milling operations in every common material group: More reliable, productive, cost-efficient than ever before – all while compensating for the CO₂ emissions through Walter Green.

X-treme Evo

For Walter, the X-treme Evo DC260 & DC160 Advance solid carbide drills as well as the X-treme Evo Plus DC180 Supreme and X-treme Evo 3 DC183 Supreme are the embodiment of the "next generation of drilling", offering versatility for a wide range of materials and machine concepts – with outstanding tool life, productivity and process reliability.

Technologies at Walter (continued)



Walter Capto™ is a modular tool adaptor system. It is suitable for all turning, milling, drilling and threading processes. Its ISO-standardised polygon taper absorbs torsional moments and bending moments extremely well and ensures optimal repeat accuracy.



Walter ConeFit is an extremely flexible solid carbide milling system with a wide range of high-performance exchangeable heads and shaft variants. Its conical thread can self-centre, thereby guaranteeing maximum stability and concentricity.



Walter ScrewFit users benefit from maximum flexibility. Its modular interface is suitable for a wide variety of boring bars and adaptors and a wide range of tool diameters and lengths for milling and drilling.



The precision-ground QuadFit interface with taper and support face characterises the precision of the vibration-damped boring bars for turning and thread turning with Walter Accure-tec® technology. The exchangeable head system, which can be rotated by 180°, makes it possible to rapidly replace tools with high indexing accuracy.



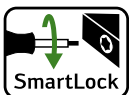
In turning and grooving operations, the Walter precision cooling system provides cooling at the centre of the chip formation. Its dual coolant jets are directed precisely onto the flank and rake faces. In drilling operations, the coolant jets exit close to the cutting edge. This system provides significantly increased tool life, improved chip breaking and chip removal, greater efficiency and higher quality.



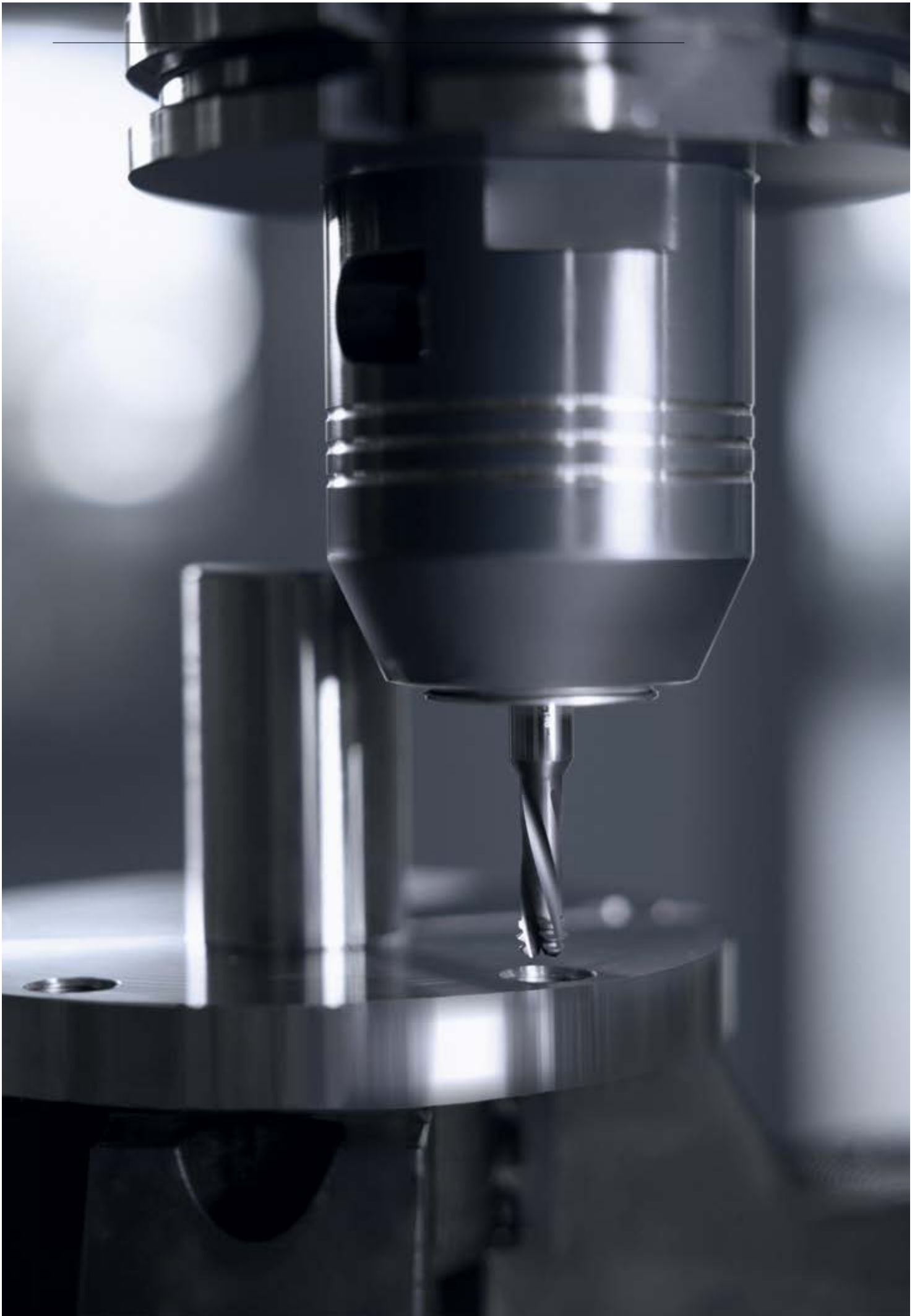
Walter DeVibe is an anti-vibration technology for thread milling cutters. At its core, it consists of a »calming chamfer« that reduces the clearance angle on the flank face. This supports the tool; vibrations are minimised. DeVibe enables higher surface qualities and cutting data, particularly for metric fine threads – regardless of clamping conditions, changing cutting data or the milling strategy.



“Flash” refers to specialised solid carbide milling cutters for high-feed milling. Their end-face geometry reduces the chip thickness “h” and therefore enables an extremely high feed per tooth. Forces that occur are diverted axially towards the centre of the tool, which helps to stabilise the machining process.




On Walter turning toolholders with “SmartLock”, the clamping screw can be operated from the side of the tool. This makes it possible to index the inserts in the machine quickly and easily. Tool change times are reduced as a result. Ideal for use on CNC lathe and multi-spindle machines.




The structure of the new Walter General Catalog


The new Walter General Catalog presents information about products and applications in a comprehensive and clear manner as an e-document – including direct links to the Walter online catalogue.


Tapping











HSS-E (-PM) taps



Machining



Thread depth

	3 x D _N	3 x D _N	3,5 x D _N	3,5 x D _N	1,5 x D _N
					
Designation	Prototex® X-pert P	Prototex® X-pert P AZ	Prototex® Eco Plus	TC216 Perform	Paradur® H
Thread type					
M	✓	✓	✓	✓	✓
MF	✓		✓	✓	✓
UNC / UNF / UN-8	✓		✓	✓	
G / Rc / Rp	✓		✓		✓
MJ / UNJC / UNJF	✓		✓		
NPT / NPTF					
Pg / BSW / Tr	✓				
Thread insert	✓				
Tolerance	2B / 3B / 4H / 6G / 6H / 6HMOD / 7G / MEDIUM / NORMAL	6H	2B / 6G / 6H / NORMAL	2B / 6H	6H / NORMAL
Coolant supply	External	External	External / radial	External	External
Chamfer form	B	B	B	B	C
Coating / grade	TICN / TIN		THL / TIN	WY80AA / WY80FC	TIN
Cutting tool material	HSS-E	HSS-E	HSS-E-PM	HSS-E	HSS-E
P Steel	●●	●●	●●	●●	●●
M Stainless steel	●●	●●	●●	●●	●●
K Cast iron	●●	●●	●●	●●	●●
N NF metals	●●	●●	●●	●●	●●
S Materials with difficult cutting properties	●●	●●	●●	●●	●●
H Hard materials					
D Other	●	●			
Page in catalogue	16	17	18	19	
QR code					
www.walter-tools.com/woc/	prototex-xpert-p	prototex-xpert-p-az	prototex-eco-plus	TC216	paradur-h



WALTER SELECT ●● Primary application ● Other application

8 HSS-E (-PM) taps

Product range overviews with applications, materials and QR codes at a glance

The product range overviews include icons indicating applications, images of the products, and the range of materials for which the products can be used; if relevant, they also include shank versions, clamping systems and other important information. This means that you can immediately see which product you need – and go directly to more detailed information about it by scanning the corresponding QR code or typing the link provided into your browser.

NEW Tools with this icon are product innovations and are displayed in this way in the product range overviews.

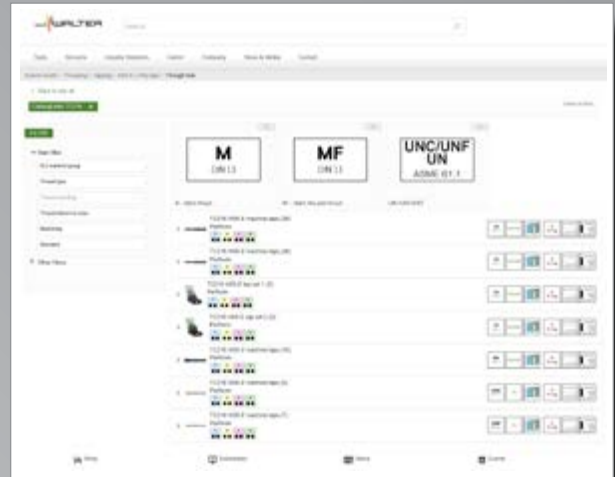
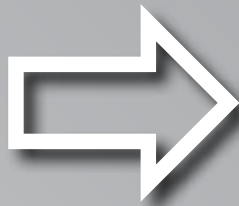
  Indexable inserts and tools with these red icons are new to the range and are labelled in this way on the ordering page.

Scan the QR code

to go directly to the sub-page for the corresponding product in the Walter online catalog. The brief overview contains an image of the tool or product, icons representing applications and other information, and the main and secondary applications in the ISO materials sector.



TC216

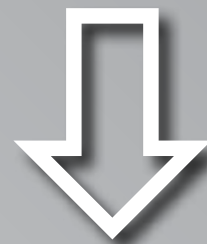


Direct link

As well as scanning the QR code, you can also type the link directly into your browser:

www.walter-tools.com/woc/TC216.

In the e-document, you can of course click on the link itself.



Detailed overview of product data

Depending on the product, the information available here or on the following product details page will include dimensions, corresponding indexable inserts, adaptors, and accessories, as well as direct links to additional information such as cutting data recommendations via Walter GPS or technical information like assembly instructions, limit speeds and much more.

HSS-E machine taps
TC216

UNC 40-32 26
C 2xEN
32HRC
1200 RPM
1200 RPM

For long-chipping materials

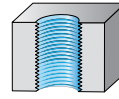
WYSGAA_216

Switch to inch values

DN 3T1	Designation	D _h P	C _s min	l _h min	l _h max	l _h min
	Perform - 13,5x2 - UNC05 - DN 3T1 - Suitable for through hole (R)	14H	3.005 - 3.025	55 - 100	11 - 20	20 - 35
	TC215-UNC05-C0-WYSGAA	UNC #5-32	3.005	55	11	20
	TC215-UNC05-C0-WYSGAA	UNC #5-32	4.105	63	12	21
	TC215-UNC15-C0-WYSGAA	UNC #10-24	4.825	70	13	25
	TC215-UNC14-C0-WYSGAA	UNC 1/4-20	5.35	80	15	30
	TC215-UNC18-C0-WYSGAA	UNC 9/16-18	7.925	90	18	35
	TC215-UNC18-C0-WYSGAA	UNC 3/8-18	5.525	100	20	30

HSS-E (-PM) taps

Machining



Thread depth

1 x D_N

1 x D_N

1 x D_N

1 x D_N

2 x D_N



Designation

AMB

MMB

Protostep Inox

Prototex® OS

Prototex® TiNi

Thread type

M

✓

✓

✓

✓

✓

MF

✓

UNC / UNF / UN-8

✓

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

✓

Tolerance

7G

6H

6HX

6H

2B / 3B / 4H / 4HX / 6HX

Coolant supply

External

External

External

External

External

Chamfer form

18 P

NA

B

B

Coating / grade

TIN

uncoated

VAP

uncoated

TICN / uncoated

Cutting tool material

HSS-E

HSS-E

HSS-E

HSS-E

HSS-E-PM

P Steel

●●

●●

●●

●●

●●

M Stainless steel

●●

●●

K Cast iron

●●

N NF metals

●

●

S Materials with difficult cutting properties

●●

H Hard materials

O Other

Page in catalog

C 71

C 70

C 72

C 42

C 58

QR code



www.walter-tools.com/woc/

amb

mmb

protostep-inox

prototex-os

prototex-tini

HSS-E (-PM) taps

Machining					
Thread depth	2 x D _N	2 x D _N	3 x D _N	3 x D _N	3 x D _N

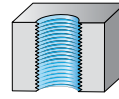


Designation	Prototex® TiNi Plus	TMB	KMB H	Paradur® N	Prototex® Megasprint
Thread type					
M	✓		✓	✓	✓
MF	✓				
UNC / UNF / UN-8					
G / Rc / Rp					
MJ / UNJC / UNJF	✓				
NPT / NPTF					
Pg / BSW / Tr		✓	✓		
STI / Eg / thread insert					
Tolerance	3B / 4H / 6HX	7H	6H / NORMAL	6H	6H
Coolant supply	External	External	External	External	radial
Chamfer form	B	24 P	B	D	B
Coating / grade	ACN	uncoated	uncoated	uncoated	TIN
Cutting tool material	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E-PM
P Steel		●●	●●	●●	●
M Stainless steel					●
K Cast iron		●●	●●	●●	
N NF metals		●●	●●	●●	●
S Materials with difficult cutting properties	●●				
H Hard materials					
O Other		●	●		
Page in catalog	C 60	C 279	C 69	C 43	C 62
QR code					
www.walter-tools.com/woc/	prototex-tini-plus	tmb	kmb-h	paradur-n	prototex-megasprint

C1

HSS-E (-PM) taps

Machining



Thread depth

 3 x D_N

 3 x D_N

 3 x D_N

 3 x D_N

 3 x D_N


C1

Designation	Prototex® Sprint	Prototex® Synchrospeed	Prototex® X-pert M	Prototex® X-pert N	Prototex® X-pert P
Thread type					
M	✓	✓	✓	✓	✓
MF	✓	✓	✓		✓
UNC / UNF / UN-8			✓		✓
G / Rc / Rp			✓		✓
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					✓
STI / Eg / thread insert			✓		✓
Tolerance	6H	6HX	2B / 3B / 5HX / 6GX / 6HMOD / 6HX / NORMAL	6H	2B / 3B / 4H / 6G / 6H / 6HMOD / 7G / MEDIUM / NORMAL
Coolant supply	External	External	External	External	External
Chamfer form	B	B	B	B	B
Coating / grade	TICN / TIN	THL / TIN	TICN / TIN / VAP	uncoated	TICN / TIN / uncoated
Cutting tool material	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E
P Steel	●	●●	●		●●
M Stainless steel	●	●●	●●		
K Cast iron		●●			●●
N NF metals	●	●●		●●	●●
S Materials with difficult cutting properties		●●		●	
H Hard materials					
O Other		●●		●	●
Page in catalog	C 61	C 41	C 55	C 57	C 44
QR code					
www.walter-tools.com/woc/	prototex-sprint	prototex-synchrospeed	prototex-xpert-m	prototex-xpert-n	prototex-xpert-p

HSS-E (-PM) taps

Machining					
Thread depth	3 x D _N	3 x D _N	3.5 x D _N	3.5 x D _N	1.5 x D _N

NEW

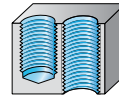


Designation	Prototex® X-pert P AZ	TD217 Advance	Prototex® Eco Plus	TC216 Perform	Paradur® H
Thread type					
M	✓	✓	✓	✓	✓
MF		✓	✓	✓	✓
UNC / UNF / UN-8			✓	✓	
G / Rc / Rp			✓		✓
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	6H	4HX / 5HX / 6G / 6GX / 6H / 6HX / 7GX	2B / 6GX / 6HX / NORMAL	2B / 6H	6H / NORMAL
Coolant supply	External	External	External / radial	External	External
Chamfer form	B	B	B	B	C
Coating / grade	uncoated	WY80AA / WY80FC / WY80RG	THL / TIN	WY80AA / WY80FC	TIN / uncoated
Cutting tool material	HSS-E	HSS-E	HSS-E-PM	HSS-E	HSS-E
P Steel	●●	●●	●●	●●	
M Stainless steel		●●	●●	●●	
K Cast iron	●●	●●	●●	●●	●
N NF metals	●●	●●	●●	●●	●●
S Materials with difficult cutting properties					
H Hard materials					
O Other	●				●
Page in catalog	C 51	C 27	C 23	C 38	C 91
QR code					
www.walter-tools.com/woc/	prototex-xpert-p-az	TD217	prototex-eco-plus	TC216	paradur-h

C1

HSS-E (-PM) taps

Machining



Thread depth

2 x D_N

2 x D_N

2 x D_N

2 x D_N

2 x D_N



Designation

HGB

HGB InOX

HGB Ti

Paradur® AP

Paradur® FT

Thread type

M



MF

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

Tolerance

6H

6HX

6HX

6HX

6H

Coolant supply

External

External

External

External

External

Chamfer form

C

C

C

C

D

Coating / grade

uncoated

VAP

NiD

NiTi

uncoated

Cutting tool material

HSS

HSS-E

HSS-E

HSS-E

HSS-E-PM

P Steel



M Stainless steel



K Cast iron



N NF metals



S Materials with difficult cutting properties



H Hard materials

O Other



Page in catalog

C 64

C 65

C 66

C 131

C 137

QR code



www.walter-tools.com/woc/

hgb

hgb-inox

hgb-ti

paradur-ap

paradur-ft

HSS-E (-PM) taps

Machining					
	3 x D _N	3 x D _N	3 x D _N		

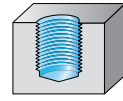
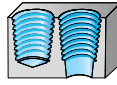


Designation	KMB Ms	Paradur® Eco CI	Paradur® X-pert K	Paradur Inox®	Paradur Inox® 40
Thread type					
M	✓	✓	✓		
MF		✓			
UNC / UNF / UN-8		✓			
G / Rc / Rp	✓	✓			
MJ / UNJC / UNJF					
NPT / NPTF				✓	✓
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	6H / NORMAL	2B / 6HX / NORMAL	6HX	NORMAL	NORMAL
Coolant supply	External	External	External	External	External
Chamfer form	E / F	C / E	C	C	C
Coating / grade	uncoated	NiD / TiCN	TAFT	THL / VAP	uncoated
Cutting tool material	HSS-E	HSS-E-PM	HSS-E-PM	HSS-E	HSS-E
P Steel				●●	●●
M Stainless steel				●●	●●
K Cast iron		●●	●●	●	●
N NF metals	●●	●●	●		●
S Materials with difficult cutting properties					
H Hard materials					
O Other	●	●●			
Page in catalog	C 68	C 120	C 126	C 270	C 271
QR code					
www.walter-tools.com/woc/	kmb-ms	paradur-eco-ci	paradur-xpert-k	paradur-inox	paradur-inox-40

C1

HSS-E (-PM) taps

Machining



Thread depth

 $1.5 \times D_N$
 $1.5 \times D_N$


Designation	Paradur® H	Paradur® N	Paradur® Ni	Paradur Inox® 25	Paradur® HN
Thread type					
M				✓	
MF				✓	✓
UNC / UNF / UN-8					
G / Rc / Rp	✓			✓	
MJ / UNJC / UNJF					
NPT / NPTF	✓	✓	✓		
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	NORMAL	NORMAL	NORMAL	6HX / NORMAL	6HX
Coolant supply	External	External	External	External	External
Chamfer form	C	C	C	E	E
Coating / grade	uncoated	VAP	TICN / uncoated	TIN	uncoated
Cutting tool material	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
P Steel		●●	●	●●	●●
M Stainless steel				●●	
K Cast iron	●	●●			●●
N NF metals	●●	●●			●●
S Materials with difficult cutting properties			●●		
H Hard materials					
O Other	●				
Page in catalog	C 266	C 269	C 272	C 90	C 171
QR code					
www.walter-tools.com/woc/	paradur-h	paradur-n	paradur-ni	paradur-inox-25	paradur-hn

HSS-E (-PM) taps

Machining					
Thread depth	1.5 x D _N	1.5 x D _N	1.5 x D _N	1.5 x D _N	2 x D _N

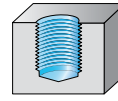


Designation	Paradur® N	Paradur® Ni	Paradur® Ni 10	TC122 Supreme	Paradur® Ti
Thread type					
M	✓	✓	✓	✓	✓
MF	✓		✓		✓
UNC / UNF / UN-8	✓	✓			✓
G / Rc / Rp	✓				
MJ / UNJC / UNJF			✓		✓
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert		✓			✓
Tolerance	2B / 3B / 6G / 6H / NORMAL	2B / 3B / 4H / 4HX / 6HX	3B / 4H / 6HX	6HX	2B / 3B / 4H / 6HX
Coolant supply	External	External	External	External	External
Chamfer form	C	C	C	C	C
Coating / grade	TICN / TIN / uncoated	TICN / uncoated	TIN / uncoated	WW60BC	TICN / uncoated
Cutting tool material	HSS-E	HSS-E-PM	HSS-E-PM	HSS-E-PM	HSS-E-PM
P Steel	●●	●●	●●	●●	●●
M Stainless steel					
K Cast iron	●●	●●		●	●●
N NF metals	●●	●	●		●
S Materials with difficult cutting properties		●●	●●		●●
H Hard materials					
O Other					
Page in catalog	C 95	C 132	C 134	C 102	C 135
QR code					
www.walter-tools.com/woc/	paradur-n	paradur-ni	paradur-ni-10	TC122	paradur-ti

C1

HSS-E (-PM) taps

Machining



Thread depth

 2 x D_N

 2.5 x D_N

 2.5 x D_N

 2.5 x D_N

 2.5 x D_N


C1

Designation	Paradur® Ti Plus	Paradur® STE	Paradur® Synchrospeed	Paradur® X-pert M	TC121 Supreme
Thread type					
M	✓	✓	✓	✓	✓
MF	✓	✓	✓	✓	
UNC / UNF / UN-8				✓	
G / Rc / Rp		✓	✓	✓	
MJ / UNJC / UNJF	✓				
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert				✓	
Tolerance	3B / 4H / 6HX	6HX / NORMAL	6HX / NORMAL	2B / 3B / 6GX / 6HMOD / 6HX / NORMAL	6HX
Coolant supply	External	External	External / axial	External	External / axial
Chamfer form	C	E	C	C	C
Coating / grade	ACN	THL / uncoated	THL / TIN/VAP	THL / TiCN / TIN / VAP	WW60RG / WY80BD
Cutting tool material	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E-PM
P Steel		●	●●	●	●●
M Stainless steel		●	●●	●●	●
K Cast iron		●	●●		●
N NF metals		●	●		●
S Materials with difficult cutting properties	●●		●		
H Hard materials					
O Other			●		
Page in catalog	C 136	C 114	C 89	C 116	C 100
QR code					
www.walter-tools.com/woc/	paradur-ti-plus	paradur-ste	paradur-synchrospeed	paradur-xpert-m	TC121

HSS-E (-PM) taps

Machining					
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Thread depth	2.5 x D _N	2.5 x D _N	2.5 x D _N	3 x D _N	3 x D _N
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NEW

NEW



Designation	TC122 Supreme	TD117 Advance	Thread-tec™	KMB WST	Paradur® Eco CI
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Thread type					
M	✓	✓	✓	✓	✓
MF		✓	✓		✓
UNC / UNF / UN-8					
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert			✓		

Tolerance	6HX	6GX / 6HX	6GX / 6HMOD / 6HX	6H	6HX
-----------	-----	-----------	-------------------	----	-----

Coolant supply	axial	External	External	External	axial / radial
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Chamfer form	C	C / E	C / E	C	C / E
--------------	---	-------	-------	---	-------

Coating / grade	WW60BC	WY80AA / WY80FC / WY80RG	WY80AA / WY80FC / WY80RG	uncoated	TICN
-----------------	--------	--------------------------	--------------------------	----------	------

Cutting tool material	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E-PM
-----------------------	----------	-------	-------	-------	----------

P Steel	●●	●●	●●	●●	
M Stainless steel		●●	●●		
K Cast iron	●	●●	●●	●	●●
N NF metals		●●	●●	●	●●
S Materials with difficult cutting properties					
H Hard materials					
O Other					●●

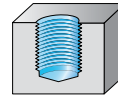
Page in catalog	C 102	C 80	C 80	C 67	C 121
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QR code					
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www.walter-tools.com/woc/	TC122	TD117	TD117	kmb-wst	paradur-eco-ci
---------------------------	-------	-------	-------	---------	----------------

HSS-E (-PM) taps

Machining



Thread depth

 3 x D_N

 3 x D_N

 3 x D_N

 3 x D_N

 3 x D_N


C1

Designation	Paradur® Eco Plus	Paradur® Uni	Paradur® WLM Synchrospeed	Paradur® X-pert N	Paradur® X-pert P
Thread type					
M	✓	✓	✓	✓	✓
MF	✓	✓		✓	✓
UNC / UNF / UN-8	✓			✓	✓
G / Rc / Rp	✓	✓		✓	✓
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					✓
STI / Eg / thread insert				✓	✓
Tolerance	2B / 6GX / 6HX / NORMAL	6G / 6H / NORMAL	6H	2B / 3B / 6G / 6H / 6HMOD / NORMAL	2B / 3B / 4H / 6G / 6H / 6HMOD / 7G / MEDIUM / NORMAL
Coolant supply	External / axial / radial	External	External	External	External
Chamfer form	C / E	C	C	C	C
Coating / grade	THL / TIN	TIN / VAP / uncoated	CRN / uncoated	uncoated	THL / TIN / uncoated
Cutting tool material	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E
P Steel	●●	●●	●		●●
M Stainless steel	●●				
K Cast iron	●●	●			
N NF metals	●●	●	●●	●●	●
S Materials with difficult cutting properties			●●	●	
H Hard materials					
O Other			●●	●	●
Page in catalog	C 73	C 138	C 130	C 127	C 104
QR code					
www.walter-tools.com/woc/	paradur-eco-plus	paradur-uni	paradur-wlm-synchrospeed	paradur-xpert-n	paradur-xpert-p

HSS-E (-PM) taps

Machining					
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Thread depth	3 x D _N	3 x D _N	3 x D _N	3 x D _N	3.5 x D _N
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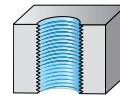
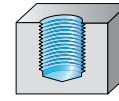
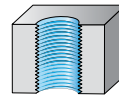
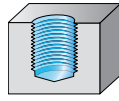


Designation	Paradur® X-pert P AZ	TC115 Perform	TC120 Supreme	TC142 Supreme	Paradur® NH
Thread type					
M	✓	✓	✓	✓	✓
MF		✓		✓	
UNC / UNF / UN-8		✓			
G / Rc / Rp				✓	
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	6H	2B / 6H	6HX	6HX / NORMAL	6H
Coolant supply	External	External	External / axial	External	axial
Chamfer form	C	C / E	C	C	C
Coating / grade	uncoated	WY80AA / WY80FC	WW60AG	WW60RB / WY80FC	TIN / uncoated
Cutting tool material	HSS-E	HSS-E	HSS-E-PM	HSS-E / HSS-E-PM	HSS-E
P Steel	●●	●●	●●	●	●●
M Stainless steel		●●		●●	
K Cast iron		●●			●●
N NF metals	●	●	●		●
S Materials with difficult cutting properties					
H Hard materials					
O Other	●				●
Page in catalog	C 110	C 85	C 98	C 115	C 97
QR code					
www.walter-tools.com/woc/	paradur-xpert-p-az	TC115	TC120	TC142	paradur-nh

C1

HSS-E (-PM) taps

Machining



Thread depth

 3.5 x D_N

 3.5 x D_N

 1.5 x D_N

 3 x D_N

 3 x D_N


Designation	Paradur® Short Chip HT	TC130 Supreme	Paradur® Combi	TC115 Perform	TC216 Perform
Thread type					
M	✓	✓	✓	✓	✓
MF	✓	✓			
UNC / UNF / UN-8		✓			
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert					
Tolerance	6HX	2B / 6HX	6H	6H	6H
Coolant supply	axial	axial	External	External	External
Chamfer form	C	C	C	C	B
Coating / grade	THL / uncoated	WY80AA / WY80EH	uncoated	WY80AA / WY80FC	WY80AA / WY80FC
Cutting tool material	HSS-E	HSS-E	HSS-E	HSS-E	HSS-E
P Steel	●●	●●	●●	●●	●●
M Stainless steel				●●	●●
K Cast iron	●	●●	●	●●	●●
N NF metals	●	●	●	●	●●
S Materials with difficult cutting properties					
H Hard materials					
O Other		●			
Page in catalog	C 113	C 93	C 63	C 87	C 39
QR code					
www.walter-tools.com/woc/	paradur-short-chip-ht	TC130	paradur-combi	TC115	TC216

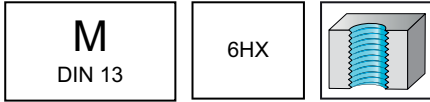
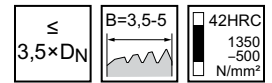
HSS-E PM machine taps

mm

Prototex® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			
TIN	●●	●●	●●	●●			

DIN 371	Designation	Designation	D _N	P	l ₁	L _c	l ₃	d ₁	□	l ₉	N
	THL	TIN									
<p>Parallel shank</p>	EP2021302-M2	EP2021305-M2	M 2	0.4	45	6	9	2.8	2.1	5	3
	EP2021302-M2,5	EP2021305-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
	EP2021302-M3	EP2021305-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	EP2021302-M4	EP2021305-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	EP2021302-M5	EP2021305-M5	M 5	0.8	70	13	25	6	4.9	8	3
	EP2021302-M6	EP2021305-M6	M 6	1	80	15	30	6	4.9	8	3
	EP2021302-M8	EP2021305-M8	M 8	1.25	90	18	35	8	6.2	9	3
	EP2021302-M10	EP2021305-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376	Designation	Designation	D _N	P	l ₁	L _c	l ₃	d ₁	□	l ₉	N
	THL	TIN									
<p>Parallel shank</p>	EP2026302-M12	EP2026305-M12	M 12	1.75	110	23	83	9	7	10	4
	EP2026302-M14	EP2026305-M14	M 14	2	110	25	81	11	9	12	4
	EP2026302-M16	EP2026305-M16	M 16	2	110	25	68	12	9	12	4
	EP2026302-M18	EP2026305-M18	M 18	2.5	125	30	81	14	11	14	4
	EP2026302-M20	EP2026305-M20	M 20	2.5	140	30	95	16	12	15	4
	EP2026302-M24	EP2026305-M24	M 24	3	160	36	113	18	14.5	17	4
	EP2026302-M27		M 27	3	160	36	97	20	16	19	4
	EP2026302-M30		M 30	3.5	180	42	115	22	18	21	4

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

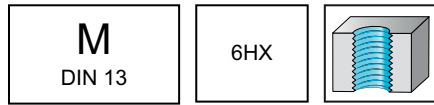
HSS-E PM machine taps

mm

Prototex® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 371	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2021342-M6	M 6	1	80	15	30	6	4.9	8	3
	EP2021342-M8	M 8	1.25	90	18	35	8	6.2	9	3
	EP2021342-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2026342-M12	M 12	1.75	110	23	83	9	7	10	4
	EP2026342-M16	M 16	2	110	25	68	12	9	12	4

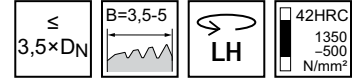
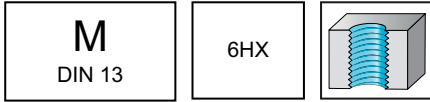
HSS-E PM machine taps

mm

Prototex® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 371	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2021382-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	EP2021382-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	EP2021382-M5	M 5	0.8	70	13	25	6	4.9	8	3
	EP2021382-M6	M 6	1	80	15	30	6	4.9	8	3
	EP2021382-M8	M 8	1.25	90	18	35	8	6.2	9	3
	EP2021382-M10	M 10	1.5	100	20	39	10	8	11	3

Parallel shank

DIN 376	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2026382-M12	M 12	1.75	110	23	83	9	7	10	4
	EP2026382-M16	M 16	2	110	25	68	12	9	12	4
	EP2026382-M20	M 20	2.5	140	30	95	16	12	15	4

Parallel shank

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C1

HSS-E PM machine taps

mm

Prototex® Eco Plus

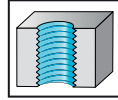


- For long-chipping materials

$\leq 3,5 \times D_N$

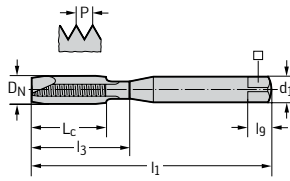
M
DIN 13

6GX



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			
TIN	●●	●●	●●	●●			

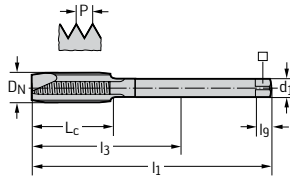
DIN 371



Parallel shank

Designation THL	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
EP2023302-M2	EP2023305-M2	M 2	0.4	45	6	9	2.8	2.1	5	3
EP2023302-M2,5	EP2023305-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
EP2023302-M3	EP2023305-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
EP2023302-M4	EP2023305-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
EP2023302-M5	EP2023305-M5	M 5	0.8	70	13	25	6	4.9	8	3
EP2023302-M6	EP2023305-M6	M 6	1	80	15	30	6	4.9	8	3
EP2023302-M8	EP2023305-M8	M 8	1.25	90	18	35	8	6.2	9	3
EP2023302-M10	EP2023305-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376



Parallel shank

Designation THL	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
EP2028302-M12	EP2028305-M12	M 12	1.75	110	23	83	9	7	10	4
EP2028302-M14	EP2028305-M14	M 14	2	110	25	81	11	9	12	4
EP2028302-M16	EP2028305-M16	M 16	2	110	25	68	12	9	12	4

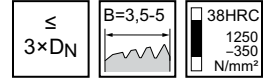
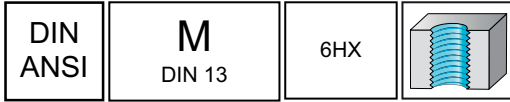
HSS-E machine taps

TD217 Advance inch

Thread-tec™ Omni



– Universal taps



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN-ANSI		Designation	D _N	P mm	l ₁ inch	L _c inch	l ₃ inch	d ₁ h9 inch	□ inch	l _g inch	N	WY80FC
	★	TD217.M3-C0-	M 3	0.5	2.205	0.354	0.638	0.141	0.110	0.190	2	☒
	★	TD217.M4-C0-	M 4	0.7	2.480	0.472	0.756	0.168	0.131	0.250	3	☒
	★	TD217.M5-C0-	M 5	0.8	2.756	0.512	0.890	0.194	0.152	0.250	3	☒
	★	TD217.M6-C0-	M 6	1.0	3.150	0.591	1.063	0.255	0.191	0.313	3	☒
	★	TD217.M8-C0-	M 8	1.25	3.543	0.709	1.299	0.318	0.238	0.380	3	☒
	★	TD217.M10-C0-	M 10	1.5	3.937	0.787	1.457	0.381	0.286	0.437	3	☒

Ordering example for the grade WY80FC: TD217.M10-C0-WY80FC

DIN-ANSI		Designation	D _N	P mm	l ₁ inch	L _c inch	l ₃ inch	d ₁ h9 inch	□ inch	l _g inch	N	WY80FC
	★	TD217.M12-L0-	M 12	1.75	4.331	0.906	1.535	0.367	0.275	0.437	3	☒
	★	TD217.M16-L0-	M 16	2	4.331	0.984	1.890	0.480	0.360	0.563	4	☒
	★	TD217.M20-L0-	M 20	2	5.512	1.181	2.362	0.652	0.489	0.690	4	☒

Ordering example for the grade WY80FC: TD217.M12-L0-WY80FC

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

C1

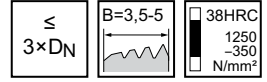
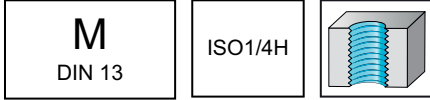
HSS-E machine taps

TD217 Advance

Thread-tec™ Omni

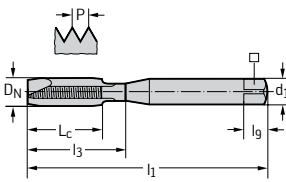


- Reduced number of grooves
- For long-chipping materials



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN 371



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80FC
★ TD217-M1,6-BN-	M 1.6	0.35	40	7	7	2.5	2.1	5	2	☒
★ TD217-M2-BN-	M 2	0.4	45	6	9	2.8	2.1	5	2	☒
★ TD217-M2,2-BN-	M 2.2	0.45	45	7	12	2.8	2.1	5	2	☒
★ TD217-M2,5-BN-	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2	☒
★ TD217-M3-BN-	M 3	0.5	56	9	16.2	3.5	2.7	6	2	☒
★ TD217-M3,5-BN-	M 3.5	0.6	56	11	18.2	4	3	6	2	☒
★ TD217-M4-BN-	M 4	0.7	63	12	19.2	4.5	3.4	6	2	☒
★ TD217-M5-BN-	M 5	0.8	70	13	22.6	6	4.9	8	2	☒
★ TD217-M6-BN-	M 6	1	80	15	27	6	4.9	8	2	☒
★ TD217-M8-BN-	M 8	1.25	90	18	32	8	6.2	9	3	☒
★ TD217-M10-BN-	M 10	1.5	100	20	35	10	8	11	3	☒

Ordering example for the grade WY80FC: TD217-M1,6-BN-WY80FC

C1

WALTER SELECT

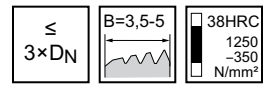
Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

●● Primary application ● Other application

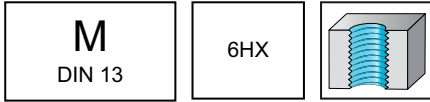
HSS-E machine taps

TD217 Advance mm

Thread-tec™ Omni



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (THL)	●	●●	●	●●			

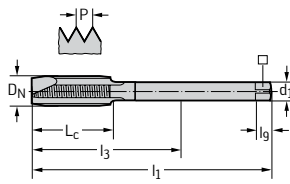
DIN 371		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC	WY80RG
<p>Parallel shank</p>	★	TD217-M1,7-C0-	M 1.7	0.35	40	7	7	2.5	2.1	5	2		☒	
	★	TD217-M1,8-C0-	M 1.8	0.35	40	7	7	2.5	2.1	5	2		☒	
	★	TD217-M2-C0-	M 2	0.4	45	6	9	2.8	2.1	5	3	☒	☒	☒
	★	TD217-M2,3-C0-	M 2.3	0.4	45	7	12	2.8	2.1	5	2		☒	
	★	TD217-M2,6-C0-	M 2.6	0.45	50	8	11.4	2.8	2.1	5	3		☒	
	★	TD217-M2,2-C0-	M 2.2	0.45	45	7	12	2.8	2.1	5	2	☒	☒	
	★	TD217-M2,5-C0-	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3	☒	☒	
	★	TD217-M3-C0-	M 3	0.5	56	9	16.2	3.5	2.7	6	3	☒	☒	☒
	★	TD217-M3,5-C0-	M 3.5	0.6	56	11	18.2	4	3	6	3	☒	☒	
	★	TD217-M4-C0-	M 4	0.7	63	12	19.2	4.5	3.4	6	3	☒	☒	☒
	★	TD217-M4,5-C0-	M 4.5	0.75	70	13	22.6	6	4.9	8	3		☒	
	★	TD217-M5-C0-	M 5	0.8	70	13	22.6	6	4.9	8	3	☒	☒	☒
	★	TD217-M6-C0-	M 6	1	80	15	27	6	4.9	8	3	☒	☒	☒
	★	TD217-M7-C0-	M 7	1	80	15	27	7	5.5	8	3	☒	☒	
	★	TD217-M8-C0-	M 8	1.25	90	18	32	8	6.2	9	3	☒	☒	☒
★	TD217-M10-C0-	M 10	1.5	100	20	35	10	8	11	3	☒	☒	☒	

Ordering example for the grade WY80FC: TD217-M1,7-C0-WY80FC

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

DIN 376



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC	WY80RG
★ TD217-M2-L0-	M 2	0.4	45	6	8.4	1.4	1.1	4	3		✘	
★ TD217-M2.5-L0-	M 2.5	0.45	50	8	11.6	1.8	1.4	4	3		✘	
★ TD217-M3-L0-	M 3	0.5	56	9	16.2	2.2	1.8	4	3		✘	
★ TD217-M4-L0-	M 4	0.7	63	12	19.2	2.8	2.1	5	3		✘	
★ TD217-M5-L0-	M 5	0.8	70	13	22.6	3.5	2.7	6	3	✘	✘	
★ TD217-M6-L0-	M 6	1	80	15	27	4.5	3.4	6	3	✘	✘	
★ TD217-M7-L0-	M 7	1	80	15	28	5.5	4.3	7	3		✘	
★ TD217-M8-L0-	M 8	1.25	90	18	33	6	4.9	8	3	✘	✘	
★ TD217-M9-L0-	M 9	1.25	90	18	33	7	5.5	8	3		✘	
★ TD217-M10-L0-	M 10	1.5	100	20	37	7	5.5	8	3	✘	✘	
★ TD217-M12-L0-	M 12	1.75	110	23	37	9	7	10	3	✘	✘	✘
★ TD217-M14-L0-	M 14	2	110	25	44	11	9	12	4	✘	✘	✘
★ TD217-M16-L0-	M 16	2	110	25	48	12	9	12	4	✘	✘	✘
★ TD217-M18-L0-	M 18	2.5	125	30	54	14	11	14	4	✘	✘	
★ TD217-M20-L0-	M 20	2.5	140	30	60	16	12	15	4	✘	✘	
★ TD217-M22-L0-	M 22	2.5	140	30	60	18	14.5	17	4		✘	
★ TD217-M24-L0-	M 24	3	160	36	69	18	14.5	17	4	✘	✘	
★ TD217-M27-L0-	M 27	3	160	36	69	20	16	19	4	✘	✘	
★ TD217-M30-L0-	M 30	3.5	180	42	78	22	18	21	4	✘	✘	
★ TD217-M33-L0-	M 33	3.5	180	42	78	25	20	23	4		✘	
★ TD217-M36-L0-	M 36	4	200	48	87	28	22	25	4	✘	✘	
★ TD217-M39-L0-	M 39	4	200	48	69	32	24	27	4		✘	
★ TD217-M42-L0-	M 42	4.5	200	54	72	32	24	27	4		✘	
★ TD217-M45-L0-	M 45	4.5	220	54	76	36	29	32	4		✘	
★ TD217-M48-L0-	M 48	5	250	60	86	36	29	32	4		✘	
★ TD217-M52-L0-	M 52	5	250	60	86	40	32	35	4		✘	
★ TD217-M56-L0-	M 56	5.5	250	66	90	40	32	35	4		✘	

Ordering example for the grade WY80AA: TD217-M10-L0-WY80AA

C1

HSS-E machine taps

TD217 Advance mm

Thread-tec™ Omni



- Reduced number of grooves
- For long-chipping materials

\leq
 $3 \times D_N$

B=3,5-5

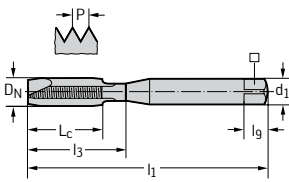
38HRC
 1250
 -350
 N/mm²

M
 DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			

DIN 371											WY80AA	WY80FC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N			
★ TD217-M1-CN-	M 1	0.25	40	5	5	2.5	2.1	5	2			☒
★ TD217-M1,2-CN-	M 1.2	0.25	40	5	5	2.5	2.1	5	2			☒
★ TD217-M1,4-CN-	M 1.4	0.3	40	7	6.5	2.5	2.1	5	2			☒
★ TD217-M1,6-CN-	M 1.6	0.35	40	7	7	2.5	2.1	5	2			☒
★ TD217-M2-CN-	M 2	0.4	45	6	9	2.8	2.1	5	2			☒
★ TD217-M2,6-CN-	M 2.6	0.45	50	8	11.4	2.8	2.1	5	2			☒
★ TD217-M2,5-CN-	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2			☒
★ TD217-M3-CN-	M 3	0.5	56	9	16.2	3.5	2.7	6	2			☒
★ TD217-M3,5-CN-	M 3.5	0.6	56	11	18.2	4	3	6	2			☒
★ TD217-M4-CN-	M 4	0.7	63	12	19.2	4.5	3.4	6	2			☒
★ TD217-M4,5-CN-	M 4.5	0.75	70	13	22.6	6	4.9	8	2			☒
★ TD217-M5-CN-	M 5	0.8	70	13	22.6	6	4.9	8	2			☒
★ TD217-M6-CN-	M 6	1	80	15	27	6	4.9	8	2			☒



Parallel shank

Ordering example for the grade WY80FC: TD217-M1-CN-WY80FC

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E machine taps
TD217 Advance mm
Thread-tec™ Omni

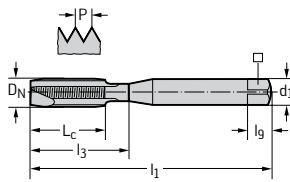


- For long-chipping materials



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN 371

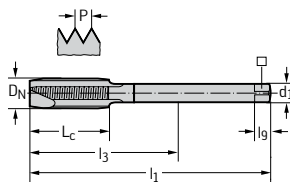


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80FC
★ TD217-M2-CL-	M 2	0.4	45	6	9	2.8	2.1	5	2	☒
★ TD217-M3-CL-	M 3	0.5	56	9	16.2	3.5	2.7	6	2	☒
★ TD217-M4-CL-	M 4	0.7	63	12	19.2	4.5	3.4	6	3	☒
★ TD217-M5-CL-	M 5	0.8	70	13	22.6	6	4.9	8	3	☒
★ TD217-M6-CL-	M 6	1	80	15	27	6	4.9	8	3	☒
★ TD217-M8-CL-	M 8	1.25	90	18	32	8	6.2	9	3	☒
★ TD217-M10-CL-	M 10	1.5	100	20	35	10	8	11	3	☒

Ordering example for the grade WY80FC: TD217-M10-CL-WY80FC

DIN 376



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80FC
★ TD217-M12-LL-	M 12	1.75	110	23	37	9	7	10	3	☒
★ TD217-M16-LL-	M 16	2	110	25	48	12	9	12	4	☒
★ TD217-M20-LL-	M 20	2.5	140	30	60	16	12	15	4	☒

Ordering example for the grade WY80FC: TD217-M12-LL-WY80FC

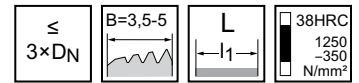
HSS-E machine taps

TD217 Advance

Thread-tec™ Omni



– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			

~DIN 371 L

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80FC
★ TD217-M3-CG-	M 3	0.5	112	9	16.2	3.5	2.7	6	3	☒	☒
★ TD217-M4-CG-	M 4	0.7	112	12	19.2	4.5	3.4	6	3	☒	☒
★ TD217-M5-CG-	M 5	0.8	125	13	22.6	6	4.9	8	3	☒	☒
★ TD217-M6-CG-	M 6	1	125	15	27	6	4.9	8	3	☒	☒
★ TD217-M8-CG-	M 8	1.25	140	18	33	8	6.2	9	3	☒	☒
★ TD217-M10-CG-	M 10	1.5	160	20	38	10	8	11	3	☒	☒

Parallel shank

Ordering example for the grade WY80AA: TD217-M10-CG-WY80AA

~DIN 376 L

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80FC
★ TD217-M3-LG-	M 3	0.5	112	9	16.2	2.2	1.8	4	3		☒
★ TD217-M4-LG-	M 4	0.7	112	12	19.2	2.8	2.1	5	3		☒
★ TD217-M5-LG-	M 5	0.8	125	13	22.6	3.5	2.7	6	3	☒	☒
★ TD217-M6-LG-	M 6	1	125	15	27	4.5	3.4	6	3	☒	☒
★ TD217-M8-LG-	M 8	1.25	140	18	38	6	4.9	8	3	☒	☒
★ TD217-M10-LG-	M 10	1.5	160	20	47	7	5.5	8	3	☒	☒
★ TD217-M12-LG-	M 12	1.75	180	23	37	9	7	10	3	☒	☒
★ TD217-M14-LG-	M 14	2	180	25	43	11	9	12	4	☒	☒
★ TD217-M16-LG-	M 16	2	200	25	48	12	9	12	4	☒	☒
★ TD217-M20-LG-	M 20	2.5	224	30	60	16	12	15	4	☒	☒

Parallel shank

Ordering example for the grade WY80AA: TD217-M10-LG-WY80AA

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

C1

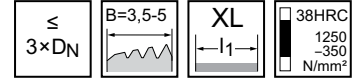
HSS-E machine taps

TD217 Advance mm

Thread-tec™ Omni



– For long-chipping materials



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

~DIN 371 XL

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80FC
★ TD217-M4-CH-	M 4	0.7	125	12	19.2	4.5	3.4	6	3	☒
★ TD217-M5-CH-	M 5	0.8	140	13	22.6	6	4.9	8	3	☒
★ TD217-M6-CH-	M 6	1	160	15	27	6	4.9	8	3	☒

Parallel shank

Ordering example for the grade WY80FC: TD217-M4-CH-WY80FC

~DIN 376 XL

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80FC
★ TD217-M8-LH-	M 8	1.25	180	18	33	6	4.9	8	3	☒
★ TD217-M10-LH-	M 10	1.5	200	20	37	7	5.5	8	3	☒
★ TD217-M12-LH-	M 12	1.75	220	23	37	9	7	10	3	☒
★ TD217-M14-LH-	M 14	2	220	25	43	11	9	12	4	☒
★ TD217-M16-LH-	M 16	2	220	25	48	12	9	12	4	☒
★ TD217-M20-LH-	M 20	2.5	280	30	60	16	12	15	4	☒

Parallel shank

Ordering example for the grade WY80FC: TD217-M10-LH-WY80FC

HSS-E machine taps

TD217 Advance mm

Thread-tec™ Omni



– For long-chipping materials

$\leq 3 \times D_N$

38HRC
1250
-350
N/mm ²

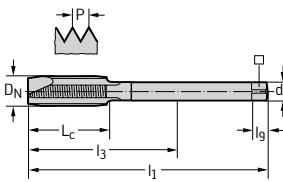
M

DIN 13

ISO3/6G

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			

DIN 376

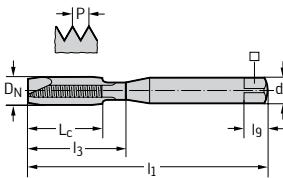


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80FC
★ TD217-M5-N0-	M 5	0.8	70	13	22.6	3.5	2.7	6	3	✖
★ TD217-M6-N0-	M 6	1	80	15	27	4.5	3.4	6	3	✖
★ TD217-M8-N0-	M 8	1.25	90	18	33	6	4.9	8	3	✖
★ TD217-M10-N0-	M 10	1.5	100	20	37	7	5.5	8	3	✖
★ TD217-M12-N0-	M 12	1.75	110	23	37	9	7	10	3	✖
★ TD217-M14-N0-	M 14	2	110	25	44	11	9	12	4	✖
★ TD217-M16-N0-	M 16	2	110	25	48	12	9	12	4	✖
★ TD217-M20-N0-	M 20	2.5	140	30	60	16	12	15	4	✖
★ TD217-M24-N0-	M 24	3	160	36	69	18	14.5	17	4	✖

Ordering example for the grade WY80FC: TD217-M10-N0-WY80FC

DIN 371



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80FC
★ TD217-M2,5-E0-	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3		✖
★ TD217-M3-E0-	M 3	0.5	56	9	16.2	3.5	2.7	6	3	✖	✖
★ TD217-M3,5-E0-	M 3.5	0.6	56	11	18.2	4	3	6	3		✖
★ TD217-M4-E0-	M 4	0.7	63	12	19.2	4.5	3.4	6	3	✖	✖
★ TD217-M5-E0-	M 5	0.8	70	13	22.6	6	4.9	8	3	✖	✖
★ TD217-M6-E0-	M 6	1	80	15	27	6	4.9	8	3	✖	✖
★ TD217-M7-E0-	M 7	1	80	15	27	7	5.5	8	3	✖	✖
★ TD217-M8-E0-	M 8	1.25	90	18	32	8	6.2	9	3	✖	✖
★ TD217-M10-E0-	M 10	1.5	100	20	35	10	8	11	3	✖	✖

Ordering example for the grade WY80AA: TD217-M10-E0-WY80AA

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

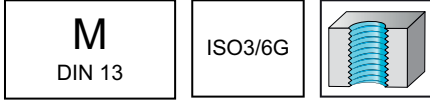
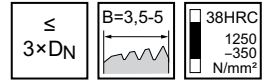
HSS-E machine taps

TD217 Advance mm

Thread-tec™ Omni

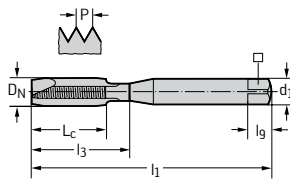


- Reduced number of grooves
- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			

DIN 371



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
★ TD217-M2-EN-	M 2	0.4	45	6	10	2.8	2.1	5	2	☒	☒
★ TD217-M2,3-EN-	M 2.3	0.4	45	7	11.4	2.8	2.1	5	2		☒
★ TD217-M2,5-EN-	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2	☒	☒
★ TD217-M2,6-EN-	M 2.6	0.45	50	8	12.8	2.8	2.1	5	2		☒
★ TD217-M3-EN-	M 3	0.5	56	9	16.2	3.5	2.7	6	2	☒	☒
★ TD217-M3,5-EN-	M 3.5	0.6	56	11	18.2	4	3	6	2	☒	☒
★ TD217-M4-EN-	M 4	0.7	63	12	19.2	4.5	3.4	6	2	☒	☒
★ TD217-M5-EN-	M 5	0.8	70	13	22.6	6	4.9	8	2	☒	☒

Ordering example for the grade WY80AA: TD217-M2-EN-WY80AA

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

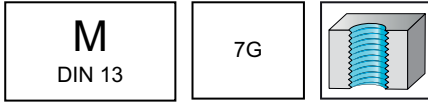
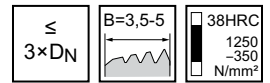
HSS-E machine taps

TD217 Advance mm

Thread-tec™ Omni

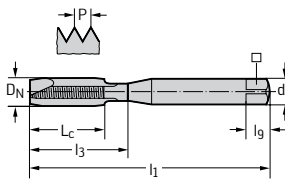


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			

DIN 371

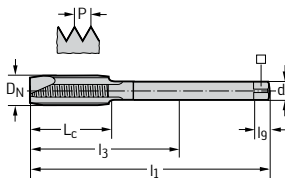


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
★ TD217-M2-F0-	M 2	0.4	45	6	10	2.8	2.1	5	2	☒	☒
★ TD217-M2,5-F0-	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3	☒	☒
★ TD217-M2,6-F0-	M 2.6	0.45	50	8	12.8	2.8	2.1	5	2		☒
★ TD217-M3-F0-	M 3	0.5	56	9	16.2	3.5	2.7	6	3	☒	☒
★ TD217-M3,5-F0-	M 3.5	0.6	56	11	18.2	4	3	6	2	☒	☒
★ TD217-M4-F0-	M 4	0.7	63	12	19.2	4.5	3.4	6	3	☒	☒
★ TD217-M5-F0-	M 5	0.8	70	13	22.6	6	4.9	8	3	☒	☒
★ TD217-M6-F0-	M 6	1	80	15	27	6	4.9	8	3	☒	☒
★ TD217-M8-F0-	M 8	1.25	90	18	32	8	6.2	9	3	☒	☒
★ TD217-M10-F0-	M 10	1.5	100	20	35	10	8	11	3	☒	☒

Ordering example for the grade WY80AA: TD217-M10-F0-WY80AA

DIN 376



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
★ TD217-M12-P0-	M 12	1.75	110	23	37	9	7	10	3	☒	☒
★ TD217-M16-P0-	M 16	2	110	25	48	12	9	12	4	☒	☒
★ TD217-M20-P0-	M 20	2.5	140	30	60	16	12	15	4	☒	☒

Ordering example for the grade WY80AA: TD217-M12-P0-WY80AA

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E machine taps

TC216 Perform



- For long-chipping materials

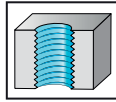
\leq
3×DN

B=3,5-5

32HRC
 1000-350
 N/mm²

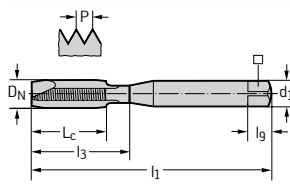
M
DIN 13

ISO2/6H



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			
WY80FC (VAP)	●●	●●	●●	●●			

DIN 371

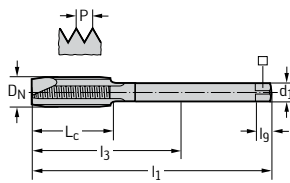


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
TC216-M1,6-C0-	M 1.6	0.35	40	7	7	2.5	2.1	5	2	●●	●●
TC216-M2-C0-	M 2	0.4	45	6	9	2.8	2.1	5	2	●●	●●
TC216-M2,5-C0-	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2	●●	●●
TC216-M3-C0-	M 3	0.5	56	9	18	3.5	2.7	6	2	●●	●●
TC216-M4-C0-	M 4	0.7	63	12	21	4.5	3.4	6	3	●●	●●
TC216-M5-C0-	M 5	0.8	70	13	25	6	4.9	8	3	●●	●●
TC216-M6-C0-	M 6	1	80	15	30	6	4.9	8	3	●●	●●
TC216-M8-C0-	M 8	1.25	90	18	35	8	6.2	9	3	●●	●●
TC216-M10-C0-	M 10	1.5	100	20	39	10	8	11	3	●●	●●

Ordering example for the grade WY80AA: TC216-M1,6-C0-WY80AA

DIN 376



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
TC216-M12-L0-	M 12	1.75	110	23	83	9	7	10	3	●●	●●
TC216-M14-L0-	M 14	2	110	25	81	11	9	12	4	●●	●●
TC216-M16-L0-	M 16	2	110	25	68	12	9	12	4	●●	●●
TC216-M20-L0-	M 20	2.5	140	30	95	16	12	15	4	●●	●●

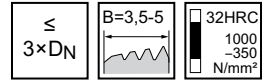
Ordering example for the grade WY80AA: TC216-M12-L0-WY80AA

HSS-E tap set 1


TC216 Perform



- Universal tap set



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			
WY80FC (VAP)	●●	●●	●●	●●			

Tool	Designation	Tap D _N	Quantity	WY80AA	WY80FC
				☒	☒
	TC216-SET1-M3-M12-	M 3 - M 12	7	☒	
	TC216-SET1-M3-M12-	M 3 - M 12	7		☒

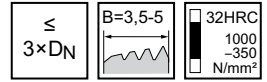
C1

HSS-E tap set 2

TC216 Perform

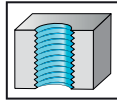


- Universal tap set
- Incl. Core-hole drill



M
DIN 13

ISO2/6H



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			
WY80FC (VAP)	●●	●●	●●	●●			

Tool



Designation	Tap D _N	Drill Dia. mm	Quantity	WY80AA	WY80FC
TC216-SET2-M3-M12-	M 3 – M 12	2.5-10.2	14	☒	
TC216-SET2-M3-M12-	M 3 – M 12	2.5-10.2	14		☒

C1

HSS-E machine taps

mm

Prototex® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)

$\leq 3 \times D_N$

$B=3,5-5$

44HRC
1400
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●		●●
TIN	●●	●●	●●	●●	●●		●●

~DIN 371	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	S2021302-M2	S2021305-M2	M 2	0.4	70	4	9	6	4.9	8	3
	S2021302-M2,5	S2021305-M2,5	M 2.5	0.45	70	5	12.5	6	4.9	8	3
	S2021302-M3	S2021305-M3	M 3	0.5	70	5	18	6	4.9	8	3
	S2021302-M4	S2021305-M4	M 4	0.7	70	7	21	6	4.9	8	3
	S2021302-M5	S2021305-M5	M 5	0.8	70	8	25	6	4.9	8	3
	S2021302-M6	S2021305-M6	M 6	1	80	10	30	6	4.9	8	3
	S2021302-M8	S2021305-M8	M 8	1.25	90	13	35	8	6.2	9	3
	S2021302-M10	S2021305-M10	M 10	1.5	100	15	39	10	8	11	3

~DIN 376	Designation THL	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	S2026302-M12	S2026305-M12	M 12	1.75	110	18	42	12	9	12	3
	S2026302-M14	S2026305-M14	M 14	2	110	20	49	14	11	14	3
	S2026302-M16	S2026305-M16	M 16	2	110	20	55	16	12	15	4
	S2026302-M20	S2026305-M20	M 20	2.5	140	25	95	16	12	15	4
	S2026302-M24	S2026305-M24	M 24	3	160	30	97	20	16	19	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

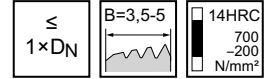
HSS-E machine taps

mm

Prototex® OS



- For long-chipping materials



DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	20211-M1	M 1	0.25	40	5	5	2.5	2.1	5	2
	20211-M1,2	M 1.2	0.25	40	5	5	2.5	2.1	5	2
	20211-M1,4	M 1.4	0.3	40	7	6.5	2.5	2.1	5	2
	20211-M1,6	M 1.6	0.35	40	7	7	2.5	2.1	5	2
	20211-M1,7	M 1.7	0.35	40	7	7	2.5	2.1	5	2
	20211-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
	20211-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
	20211-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
	20211-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
	20211-M5	M 5	0.8	70	13	25	6	4.9	8	2
	20211-M6	M 6	1	80	15	30	6	4.9	8	3
	20211-M8	M 8	1.25	90	18	35	8	6.2	9	3
	20211-M10	M 10	1.5	100	20	39	10	8	11	3

≤ M 1.4: 5H

≤ M 1.8: Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

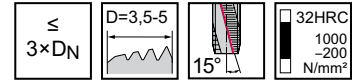
HSS-E machine taps

mm

Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	20411-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	20411-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	20411-M5	M 5	0.8	70	13	25	6	4.9	8	3
	20411-M6	M 6	1	80	15	30	6	4.9	8	3

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	20461-M6	M 6	1	80	15	59	4.5	3.4	6	3
	20461-M8	M 8	1.25	90	18	67	6	4.9	8	3
	20461-M10	M 10	1.5	100	20	77	7	5.5	8	3
	20461-M12	M 12	1.75	110	23	83	9	7	10	3

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert P

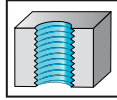


- Reduced number of grooves
- For long-chipping materials

$\leq 3 \times D_N$

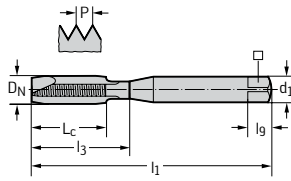
M
DIN 13

ISO1/4H



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371



Parallel shank

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
P20200-M1,6	M 1.6	0.35	40	7	7	2.5	2.1	5	2
P20200-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
P20200-M2,2	M 2.2	0.45	45	7	12	2.8	2.1	5	2
P20200-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
P20200-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
P20200-M3,5	M 3.5	0.6	56	11	20	4	3	6	2
P20200-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
P20200-M5	M 5	0.8	70	13	25	6	4.9	8	2
P20200-M6	M 6	1	80	15	30	6	4.9	8	2
P20200-M8	M 8	1.25	90	18	35	8	6.2	9	3
P20200-M10	M 10	1.5	100	20	39	10	8	11	3

M 1.6: Without reduced neck after the thread

C1

WALTER SELECT

 ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

Prototex® X-pert P



$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000
 ~200
 N/mm²

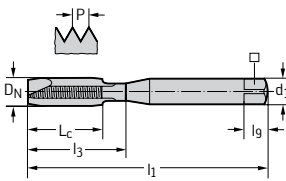
– For long-chipping materials

M
 DIN 13

ISO2/6H

	P	M	K	N	S	H	O
TICN	●●			●			●
TIN	●●			●			●
uncoated	●●			●			●

DIN 371

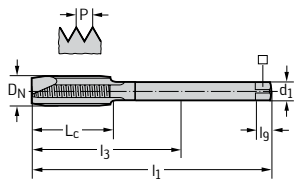


Parallel shank

Designation TICN	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_9 mm	l_9 mm	N
P2031006-M2	P2031005-M2	P20310-M2	M 2	0.4	45	6	9	2.8	2.1	5	3
	P2031005-M2,2	P20310-M2,2	M 2.2	0.45	45	7	12	2.8	2.1	5	3
P2031006-M2,5	P2031005-M2,5	P20310-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
P2031006-M3	P2031005-M3	P20310-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
		P20310-M3,5	M 3.5	0.6	56	11	20	4	3	6	3
P2031006-M4	P2031005-M4	P20310-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
P2031006-M5	P2031005-M5	P20310-M5	M 5	0.8	70	13	25	6	4.9	8	3
P2031006-M6	P2031005-M6	P20310-M6	M 6	1	80	15	30	6	4.9	8	3
	P2031005-M7	P20310-M7	M 7	1	80	15	30	7	5.5	8	3
P2031006-M8	P2031005-M8	P20310-M8	M 8	1.25	90	18	35	8	6.2	9	3
P2031006-M10	P2031005-M10	P20310-M10	M 10	1.5	100	20	39	10	8	11	3

l_9 dimensions in accordance with DIN 10

C1

DIN 376


Designation TiCN	Designation TiN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_2 mm	N	
		P20360-M2	M 2	0.4	45	6	26	1.4	1.1	4	3	
		P20360-M2,5	M 2.5	0.45	50	8	31	1.8	1.4	4	3	
		P20360-M3	M 3	0.5	56	9	37	2.2	1.8	4	3	
		P20360-M4	M 4	0.7	63	12	43	2.8	2.1	5	3	
		P20360-M5	M 5	0.8	70	13	49	3.5	2.7	6	3	
P2036006-M6	P2036005-M6	P20360-M6	M 6	1	80	15	59	4.5	3.4	6	3	
		P20360-M7	M 7	1	80	15	58	5.5	4.3	7	3	
P2036006-M8	P2036005-M8	P20360-M8	M 8	1.25	90	18	67	6	4.9	8	3	
		P20360-M9	M 9	1.25	90	18	67	7	5.5	8	3	
P2036006-M10	P2036005-M10	P20360-M10	M 10	1.5	100	20	77	7	5.5	8	3	
P2036006-M12	P2036005-M12	P20360-M12	M 12	1.75	110	23	83	9	7	10	3	
		P2036005-M14	P20360-M14	M 14	2	110	25	81	11	9	12	3
P2036006-M16	P2036005-M16	P20360-M16	M 16	2	110	25	68	12	9	12	3	
		P2036005-M18	P20360-M18	M 18	2.5	125	30	81	14	11	14	4
P2036006-M20	P2036005-M20	P20360-M20	M 20	2.5	140	30	95	16	12	15	4	
		P20360-M22	M 22	2.5	140	30	93	18	14.5	17	4	
P2036006-M24	P2036005-M24	P20360-M24	M 24	3	160	36	113	18	14.5	17	4	
		P2036005-M27	P20360-M27	M 27	3	160	36	97	20	16	19	4
P2036006-M30	P2036005-M30	P20360-M30	M 30	3.5	180	42	115	22	18	21	4	
		P20360-M33	M 33	3.5	180	42	113	25	20	23	4	
		P2036005-M36	P20360-M36	M 36	4	200	48	131	28	22	25	4
		P20360-M39	M 39	4	200	48	102	32	24	27	4	
		P20360-M42	M 42	4.5	200	54	102	32	24	27	4	
		P20360-M45	M 45	4.5	220	54	117	36	29	32	4	
		P20360-M48	M 48	5	250	60	147	36	29	32	4	
		P20360-M52	M 52	5	250	60	120	40	32	35	4	
		P20360-M56	M 56	5.5	250	66	120	40	32	35	4	

l_2 dimensions in accordance with DIN 10

C1

HSS-E machine taps

mm

Prototex® X-pert P



- Reduced number of grooves
- For long-chipping materials

$\leq 3 \times D_N$

B=3,5-5

32HRC
1000-200 N/mm²

M
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●

DIN 371		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>			P20210-M1	M 1	0.25	40	5	5	2.5	2.1	5	2
		P2021005-M1,2	P20210-M1,2	M 1.2	0.25	40	5	5	2.5	2.1	5	2
		P2021005-M1,4	P20210-M1,4	M 1.4	0.3	40	7	6.5	2.5	2.1	5	2
		P2021005-M1,6	P20210-M1,6	M 1.6	0.35	40	7	7	2.5	2.1	5	2
			P20210-M1,8	M 1.8	0.35	40	7	7	2.5	2.1	5	2
		P2021005-M2	P20210-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
			P20210-M2,2	M 2.2	0.45	45	7	12	2.8	2.1	5	2
			P20210-M2,3	M 2.3	0.4	45	7	12	2.8	2.1	5	2
		P2021005-M2,5	P20210-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
			P20210-M2,6	M 2.6	0.45	50	8	12.5	2.8	2.1	5	2
		P2021005-M3	P20210-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
		P2021005-M3,5	P20210-M3,5	M 3.5	0.6	56	11	20	4	3	6	2
		P2021005-M4	P20210-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
			P20210-M4,5	M 4.5	0.75	70	13	25	6	4.9	8	2
		P2021005-M5	P20210-M5	M 5	0.8	70	13	25	6	4.9	8	2
		P2021005-M6	P20210-M6	M 6	1	80	15	30	6	4.9	8	2

- ≤ M 1.4: 5H
- ≤ M 1.8: Without reduced neck after the thread
- ≤ M 1.6: Without reduced neck after the thread

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

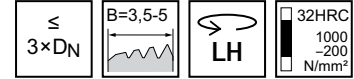
HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P202108-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
	P202108-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
	P202108-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
	P202108-M5	M 5	0.8	70	13	25	6	4.9	8	2
	P202108-M6	M 6	1	80	15	30	6	4.9	8	3
	P202108-M8	M 8	1.25	90	18	35	8	6.2	9	3
	P202108-M10	M 10	1.5	100	20	39	10	8	11	3

C1

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P202608-M12	M 12	1.75	110	23	83	9	7	10	3
	P202608-M16	M 16	2	110	25	68	12	9	12	3
	P202608-M20	M 20	2.5	140	30	95	16	12	15	3

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

≤
3×DN

B=3,5-5

L

32HRC
1000
~200
N/mm²

M
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

~DIN 371 L	Designation	Designation	D _N	P	l ₁	L _c	l ₃	d ₁ h9	□	l _g	N
	TIN	uncoated									
<p>Parallel shank</p>	P2031035-M3	P203103-M3	M 3	0.5	112	9	18	3.5	2.7	6	3
	P2031035-M4	P203103-M4	M 4	0.7	112	12	21	4.5	3.4	6	3
	P2031035-M5	P203103-M5	M 5	0.8	125	13	25	6	4.9	8	3
	P2031035-M6	P203103-M6	M 6	1	125	15	30	6	4.9	8	3
	P2031035-M8	P203103-M8	M 8	1.25	140	18	40	8	6.2	9	3
	P2031035-M10	P203103-M10	M 10	1.5	160	20	50	10	8	11	3

~DIN 376 L	Designation	Designation	D _N	P	l ₁	L _c	l ₃	d ₁ h9	□	l _g	N
	TIN	uncoated									
<p>Parallel shank</p>		P203603-M3	M 3	0.5	112	9	86	2.2	1.8	4	3
		P203603-M4	M 4	0.7	112	12	92	2.8	2.1	5	3
	P2036035-M5	P203603-M5	M 5	0.8	125	13	104	3.5	2.7	6	3
	P2036035-M6	P203603-M6	M 6	1	125	15	104	4.5	3.4	6	3
	P2036035-M8	P203603-M8	M 8	1.25	140	18	117	6	4.9	8	3
	P2036035-M10	P203603-M10	M 10	1.5	160	20	137	7	5.5	8	3
	P2036035-M12	P203603-M12	M 12	1.75	180	23	153	9	7	10	3
	P2036035-M14	P203603-M14	M 14	2	180	25	151	11	9	12	3
	P2036035-M16	P203603-M16	M 16	2	200	25	158	12	9	12	3
	P2036035-M20	P203603-M20	M 20	2.5	224	30	179	16	12	15	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

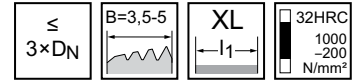
HSS-E machine taps

mm

Prototex® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

~DIN 371 XL		Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
		P202103-M4	M 4	0.7	125	12	21	4.5	3.4	6	3
		P202103-M5	M 5	0.8	140	13	25	6	4.9	8	3
		P202103-M6	M 6	1	160	15	30	6	4.9	8	3

Parallel shank

C1

~DIN 376 L		Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
		P202603-M8	M 8	1.25	180	18	157	6	4.9	8	3
		P202603-M10	M 10	1.5	200	20	177	7	5.5	8	3
		P202603-M12	M 12	1.75	220	23	193	9	7	10	3
		P202603-M14	M 14	2	220	25	191	11	9	12	3
		P202603-M16	M 16	2	220	25	178	12	9	12	3
		P202603-M20	M 20	2.5	280	30	235	16	12	15	4

Parallel shank

HSS-E machine taps

mm

Prototex® X-pert P AZ



- For long-chipping materials
- For thin-walled workpieces

≤
3×DN

B=3,5-5

32HRC
1000
-200
N/mm²

M
DIN 13

ISO2/6H

uncoated	P	M	K	N	S	H	O
	●●	●	●●	●●	●	●	●

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P40310-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	P40310-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	P40310-M5	M 5	0.8	70	13	25	6	4.9	8	3
	P40310-M6	M 6	1	80	15	30	6	4.9	8	3
	P40310-M8	M 8	1.25	90	18	35	8	6.2	9	3
	P40310-M10	M 10	1.5	100	20	39	10	8	11	3

Parallel shank

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P40360-M12	M 12	1.75	110	23	83	9	7	10	3
	P40360-M14	M 14	2	110	25	81	11	9	12	3
	P40360-M16	M 16	2	110	25	68	12	9	12	3
	P40360-M20	M 20	2.5	140	30	95	16	12	15	4

Parallel shank

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$
 $B=3,5-5$
 32HRC
 1000
 ~200
 N/mm²

M
 DIN 13
 ISO3/6G

	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 371

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
	P20330-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
	P20330-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	P20330-M3,5	M 3.5	0.6	56	11	20	4	3	6	3
	P20330-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	P20330-M5	M 5	0.8	70	13	25	6	4.9	8	3
P2033005-M6	P20330-M6	M 6	1	80	15	30	6	4.9	8	3
	P20330-M7	M 7	1	80	15	30	7	5.5	8	3
P2033005-M8	P20330-M8	M 8	1.25	90	18	35	8	6.2	9	3
P2033005-M10	P20330-M10	M 10	1.5	100	20	39	10	8	11	3

Parallel shank

DIN 376

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
	P20380-M5	M 5	0.8	70	13	49	3.5	2.7	6	3
	P20380-M6	M 6	1	80	15	59	4.5	3.4	6	3
	P20380-M8	M 8	1.25	90	18	67	6	4.9	8	3
	P20380-M10	M 10	1.5	100	20	77	7	5.5	8	3
	P20380-M12	M 12	1.75	110	23	83	9	7	10	3
	P20380-M14	M 14	2	110	25	81	11	9	12	3
	P20380-M16	M 16	2	110	25	68	12	9	12	3
	P20380-M20	M 20	2.5	140	30	95	16	12	15	4
	P20380-M24	M 24	3	160	36	113	18	14.5	17	4

Parallel shank

WALTER SELECT
 ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert P



- Reduced number of grooves
- For long-chipping materials

\leq
 $3 \times D_N$

B=3,5-5

32HRC
 1000
 -200
 N/mm²

M
 DIN 13

ISO3/6G

	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 371	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
<p>Parallel shank</p>	P2023005-M2	P20230-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
		P20230-M2,3	M 2.3	0.4	45	7	12	2.8	2.1	5	2
	P2023005-M2,5	P20230-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
		P20230-M2,6	M 2.6	0.45	50	8	12.5	2.8	2.1	5	2
	P2023005-M3	P20230-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
	P2023005-M3,5	P20230-M3,5	M 3.5	0.6	56	11	20	4	3	6	2
	P2023005-M4	P20230-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
	P2023005-M5	P20230-M5	M 5	0.8	70	13	25	6	4.9	8	2

C1

WALTER
 SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

Prototex® X-pert P



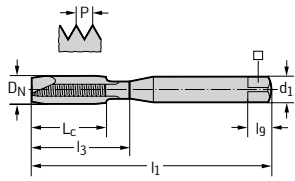
- For long-chipping materials

$\leq 3 \times D_N$ B=3,5-5 32HRC

M
 DIN 13 7G

	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

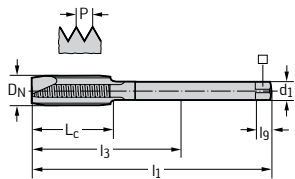
DIN 371



Parallel shank

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
P2034005-M2	P20340-M2	M 2	0.4	45	6	11	2.8	2.1	5	3
P2034005-M2,5	P20340-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3
	P20340-M2,6	M 2.6	0.45	50	8	14	2.8	2.1	5	3
P2034005-M3	P20340-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
P2034005-M3,5	P20340-M3,5	M 3.5	0.6	56	11	20	4	3	6	3
P2034005-M4	P20340-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
P2034005-M5	P20340-M5	M 5	0.8	70	13	25	6	4.9	8	3
P2034005-M6	P20340-M6	M 6	1	80	15	30	6	4.9	8	3
P2034005-M8	P20340-M8	M 8	1.25	90	18	35	8	6.2	9	3
P2034005-M10	P20340-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376



Parallel shank

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
P2039005-M12	P20390-M12	M 12	1.75	110	23	83	9	7	10	3
P2039005-M16	P20390-M16	M 16	2	110	25	68	12	9	12	3
P2039005-M20	P20390-M20	M 20	2.5	140	30	95	16	12	15	4

HSS-E machine taps

mm

Prototex® X-pert M



$\leq 3 \times D_N$

$B=3,5-5$

36HRC
 1200
 -700
 N/mm²

- For long-chipping materials

M
 DIN 13

6HX

	P	M	K	N	S	H	O
TICN	●	●●	●	●	●	●	●
TIN	●	●●	●	●	●	●	●
VAP	●	●●	●	●	●	●	●

DIN 371		Designation TICN	Designation TIN	Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
				M20213-M1	M 1	0.25	40	5	5	2.5	2.1	5	2
				M20213-M1,2	M 1.2	0.25	40	5	5	2.5	2.1	5	2
				M20213-M1,4	M 1.4	0.3	40	7	6.5	2.5	2.1	5	2
				M20213-M1,6	M 1.6	0.35	40	7	7	2.5	2.1	5	2
				M20213-M1,7	M 1.7	0.35	40	7	7	2.5	2.1	5	2
				M20213-M1,8	M 1.8	0.35	40	7	7	2.5	2.1	5	2
		M2021306-M2	M2021305-M2	M20213-M2	M 2	0.40	45	6	9	2.8	2.1	5	2
				M20213-M2,2	M 2.2	0.45	45	7	12	2.8	2.1	5	2
				M20213-M2,3	M 2.3	0.4	45	7	12	2.8	2.1	5	2
		M2021306-M2,5	M2021305-M2,5	M20213-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
			M20213-M2,6	M 2.6	0.45	50	8	12.5	2.8	2.1	5	2	
	M2021306-M3	M2021305-M3	M20213-M3	M 3	0.5	56	9	18	3.5	2.7	6	2	
	M2021306-M3,5	M2021305-M3,5	M20213-M3,5	M 3.5	0.6	56	11	20	4	3	6	2	
	M2021306-M4	M2021305-M4	M20213-M4	M 4	0.7	63	12	21	4.5	3.4	6	3	
			M20213-M4,5	M 4.5	0.75	70	13	25	6	4.9	8	3	
	M2021306-M5	M2021305-M5	M20213-M5	M 5	0.8	70	13	25	6	4.9	8	3	
	M2021306-M6	M2021305-M6	M20213-M6	M 6	1	80	15	30	6	4.9	8	3	
			M20213-M7	M 7	1	80	15	30	7	5.5	8	3	
	M2021306-M8	M2021305-M8	M20213-M8	M 8	1.25	90	18	35	8	6.2	9	3	
	M2021306-M10	M2021305-M10	M20213-M10	M 10	1.5	100	20	39	10	8	11	3	

≤ M 1.4: 5HX
 ≤ M 1.8: Without reduced neck after the thread
 l_g dimensions in accordance with DIN 10

DIN 376		Designation TICN	Designation TIN	Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
				M20263-M5	M 5	0.8	70	13	49	3.5	2.7	6	3
				M20263-M6	M 6	1	80	15	59	4.5	3.4	6	3
				M20263-M8	M 8	1.25	90	18	67	6	4.9	8	3
				M20263-M10	M 10	1.5	100	20	77	7	5.5	8	3
		M2026306-M12	M2026305-M12	M20263-M12	M 12	1.75	110	23	83	9	7	10	4
		M2026306-M14	M2026305-M14	M20263-M14	M 14	2	110	25	81	11	9	12	4
		M2026306-M16	M2026305-M16	M20263-M16	M 16	2	110	25	68	12	9	12	4
				M20263-M18	M 18	2.5	125	30	81	14	11	14	4
		M2026306-M20	M2026305-M20	M20263-M20	M 20	2.5	140	30	95	16	12	15	4
				M20263-M22	M 22	2.5	140	30	93	18	14.5	17	4
	M2026306-M24		M20263-M24	M 24	3	160	36	113	18	14.5	17	4	
			M20263-M27	M 27	3	160	36	97	20	16	19	4	
			M20263-M30	M 30	3.5	180	42	115	22	18	21	4	
			M20263-M33	M 33	3.5	180	42	113	25	20	23	5	
			M20263-M36	M 36	4	200	48	131	28	22	25	5	

l_g dimensions in accordance with DIN 10

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert M



- For long-chipping materials

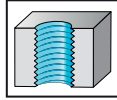
\leq
3×DN

B=3,5-5

36HRC
 1200
 -700
 N/mm²

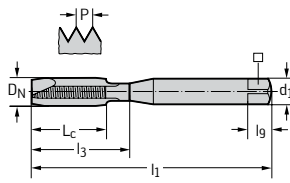
M
DIN 13

6GX



	P	M	K	N	S	H	O
TICN	●	●●	●	●	●	●	●
VAP	●	●●	●	●	●	●	●

DIN 371



Parallel shank

Designation TICN	Designation VAP	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
M2023306-M3	M20233-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
M2023306-M4	M20233-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
M2023306-M5	M20233-M5	M 5	0.8	70	13	25	6	4.9	8	3
M2023306-M6	M20233-M6	M 6	1	80	15	30	6	4.9	8	3
M2023306-M7	M20233-M7	M 7	1	80	15	30	7	5.5	8	3
M2023306-M8	M20233-M8	M 8	1.25	90	18	35	8	6.2	9	3
M2023306-M10	M20233-M10	M 10	1.5	100	20	39	10	8	11	3

C1

HSS-E machine taps

mm

Prototex® X-pert N



- For long-chipping materials

M
DIN 13

ISO2/6H

$\leq 3 \times D_N$

B=3,5-5

14HRC
700
-200
N/mm²

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	N20219-M2	M 2	0.4	45	6	9	2.8	2.1	5	2
	N20219-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	2
	N20219-M3	M 3	0.5	56	9	18	3.5	2.7	6	2
	N20219-M4	M 4	0.7	63	12	21	4.5	3.4	6	2
	N20219-M5	M 5	0.8	70	13	25	6	4.9	8	2
	N20219-M6	M 6	1	80	15	30	6	4.9	8	3
	N20219-M8	M 8	1.25	90	18	35	8	6.2	9	3
	N20219-M10	M 10	1.5	100	20	39	10	8	11	3

C1

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

$\leq 2 \times D_N$
 $B=3,5-5$
 44HRC
 1400-700 N/mm²

M
 DIN 13
 4HX

uncoated
 P ● ●
 M ● ●
 K
 N ●
 S ● ●
 H
 O

~DIN 371

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
202061-M2	M 2	0.4	45	8	8	2.8	2.1	5	2
202061-M2,5	M 2.5	0.45	50	9	9	2.8	2.1	5	2
202061-M3	M 3	0.5	56	10	10	3.5	2.7	6	2
202061-M3,5	M 3.5	0.6	56	12	12	4	3	6	3
202061-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
202061-M5	M 5	0.8	70	16	16	6	4.9	8	3
202061-M6	M 6	1	80	15	23	6	4.9	8	3
202061-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
202061-M10	M 10	1.5	100	20	33.5	10	8	11	3

Parallel shank

C1

WALTER SELECT
 ●● Primary application
 ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials

$\leq 2 \times D_N$

$B=3,5-5$

44HRC
1400-700 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TiCN	●●	●●	●●	●●	●●	●●	●●
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 371		Designation TiCN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>		202161-M1	M 1	0.25	40	5	5	2.5	2.1	5	2	
		202161-M1,2	M 1.2	0.25	40	5	5	2.5	2.1	5	2	
		202161-M1,4	M 1.4	0.3	40	5	5	2.5	2.1	5	2	
		202161-M1,6	M 1.6	0.35	40	5	5	2.5	2.1	5	2	
		202161-M1,8	M 1.8	0.35	40	5	5	2.5	2.1	5	2	
		2021616-M2	202161-M2	M 2	0.4	45	8	8	2.8	2.1	5	2
		202161-M2,2	M 2.2	0.45	45	8	8	2.8	2.1	5	2	
		2021616-M2,5	202161-M2,5	M 2.5	0.45	50	9	9	2.8	2.1	5	2
		2021616-M3	202161-M3	M 3	0.5	56	10	10	3.5	2.7	6	2
		2021616-M3,5	202161-M3,5	M 3.5	0.6	56	12	12	4	3	6	3
		2021616-M4	202161-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
		202161-M4,5	M 4.5	0.75	70	13	13	6	4.9	8	3	
		2021616-M5	202161-M5	M 5	0.8	70	16	16	6	4.9	8	3
		2021616-M6	202161-M6	M 6	1	80	15	23	6	4.9	8	3
	2021616-M8	202161-M8	M 8	1.25	90	18	29.5	8	6.2	9	3	
	2021616-M10	202161-M10	M 10	1.5	100	20	33.5	10	8	11	3	

≤ M 1.4: 5HX

DIN 376		Designation TiCN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>		2026616-M12	202661-M12	M 12	1.75	110	23	83	9	7	10	4
		2026616-M14	202661-M14	M 14	2	110	25	81	11	9	12	4
		2026616-M16	202661-M16	M 16	2	110	25	68	12	9	12	4
		2026616-M20	202661-M20	M 20	2.5	140	30	95	16	12	15	4
		2026616-M24	202661-M24	M 24	3	160	36	113	18	14.5	17	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi Plus



- Recommended with emulsion
- For long-chipping materials

$\leq 2 \times D_N$

M
DIN 13

6HX

	P	M	K	N	S	H	O
ACN					●●		

~DIN 371

Designation ACN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
2021763-M2	M 2	0.4	45	8	8	2.8	2.1	5	2
2021763-M2,5	M 2.5	0.45	50	9	9	2.8	2.1	5	2
2021763-M3	M 3	0.5	56	10	10	3.5	2.7	6	2
2021763-M3,5	M 3.5	0.6	56	12	12	4	3	6	3
2021763-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
2021763-M5	M 5	0.8	70	16	16	6	4.9	8	3
2021763-M6	M 6	1	80	15	23	6	4.9	8	3
2021763-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
2021763-M10	M 10	1.5	100	20	33.5	10	8	11	3

Parallel shank

DIN 376

Designation ACN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
2026763-M12	M 12	1.75	110	23	83	9	7	10	4
2026763-M16	M 16	2	110	25	68	12	9	12	4
2026763-M20	M 20	2.5	140	30	95	16	12	15	4

Parallel shank

C1

WALTER SELECT

 ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Prototex® Sprint



- For long-chipping materials

\leq
 $3 \times D_N$

B=3,5-5

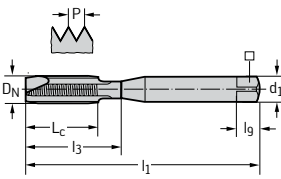
36HRC
 1200
 -350
 N/mm²

M
 DIN 13

ISO2/6H

	P	M	K	N	S	H	O
TICN	●	●	●	●	●	●	●
TIN	●	●	●	●	●	●	●

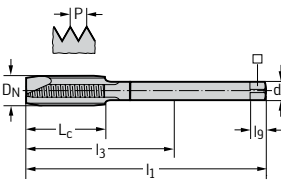
DIN 371



Parallel shank

Designation TICN	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
7021366-M3	7021365-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
7021366-M4	7021365-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
7021366-M5	7021365-M5	M 5	0.8	70	13	25	6	4.9	8	3
7021366-M6	7021365-M6	M 6	1	80	15	30	6	4.9	8	3
7021366-M8	7021365-M8	M 8	1.25	90	18	35	8	6.2	9	3
7021366-M10	7021365-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376



Parallel shank

Designation TICN	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
	7026365-M12	M 12	1.75	110	23	83	9	7	10	3
	7026365-M14	M 14	2	110	25	81	11	9	12	3
	7026365-M16	M 16	2	110	25	68	12	9	12	3
	7026365-M20	M 20	2.5	140	30	95	16	12	15	3

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

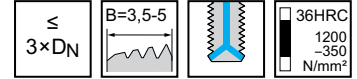
HSS-E PM machine taps

mm

Prototex® Megasprint



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●		●			

DIN 371	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	TIN									
	7021345-M6	M 6	1	80	15	30	6	4.9	8	3
	7021345-M8	M 8	1.25	90	18	35	8	6.2	9	3
	7021345-M10	M 10	1.5	100	20	39	10	8	11	3

Parallel shank

C1

DIN 376	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	TIN									
	7026345-M16	M 16	2	110	25	68	12	9	12	3
	7026345-M20	M 20	2.5	140	30	95	16	12	15	3

Parallel shank

HSS-E machine taps

mm

Paradur® Combi



– For long-chipping materials

M
DIN 13

ISO2/6H

$\leq 1,5 \times D_N$

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●		●	●			

Tool	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	d _s mm	l _s mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
<p>Parallel shank</p>	20417-M3	M 3	0.5	65	11	2.5	63	21	4	2.7	6	2
Tool	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	d _s mm	l _s mm	l ₃ mm	d ₁ mm	□ mm	l _g mm	N
<p>Parallel shank</p>	20467-M10	M 10	1.5	100	17	8.5	100	77	7	5.5	8	4

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

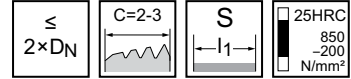
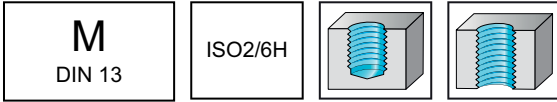
HSS hand-held tap set

mm

HGB

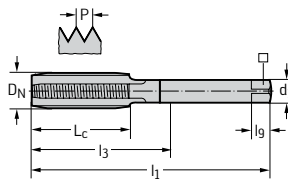


- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

DIN 352



Parallel shank

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
30060-M2	M 2	0.4	36	8	8	2.8	2.1	5	3
30060-M2,5	M 2.5	0.45	40	9	9	2.8	2.1	5	3
30060-M3	M 3	0.5	40	9	13.5	3.5	2.7	6	3
30060-M4	M 4	0.7	45	11	16.5	4.5	3.4	6	3
30060-M5	M 5	0.8	50	13	19	6	4.9	8	3
30060-M6	M 6	1	56	15	27	6	4.9	8	3
30060-M8	M 8	1.25	63	19	40	6	4.9	8	3
30060-M10	M 10	1.5	70	22	47	7	5.5	8	3
30060-M12	M 12	1.75	75	25	48	9	7	10	4
30060-M16	M 16	2	80	25	38	12	9	12	4
30060-M20	M 20	2.5	95	32	50	16	12	15	4
30060-M24	M 24	3	110	34	63	18	14.5	17	4
30060-M30	M 30	3.5	125	40	60	22	18	21	4

Ordering code includes initial, intermediate and final cutter.
 ≤ M 2.5: Without reduced neck after the thread

C1

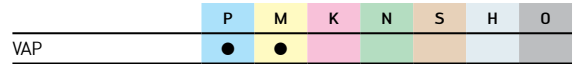
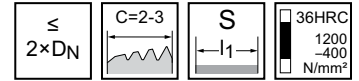
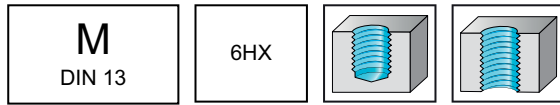
HSS-E hand-held tap set

mm

HGB Inox



– For long-chipping materials



DIN 352		Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
<p>Parallel shank</p>	30063-M2	M 2	0.4	36	8	7	2.8	2.1	5	3	
	30063-M2,5	M 2.5	0.45	40	9	7.9	2.8	2.1	5	3	
	30063-M3	M 3	0.5	40	9	7.8	3.5	2.7	6	3	
	30063-M4	M 4	0.7	45	11	9.3	4.5	3.4	6	3	
	30063-M5	M 5	0.8	50	13	11	6	4.9	8	3	
	30063-M6	M 6	1	56	15	12.5	6	4.9	8	3	
	30063-M8	M 8	1.25	63	19	15.9	6	4.9	8	3	
	30063-M10	M 10	1.5	70	22	18.3	7	5.5	8	4	
	30063-M12	M 12	1.75	75	25	20.6	9	7	10	4	
	30063-M16	M 16	2	80	25	20	12	9	12	4	
	30063-M20	M 20	2.5	95	32	25.8	16	12	15	4	
	30063-M24	M 24	3	110	34	26.5	18	14.5	17	4	
	30063-M30	M 30	3.5	125	40	31.3	22	18	21	4	

Ordering code includes initial, intermediate and final cutter.
 ≤ M 2.5: Without reduced neck after the thread

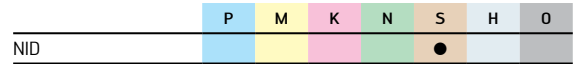
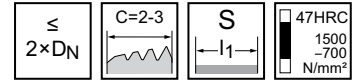
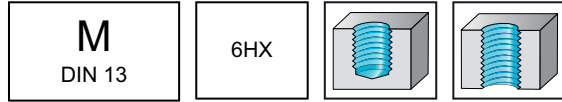
HSS-E hand-held tap set

mm

HGB Ti



- Nitrided
- For long-chipping materials



DIN 352		Designation NID	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	30016-M3	M 3	M 3	0.5	40	9	7.8	3.5	2.7	6	3
	30016-M4	M 4	M 4	0.7	45	11	9.3	4.5	3.4	6	3
	30016-M5	M 5	M 5	0.8	50	13	11	6	4.9	8	3
	30016-M6	M 6	M 6	1	56	15	12.5	6	4.9	8	3
	30016-M8	M 8	M 8	1.25	63	19	15.9	6	4.9	8	4
	30016-M10	M 10	M 10	1.5	70	22	18.3	7	5.5	8	4
	30016-M12	M 12	M 12	1.75	75	25	20.6	9	7	10	4

Parallel shank

Ordering code includes initial, intermediate and final cutter.

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E taps, short

mm

KMB WST



- For long-chipping materials

M
DIN 13

ISO2/6H

\leq
3×DN

C=2-3

S
|—|
l₁

40°

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●		●	●			

DIN 2184-2	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	20167-M3	M 3	0.5	40	6	13.5	3.5	2.7	6	3
	20167-M4	M 4	0.7	45	7	16.5	4.5	3.4	6	3
	20167-M5	M 5	0.8	50	8	19	6	4.9	8	3
	20167-M6	M 6	1	56	10	27	6	4.9	8	3
	20167-M8	M 8	1.25	63	12	40	6	4.9	8	3
	20167-M10	M 10	1.5	70	15	47	7	5.5	8	3
	20167-M12	M 12	1.75	75	16	48	9	7	10	3

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

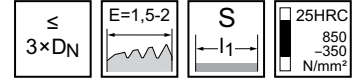
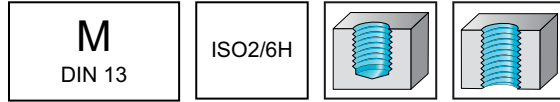
HSS-E taps, short

mm

KMB Ms



- For short-chipping materials



	P	M	K	N	S	H	O
uncoated				●●			●

DIN 2184-2		Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
	20165-M2	M 2	M 2	0.4	36	8	8	2.8	2.1	5	3
	20165-M2,5	M 2.5	M 2.5	0.45	40	9	9	2.8	2.1	5	3
	20165-M3	M 3	M 3	0.5	40	9	13.5	3.5	2.7	6	3
	20165-M3,5	M 3.5	M 3.5	0.6	45	10	15	4	3	6	3
	20165-M4	M 4	M 4	0.7	45	11	16.5	4.5	3.4	6	3
	20165-M5	M 5	M 5	0.8	50	13	19	6	4.9	8	3
	20165-M6	M 6	M 6	1	56	15	27	6	4.9	8	3
	20165-M8	M 8	M 8	M 8	1.25	63	19	40	6	4.9	8

≤ M 2.5: Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E taps, short

mm

KMB H



- For long-chipping materials

M

DIN 13

ISO2/6H

$\leq 3 \times DN$

$B=3,5-5$

S

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●		●●	●●			●

DIN 2184-2	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
<p style="font-size: 8px; margin-top: 5px;">Parallel shank</p>	20160-M3	M 3	0.5	40	9	13.5	3.5	2.7	6	3
	20160-M4	M 4	0.7	45	11	16.5	4.5	3.4	6	3
	20160-M5	M 5	0.8	50	13	19	6	4.9	8	3
	20160-M6	M 6	1	56	15	27	6	4.9	8	3
	20160-M8	M 8	1.25	63	19	40	6	4.9	8	3
	20160-M10	M 10	1.5	70	22	47	7	5.5	8	3
	20160-M12	M 12	1.75	75	25	48	9	7	10	3

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E nut taps

mm

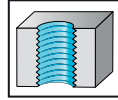
MMB



- For long-chipping materials

M
DIN 13

ISO2/6H



≤ 1×DN
28HRC
900
-200
N/mm²

uncoated P M K N S H O

DIN 357

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h12 mm	□ mm	l _g mm	N
20890-M2	M 2	0.4	66	16	47	1.4	1.1	4	3
20890-M2,5	M 2.5	0.45	70	20	51	1.7	1.3	4	3
20890-M3	M 3	0.5	70	22	51	2.2	1.8	4	3
20890-M4	M 4	0.7	90	25	70	2.8	2.1	5	3
20890-M5	M 5	0.8	100	28	79	3.5	2.7	6	3
20890-M6	M 6	1	110	32	89	4.5	3.4	6	3
20890-M8	M 8	1.25	125	40	102	6	4.9	8	3
20890-M10	M 10	1.5	140	45	117	7	5.5	8	3
20890-M12	M 12	1.75	180	50	153	9	7	10	3
20890-M16	M 16	2	200	63	158	12	9	12	3

C1

HSS-E automatic taps

mm

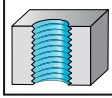
AMB



- For long-chipping materials

M
DIN 13

7G



$\leq 1 \times D_N$

18xP

28HRC
900
-200
N/mm²

TIN

P

M

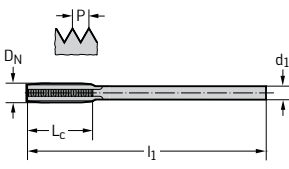
K

N

S

H

O

AMB-NORM	Designation TIN	D_N	P mm	l_1 mm	L_c mm	d_1 h12 mm	N
	2084805-M5	M 5	0.8	271	19	3.9	5
	2084805-M6	M 6	1	271	24	4.6	5
	2084805-M8	M 8	1.25	271	30	6.1	5
	2084805-M10	M 10	1.5	271	36	8	5

Cylindrical shank

MAS 14, T-STAR 10

C1

WALTER SELECT

●● Primary application ● Other application

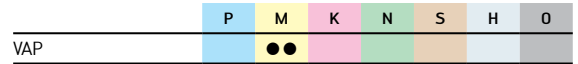
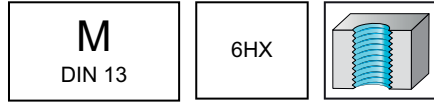
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E stepped AMB

mm

Protostep Inox

- For long-chipping materials
- Three-stage



AMB-NORM		Designation VAP	D_N	P mm	l_1 mm	L_c mm	d_1 h12 mm	N
		20944-M5	M 5	0.8	271	19	3.9	3
		20944-M6	M 6	1	271	24	4.6	3
		20944-M8	M 8	1.25	271	30	6.1	3
		20944-M10	M 10	1.5	271	36	8	3
		20944-M12	M 12	1.75	271	42	9.4	4

Cylindrical shank

MAS 14, T-STAR 10

AMB-NORM		Designation VAP	D_N	P mm	l_1 mm	L_c mm	d_1 h12 mm	N
		20954-M14	M 14	2	435	48	11.1	4
		20954-M16	M 16	2	435	48	13.2	4

Cylindrical shank

MAS 20, T-STAR 20

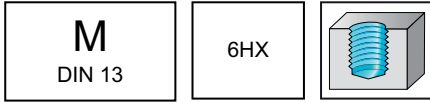
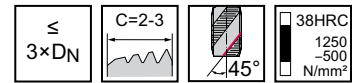
HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			
TIN	●●	●●	●●	●●			

~DIN 371		Designation THL	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>	EP2051302-M2	EP2051305-M2	M 2	0.4	45	4	7.6	2.8	2.1	5	3	
	EP2051302-M2,5	EP2051305-M2,5	M 2.5	0.45	50	4	9.3	2.8	2.1	5	3	
	EP2051302-M3	EP2051305-M3	M 3	0.5	56	6	11	3.5	2.7	6	3	
	EP2051302-M4	EP2051305-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3	
	EP2051302-M5	EP2051305-M5	M 5	0.8	70	8	20.7	6	4.9	8	3	
	EP2051302-M6	EP2051305-M6	M 6	1	80	10	25	6	4.9	8	3	
	EP2051302-M8	EP2051305-M8	M 8	1.25	90	12	35	8	6.2	9	3	
	EP2051302-M10	EP2051305-M10	M 10	1.5	100	15	39	10	8	11	3	

DIN 376		Designation THL	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>	EP2056302-M12	EP2056305-M12	M 12	1.75	110	16	83	9	7	10	4	
	EP2056302-M14	EP2056305-M14	M 14	2	110	20	81	11	9	12	4	
	EP2056302-M16	EP2056305-M16	M 16	2	110	20	68	12	9	12	4	
	EP2056302-M18	EP2056305-M18	M 18	2.5	125	25	81	14	11	14	4	
	EP2056302-M20	EP2056305-M20	M 20	2.5	140	25	95	16	12	15	4	
	EP2056302-M24	EP2056305-M24	M 24	3	160	30	113	18	14.5	17	4	
	EP2056302-M27		M 27	3	160	30	97	20	16	19	4	
	EP2056302-M30		M 30	3.5	180	35	115	22	18	21	4	
	EP2056302-M36		M 36	4	200	40	131	28	22	25	4	
	EP2056302-M42		M 42	4.5	200	45	102	32	24	27	5	
	EP2056302-M48		M 48	5	250	50	147	36	29	32	5	
	EP2056302-M56		M 56	5.5	250	55	120	40	32	35	5	
	EP2056302-M64		M 64	6	315	60	178	50	39	42	6	

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

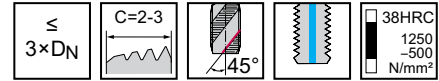
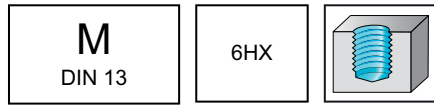
HSS-E PM machine taps

mm

Paradur® Eco Plus



- For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●	●	●			

~DIN 371	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2051312-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3
	EP2051312-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
	EP2051312-M6	M 6	1	80	10	25	6	4.9	8	3
	EP2051312-M8	M 8	1.25	90	12	35	8	6.2	9	3
	EP2051312-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2056312-M12	M 12	1.75	110	16	83	9	7	10	4
	EP2056312-M16	M 16	2	110	20	68	12	9	12	4
	EP2056312-M20	M 20	2.5	140	25	95	16	12	15	4
	EP2056312-M24	M 24	3	160	30	113	18	14.5	17	4

C1

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

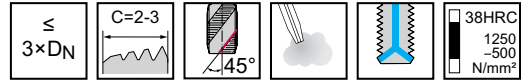
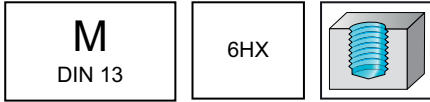
HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 371	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2051342-M10	M 10	1.5	100	15	39	10	8	11	3

Parallel shank

DIN 376	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2056342-M16	M 16	2	110	20	68	12	9	12	4

Parallel shank

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

C1

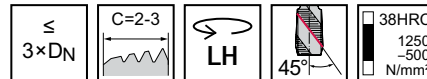
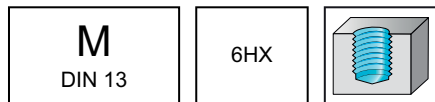
HSS-E PM machine taps

mm

Paradur® Eco Plus



- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 371

Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
EP2051382-M3	M 3	0.5	56	6	11	3.5	2.7	6	3
EP2051382-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3
EP2051382-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
EP2051382-M6	M 6	1	80	10	25	6	4.9	8	3
EP2051382-M8	M 8	1.25	90	12	35	8	6.2	9	3
EP2051382-M10	M 10	1.5	100	15	39	10	8	11	3

Parallel shank

DIN 376

Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
EP2056382-M12	M 12	1.75	110	16	83	9	7	10	4
EP2056382-M14	M 14	2	110	20	81	11	9	12	4
EP2056382-M16	M 16	2	110	20	68	12	9	12	4
EP2056382-M18	M 18	2.5	125	25	81	14	11	14	4
EP2056382-M20	M 20	2.5	140	25	95	16	12	15	4

Parallel shank

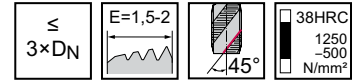
HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 371	Designation									
	THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	EP2051362-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3
	EP2051362-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
	EP2051362-M6	M 6	1	80	10	25	6	4.9	8	3
	EP2051362-M8	M 8	1.25	90	12	35	8	6.2	9	4
	EP2051362-M10	M 10	1.5	100	15	39	10	8	11	4

DIN 376	Designation									
	THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	EP2056362-M12	M 12	1.75	110	16	83	9	7	10	4
	EP2056362-M16	M 16	2	110	20	68	12	9	12	4
	EP2056362-M20	M 20	2.5	140	25	95	16	12	15	4
	EP2056362-M24	M 24	3	160	30	113	18	14.5	17	5



●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

C1

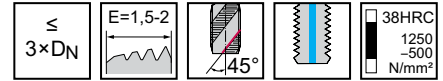
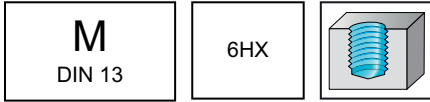
HSS-E PM machine taps

mm

Paradur® Eco Plus

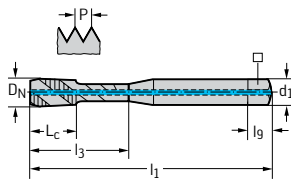


– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 371

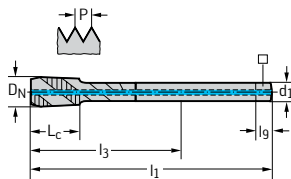


Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
EP2051352-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3
EP2051352-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
EP2051352-M6	M 6	1	80	10	25	6	4.9	8	3
EP2051352-M8	M 8	1.25	90	12	35	8	6.2	9	4
EP2051352-M10	M 10	1.5	100	15	39	10	8	11	4

Parallel shank

C1

DIN 376



Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
EP2056352-M12	M 12	1.75	110	16	83	9	7	10	4
EP2056352-M16	M 16	2	110	20	68	12	9	12	4
EP2056352-M20	M 20	2.5	140	25	95	16	12	15	4

Parallel shank

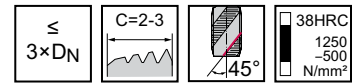
HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			
TIN	●●	●●	●●	●●			

~DIN 371	Designation THL	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
<p>Parallel shank</p>	EP2053302-M2	EP2053305-M2	M 2	0.4	45	4	7.6	2.8	2.1	5	3
	EP2053302-M2,5	EP2053305-M2,5	M 2.5	0.45	50	4	9.3	2.8	2.1	5	3
	EP2053302-M3	EP2053305-M3	M 3	0.5	56	6	11	3.5	2.7	6	3
	EP2053302-M4	EP2053305-M4	M 4	0.7	63	7	14.8	4.5	3.4	6	3
	EP2053302-M5	EP2053305-M5	M 5	0.8	70	8	20.7	6	4.9	8	3
	EP2053302-M6	EP2053305-M6	M 6	1	80	10	25	6	4.9	8	3
	EP2053302-M8	EP2053305-M8	M 8	1.25	90	12	35	8	6.2	9	3
	EP2053302-M10	EP2053305-M10	M 10	1.5	100	15	39	10	8	11	3

≤ M 2.5: Without thread taper

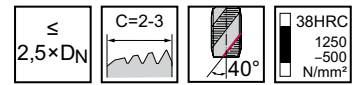
DIN 376	Designation THL	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
<p>Parallel shank</p>	EP2058302-M12	EP2058305-M12	M 12	1.75	110	16	83	9	7	10	4
	EP2058302-M14	EP2058305-M14	M 14	2	110	20	81	11	9	12	4
	EP2058302-M16	EP2058305-M16	M 16	2	110	20	68	12	9	12	4

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

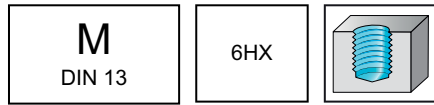
HSS-E machine taps

TD117 Advance

Thread-tec™ Omni

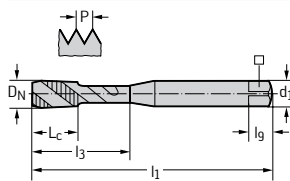


– Universal taps



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (THL)	●	●●	●	●●			

DIN 371

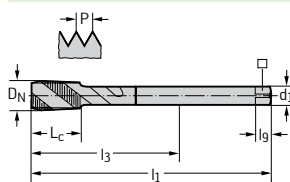


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	N	WY80AA	WY80FC	WY80RG
★ TD117-M1,6-C0-	M 1.6	0.35	40	6	6	2.5	2.1	3		☹	
★ TD117-M1,7-C0-	M 1.7	0.35	40	6	6	2.5	2.1	3		☹	
★ TD117-M1,8-C0-	M 1.8	0.35	40	6	6	2.5	2.1	3		☹	
★ TD117-M2-C0-	M 2	0.4	45	4	8	2.8	2.1	3	☹	☹	
★ TD117-M2,5-C0-	M 2.5	0.45	50	4	11	2.8	2.1	3	☹	☹	
★ TD117-M3-C0-	M 3	0.5	56	6	16	3.5	2.7	3	☹	☹	☹
★ TD117-M3,5-C0-	M 3.5	0.6	56	6.5	17	4	3	3		☹	
★ TD117-M4-C0-	M 4	0.7	63	7	18	4.5	3.4	3	☹	☹	☹
★ TD117-M4,5-C0-	M 4.5	0.7	70	8	22	6	4.9	3		☹	
★ TD117-M5-C0-	M 5	0.8	70	8	22	6	4.9	3	☹	☹	☹
★ TD117-M6-C0-	M 6	1	80	10	26	6	4.9	3	☹	☹	☹
★ TD117-M7-C0-	M 7	1	80	10	26	7	5.5	3		☹	
★ TD117-M8-C0-	M 8	1.25	90	12	30	8	6.2	3	☹	☹	☹
★ TD117-M10-C0-	M 10	1.5	100	15	34	10	8	3	☹	☹	☹

Ordering example for the grade WY80FC: TD117-M1,6-C0-WY80FC

DIN 371



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	N	WY80AA	WY80FC	WY80RG
★ TD117-M6-L0-	M 6	1	80	10	26	4.5	3.4	3	☹	☹	
★ TD117-M8-L0-	M 8	1.25	90	12	30	6	4.9	3	☹	☹	
★ TD117-M10-L0-	M 10	1.5	100	15	34	10	8	3	☹	☹	
★ TD117-M12-L0-	M 12	1.75	110	16	37	9	7	4	☹	☹	☹
★ TD117-M14-L0-	M 14	2	110	20	43	11	9	4		☹	
★ TD117-M16-L0-	M 16	2	110	20	48	12	9	4	☹	☹	☹
★ TD117-M18-L0-	M 18	2.5	125	25	55	14	11	4		☹	
★ TD117-M20-L0-	M 20	2.5	140	25	61	16	12	4	☹	☹	☹
★ TD117-M22-L0-	M 22	2.5	140	25	61	18	14.5	4		☹	
★ TD117-M24-L0-	M 24	3	160	30	70	18	14.5	4	☹	☹	☹
★ TD117-M27-L0-	M 27	3	160	30	70	20	16	5		☹	
★ TD117-M30-L0-	M 30	3.5	180	35	79	22	18	5	☹	☹	
★ TD117-M33-L0-	M 33	3.5	180	35	79	25	20	5		☹	
★ TD117-M36-L0-	M 36	4	200	40	88	28	22	5		☹	
★ TD117-M42-L0-	M 42	4.5	200	45	89	32	24	5		☹	

Ordering example for the grade WY80AA: TD117-M10-L0-WY80AA

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

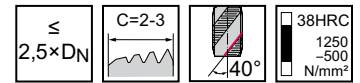
HSS-E machine taps

TD117 Advance

Thread-tec™ Omni

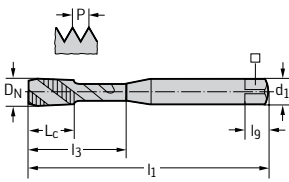


- Universal taps



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			

DIN 371										WY80AA	WY80FC
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	N			
★ TD117-M3-E0-	M 3	0.5	56	6	16	3.5	2.7	3		☒	☒
★ TD117-M4-E0-	M 4	0.7	63	7	18	4.5	3.4	3		☒	☒
★ TD117-M5-E0-	M 5	0.8	70	8	22	6	4.9	3		☒	☒
★ TD117-M6-E0-	M 6	1	80	10	26	6	4.9	3		☒	☒
★ TD117-M8-E0-	M 8	1.25	90	12	30	8	6.2	3		☒	☒
★ TD117-M10-E0-	M 10	1.5	100	15	34	10	8	3		☒	☒



Parallel shank

Ordering example for the grade WY80AA: TD117-M10-E0-WY80AA

C1

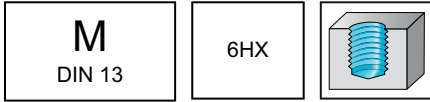
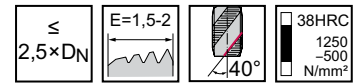
WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E machine taps
TD117 Advance mm
Thread-tec™ Omni

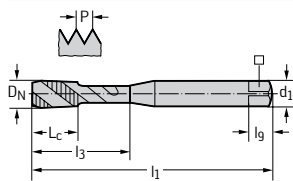


- Universal taps



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (THL)	●	●●	●	●●			

DIN 371

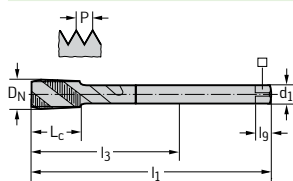


Designation	DN	P mm	l ₁ mm	l _C mm	l ₃ mm	d ₁ h9 mm	□ mm	N	WY80FC	WY80RG
★ TD117-M3-CE-	M 3	0.5	56	6	16	3.5	2.7	3	☒	☒
★ TD117-M4-CE-	M 4	0.7	63	7	18	4.5	3.4	3	☒	☒
★ TD117-M5-CE-	M 5	0.8	70	8	22	6	4.9	3	☒	☒
★ TD117-M6-CE-	M 6	1	80	10	26	6	4.9	3	☒	☒
★ TD117-M8-CE-	M 8	1.25	90	12	30	8	6.2	3	☒	☒
★ TD117-M10-CE-	M 10	1.5	100	15	34	10	8	3	☒	

Parallel shank

Ordering example for the grade WY80FC: TD117-M10-CE-WY80FC

DIN 371



Designation	DN	P mm	l ₁ mm	l _C mm	l ₃ mm	d ₁ h9 mm	□ mm	N	WY80RG
★ TD117-M10-LE-	M 10	1.5	100	15	34	10	8	3	☒
★ TD117-M12-LE-	M 12	1.75	110	16	37	9	7	4	☒
★ TD117-M16-LE-	M 16	2	110	20	48	12	9	4	☒
★ TD117-M20-LE-	M 20	2.5	140	25	61	16	12	4	☒
★ TD117-M24-LE-	M 24	3	160	30	70	18	14.5	4	☒

Parallel shank

Ordering example for the grade WY80RG: TD117-M10-CE-WY80RG

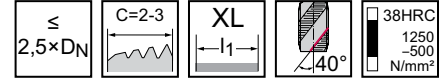
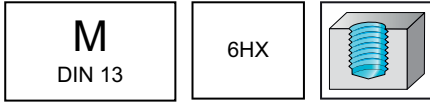
HSS-E machine taps

TD117 Advance mm

Thread-tec™ Omni



– Universal taps



	P	M	K	N	S	H	O
WY80RG (THL)	●	●●	●	●●			

DIN2184R-X										
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	N	WY80RG	
★ TD117-M4-CH-	M 4	0.7	125	7	18	4.5	3.4	3	☹	
★ TD117-M5-CH-	M 5	0.8	140	8	22	6	4.9	3	☹	
★ TD117-M6-CH-	M 6	1	160	10	26	6	4.9	3	☹	

Parallel shank

Ordering example for the grade WY80RG: TD117-M4-CH-WY80RG

DIN2184T-X										
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	N	WY80RG	
★ TD117-M8-LH-	M 8	1.25	180	12	30	6	4.9	3	☹	
★ TD117-M10-LH-	M 10	1.5	200	15	34	7	5.5	3	☹	
★ TD117-M12-LH-	M 12	1.75	220	16	37	9	7	4	☹	
★ TD117-M16-LH-	M 16	2	220	20	49	12	9	4	☹	
★ TD117-M20-LH-	M 20	2.5	280	25	61	16	12	4	☹	

Parallel shank

Ordering example for the grade WY80RG: TD117-M10-LH-WY80RG

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

●● Primary application ● Other application

C1

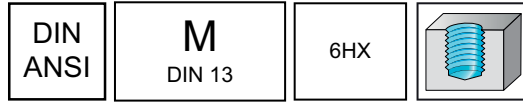
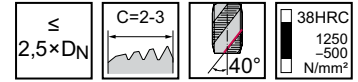
HSS-E machine taps

TD117 Advance inch

Thread-tec™ Omni

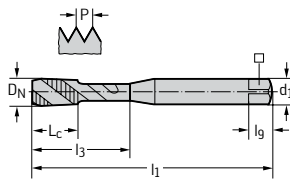


– Universal taps



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (THL)	●	●●	●	●●			

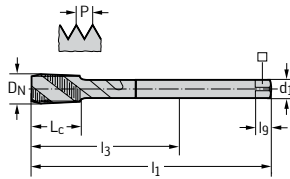
DIN-ANSI



Designation	DN	P mm	l ₁ inch	L _c inch	l ₃ inch	d ₁ h9 inch	inch	N	WY80FC	WY80RG
★ TD117.M3-C0-	M 3	0.5	2.205	0.236	0.630	0.141	0.110	3	☒	☒
★ TD117.M4-C0-	M 4	0.7	2.480	0.276	0.709	0.168	0.131	3	☒	☒
★ TD117.M5-C0-	M 5	0.8	2.756	0.315	0.866	0.194	0.152	3	☒	☒
★ TD117.M6-C0-	M 6	1.0	3.150	0.394	1.024	0.255	0.191	3	☒	☒
★ TD117.M8-C0-	M 8	1.25	3.543	0.472	1.181	0.318	0.238	3	☒	☒
★ TD117.M10-C0-	M 10	1.5	3.937	0.591	1.339	0.381	0.286	3	☒	☒

Ordering example for the grade WY80FC: TD117.M10-C0-WY80FC

DIN-ANSI



Designation	DN	P mm	l ₁ inch	L _c inch	l ₃ inch	d ₁ h9 inch	inch	N	WY80FC	WY80RG
★ TD117.M12-L0-	M 12	1.75	4.331	0.630	1.457	0.367	0.275	4	☒	☒
★ TD117.M16-L0-	M 16	2	4.331	0.787	1.890	0.480	0.360	4	☒	☒
★ TD117.M20-L0-	M 20	2.5	5.512	0.984	2.402	0.652	0.489	4	☒	☒

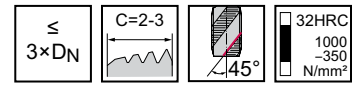
Ordering example for the grade WY80FC: TD117.M12-L0-WY80FC

HSS-E machine taps

TC115 Perform

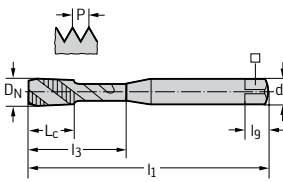


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			
WY80FC (VAP)	●●	●●	●●	●			

DIN 371

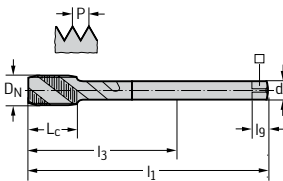


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80FC
TC115-M1,6-C0-	M 1.6	0.35	40	6	6	2.5	2.1	5	2	●●	●●
TC115-M2-C0-	M 2	0.4	45	4	9	2.8	2.1	5	3	●●	●●
TC115-M2,5-C0-	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3	●●	●●
TC115-M3-C0-	M 3	0.5	56	6	18	3.5	2.7	6	3	●●	●●
TC115-M4-C0-	M 4	0.7	63	7	21	4.5	3.4	6	3	●●	●●
TC115-M5-C0-	M 5	0.8	70	8	25	6	4.9	8	3	●●	●●
TC115-M6-C0-	M 6	1	80	10	30	6	4.9	8	3	●●	●●
TC115-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	3	●●	●●
TC115-M10-C0-	M 10	1.5	100	15	39	10	8	11	3	●●	●●

Ordering example for the grade WY80AA: TC115-M1,6-C0-WY80AA

DIN 376



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA	WY80FC
TC115-M12-L0-	M 12	1.75	110	16	83	9	7	10	3	●●	●●
TC115-M14-L0-	M 14	2	110	20	81	11	9	12	3	●●	●●
TC115-M16-L0-	M 16	2	110	20	68	12	9	12	3	●●	●●
TC115-M20-L0-	M 20	2.5	140	25	95	16	12	15	4	●●	●●

Ordering example for the grade WY80AA: TC115-M12-L0-WY80AA

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

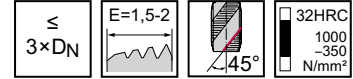
C1

HSS-E machine taps

TC115 Perform mm

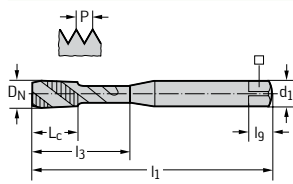


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			

DIN 371

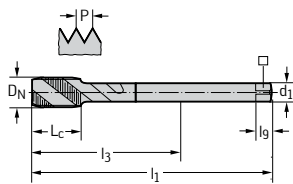


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AA
TC115-M3-CE-	M 3	0.5	56	6	18	3.5	2.7	6	3	☹
TC115-M4-CE-	M 4	0.7	63	7	21	4.5	3.4	6	3	☹
TC115-M5-CE-	M 5	0.8	70	8	25	6	4.9	8	3	☹
TC115-M6-CE-	M 6	1	80	10	30	6	4.9	8	3	☹
TC115-M8-CE-	M 8	1.25	90	12	35	8	6.2	9	3	☹
TC115-M10-CE-	M 10	1.5	100	15	39	10	8	11	3	☹

Parallel shank

Ordering example for the grade WY80AA: TC115-M10-CE-WY80AA

DIN 376



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N	WY80AA
TC115-M12-LE-	M 12	1.75	110	16	83	9	7	10	3	☹
TC115-M14-LE-	M 14	2	110	20	81	11	9	12	3	☹
TC115-M16-LE-	M 16	2	110	20	68	12	9	12	3	☹
TC115-M20-LE-	M 20	2.5	140	25	95	16	12	15	4	☹

Parallel shank

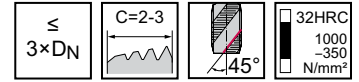
Ordering example for the grade WY80AA: TC115-M12-LE-WY80AA

HSS-E tap set 1


TC115 Perform



- Universal tap set



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			
WY80FC (VAP)	●●	●●	●●	●			

Tool				WY80AA	WY80FC
Designation	Tap D _N	Quantity			
 TC115-SET1-M3-M12- TC115-SET1-M3-M12-	M 3 - M 12	7	☹		
	M 3 - M 12	7		☹	

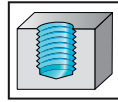
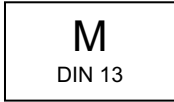
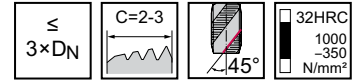
C1

HSS-E tap set 2

TC115 Perform



- Universal tap set
- Incl. Core-hole drill



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			
WY80FC (VAP)	●●	●●	●●	●			

Tool



Designation	Tap D_N	Drill Dia. mm	Quantity	WY80AA	WY80FC
TC115-SET2-M3-M12-	M 3 - M 12	2.5 - 10.2	14	☒	
TC115-SET2-M3-M12-	M 3 - M 12	2.5 - 10.2	14		☒

C1

HSS-E machine taps

mm

Paradur® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

40HRC
1300 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TIN/VAP	●●	●●	●●	●	●		●
THL	●●	●●	●●	●	●		●

~DIN 371	Designation THL	Designation TIN/VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 mm	N
 Parallel shank	S2051302-M2	S2051305-M2	M 2	0.4	70	4	7.6	6	4.9	8	3
	S2051302-M2,5	S2051305-M2,5	M 2.5	0.45	70	4.5	9.3	6	4.9	8	3
	S2051302-M3	S2051305-M3	M 3	0.5	70	5	11	6	4.9	8	3
	S2051302-M4	S2051305-M4	M 4	0.7	70	7	14.8	6	4.9	8	3
	S2051302-M5	S2051305-M5	M 5	0.8	70	8.5	20.7	6	4.9	8	3
	S2051302-M6	S2051305-M6	M 6	1	80	10.5	25	6	4.9	8	3
	S2051302-M8	S2051305-M8	M 8	1.25	90	13.5	35	8	6.2	9	3
	S2051302-M10	S2051305-M10	M 10	1.5	100	16	39	10	8	11	3

~DIN 376	Designation THL	Designation TIN/VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 mm	N
 Parallel shank	S2056302-M12	S2056305-M12	M 12	1.75	110	18.5	42	12	9	12	3
	S2056302-M14	S2056305-M14	M 14	2	110	21	49	14	11	14	3
	S2056302-M16	S2056305-M16	M 16	2	110	21	55	16	12	15	4
	S2056302-M20	S2056305-M20	M 20	2.5	140	26.5	95	16	12	15	4
	S2056302-M24	S2056305-M24	M 24	3	160	32	97	20	16	19	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

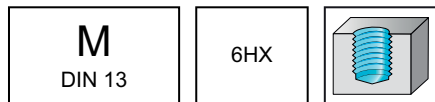
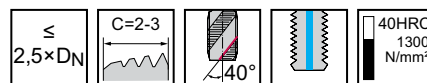
HSS-E machine taps

mm

Paradur® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
TIN/VAP	●●	●●	●●	●	●		●
THL	●●	●●	●●	●	●		●

~DIN 371	Designation THL	Designation TIN/VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	S2051312-M5	S2051315-M5	M 5	0.8	70	8.5	20.7	6	4.9	8	3
	S2051312-M6	S2051315-M6	M 6	1	80	10.5	25	6	4.9	8	3
	S2051312-M8	S2051315-M8	M 8	1.25	90	13.5	35	8	6.2	9	3
	S2051312-M10	S2051315-M10	M 10	1.5	100	16	39	10	8	11	3

~DIN 376	Designation THL	Designation TIN/VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	S2056312-M12	S2056315-M12	M 12	1.75	110	18.5	42	12	9	12	3
	S2056312-M14	S2056315-M14	M 14	2	110	21	49	14	11	14	3
	S2056312-M16	S2056315-M16	M 16	2	110	21	55	16	12	15	4
	S2056312-M20	S2056315-M20	M 20	2.5	140	26.5	95	16	12	15	4

C1

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

●● Primary application ● Other application

HSS-E machine taps

mm

Paradur® H



– For long- and short-chipping materials

$\leq 1,5 \times D_N$

$C=2-3$

32HRC
 1000-200
 N/mm²

M
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
TIN			●	●●			●
uncoated			●	●●			●

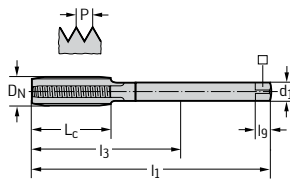
DIN 371		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>		20311-M1	M 1	0.25	40	5	5	2.5	2.1	5	3	
		20311-M1,2	M 1.2	0.25	40	5	5	2.5	2.1	5	3	
		20311-M1,4	M 1.4	0.3	40	6.5	6.5	2.5	2.1	5	3	
		20311-M1,6	M 1.6	0.35	40	7	7	2.5	2.1	5	3	
		20311-M1,7	M 1.7	0.35	40	7	7	2.5	2.1	5	3	
		20311-M1,8	M 1.8	0.35	40	7	7	2.5	2.1	5	3	
		20311-M2	M 2	0.4	45	6	9	2.8	2.1	5	3	
		20311-M2,3	M 2.3	0.4	45	7	12	2.8	2.1	5	3	
		20311-M2,2	M 2.2	0.45	45	7	12	2.8	2.1	5	3	
		20311-M2,5	M 2.5	0.45	50	8	12.5	2.8	2.1	5	3	
	20311-M2,6	M 2.6	0.45	50	8	12.5	2.8	2.1	5	3		
	203115-M3	20311-M3	M 3	0.5	56	9	18	3.5	2.7	6	3	
	203115-M3,5	20311-M3,5	M 3.5	0.6	56	11	20	4	3	6	3	
	203115-M4	20311-M4	M 4	0.7	63	12	21	4.5	3.4	6	3	
	203115-M5	20311-M5	M 5	0.8	70	13	25	6	4.9	8	3	
	203115-M6	20311-M6	M 6	1	80	15	30	6	4.9	8	3	
	203115-M7	20311-M7	M 7	1	80	15	30	7	5.5	8	3	
	203115-M8	20311-M8	M 8	1.25	90	18	35	8	6.2	9	3	
	203115-M10	20311-M10	M 10	1.5	100	20	39	10	8	11	3	

≤ M 1.4: 5H
 ≤ M 1.8: Without reduced neck after the thread

WALTER SELECT

●● Primary application ● Other application

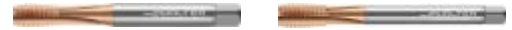
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

DIN 376


Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
20361-M2	M 2	0.4	45	6	26	1.4	1.1	4	3
20361-M2,5	M 2.5	0.45	50	8	31	1.8	1.4	4	3
20361-M3	M 3	0.5	56	9	37	2.2	1.8	4	3
20361-M4	M 4	0.7	63	12	43	2.8	2.1	5	3
20361-M5	M 5	0.8	70	13	49	3.5	2.7	6	3
20361-M6	M 6	1	80	15	59	4.5	3.4	6	3
20361-M8	M 8	1.25	90	18	67	6	4.9	8	3
20361-M10	M 10	1.5	100	20	77	7	5.5	8	3
20361-M12	M 12	1.75	110	23	83	9	7	10	3
20361-M14	M 14	2	110	25	81	11	9	12	3
20361-M16	M 16	2	110	25	68	12	9	12	3
20361-M18	M 18	2.5	125	30	81	14	11	14	4
20361-M20	M 20	2.5	140	30	95	16	12	15	4
20361-M24	M 24	3	160	36	113	18	14.5	17	4
20361-M27	M 27	3	160	36	97	20	16	19	4
20361-M30	M 30	3.5	180	42	115	22	18	21	4
20361-M33	M 33	3.5	180	42	113	25	20	23	4
20361-M36	M 36	4	200	48	131	28	22	25	4
20361-M42	M 42	4.5	200	54	102	32	24	27	4

HSS-E machine taps

TC130 Supreme mm



- WY80AA: Good Performance
- WY80EH: Excellent Performance

$\leq 3,5 \times D_N$

$C=2-3$

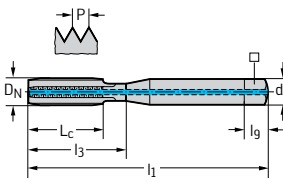
44HRC
1400-700 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WY80AA (TiN)	●●		●●	●			●
WY80EH (AlCrTiN)	●●		●●	●			●

DIN 371

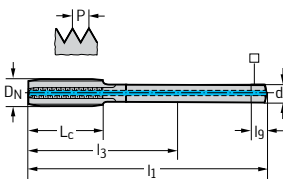


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WY80AA	WY80EH
TC130-M4-C1-	M 4	0.7	63	12	21	4.5	3.4	6	3	☒	☒
TC130-M5-C1-	M 5	0.8	70	13	25	6	4.9	8	3	☒	☒
TC130-M6-C1-	M 6	1	80	15	30	6	4.9	8	3	☒	☒
TC130-M8-C1-	M 8	1.25	90	18	35	8	6.2	9	3	☒	☒
TC130-M10-C1-	M 10	1.5	100	20	39	10	8	11	3	☒	☒

Parallel shank

Ordering example for the grade WY80AA: TC130-M10-C1-WY80AA

DIN 376



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WY80AA	WY80EH
TC130-M12-L1-	M 12	1.75	110	23	83	9	7	10	3	☒	☒
TC130-M14-L1-	M 14	2	110	25	81	11	9	12	3	☒	
TC130-M16-L1-	M 16	2	110	25	68	12	9	12	3	☒	☒
TC130-M20-L1-	M 20	2.5	140	30	95	16	12	15	3	☒	☒
TC130-M22-L1-	M 22	2.5	140	30	93	18	14.5	17	3	☒	
TC130-M24-L1-	M 24	3	160	36	113	18	14.5	17	4	☒	☒
TC130-M27-L1-	M 27	3	160	36	97	20	16	19	4	☒	
TC130-M30-L1-	M 30	3.5	180	42	115	22	18	21	4	☒	☒
TC130-M36-L1-	M 36	4	200	48	131	28	22	25	5	☒	☒
TC130-M42-L1-	M 42	4.5	200	54	102	32	24	27	5	☒	

Parallel shank

Ordering example for the grade WY80AA: TC130-M12-L1-WY80AA

WALTER SELECT

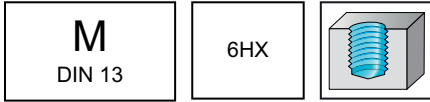
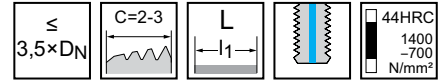
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E machine taps

TC130 Supreme

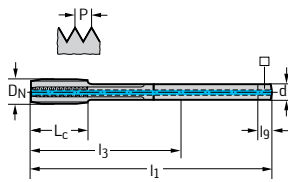


- WY80AA: Good Performance
- WY80EH: Excellent Performance



	P	M	K	N	S	H	O
WY80AA (TiN)	●●		●●	●			●
WY80EH (AlCrTiN)	●●		●●	●			●

~DIN 376 L



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80EH
TC130-M8-LG-	M 8	1.25	110	18	87	6	4.9	8	3	●●	●●
TC130-M10-LG-	M 10	1.5	125	20	102	7	5.5	8	3	●●	●●
TC130-M12-LG-	M 12	1.75	140	23	113	9	7	10	3	●●	●●
TC130-M14-LG-	M 14	2	140	25	111	11	9	12	3	●●	
TC130-M16-LG-	M 16	2	160	25	118	12	9	12	3	●●	●●
TC130-M20-LG-	M 20	2.5	180	30	135	16	12	15	3	●●	●●
TC130-M22-LG-	M 22	2.5	200	30	153	18	14.5	17	3	●●	
TC130-M24-LG-	M 24	3	200	36	153	18	14.5	17	4	●●	●●
TC130-M27-LG-	M 27	3	225	36	162	20	16	19	4	●●	
TC130-M30-LG-	M 30	3.5	250	42	185	22	18	21	4	●●	●●
TC130-M33-LG-	M 33	3.5	275	42	208	25	20	23	4	●●	
TC130-M36-LG-	M 36	4	300	48	231	28	22	25	5	●●	●●
TC130-M42-LG-	M 42	4.5	350	54	252	32	24	27	5	●●	

Ordering example for the grade WY80AA: TC130-M10-LG-WY80AA

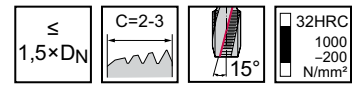
WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
TICN	●●		●●	●●			
TIN	●●		●●	●●			
uncoated	●●		●●	●●			

DIN 371

Designation TICN	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
		20410-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
		20410-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
	204105-M3	20410-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		20410-M3,5	M 3.5	0.6	56	6.5	20	4	3	6	3
2041006-M4	204105-M4	20410-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
2041006-M5	204105-M5	20410-M5	M 5	0.8	70	8	25	6	4.9	8	3
2041006-M6	204105-M6	20410-M6	M 6	1	80	10	30	6	4.9	8	3
		20410-M7	M 7	1	80	10	30	7	5.5	8	3
2041006-M8	204105-M8	20410-M8	M 8	1.25	90	12	35	8	6.2	9	3
2041006-M10	204105-M10	20410-M10	M 10	1.5	100	15	39	10	8	11	3

l_g dimensions in accordance with DIN 10

DIN 376

Designation TICN	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
		20460-M3	M 3	0.5	56	6	37	2.2	1.8	4	3
		20460-M4	M 4	0.7	63	7	43	2.8	2.1	5	3
		20460-M5	M 5	0.8	70	8	49	3.5	2.7	6	3
		20460-M6	M 6	1	80	10	59	4.5	3.4	6	3
		20460-M8	M 8	1.25	90	13	67	6	4.9	8	3
		20460-M10	M 10	1.5	100	15	77	7	5.5	8	3
2046006-M12	204605-M12	20460-M12	M 12	1.75	110	16	83	9	7	10	3
2046006-M14	204605-M14	20460-M14	M 14	2	110	20	81	11	9	12	3
2046006-M16	204605-M16	20460-M16	M 16	2	110	20	68	12	9	12	3
		20460-M18	M 18	2.5	125	25	81	14	11	14	4
2046006-M20	204605-M20	20460-M20	M 20	2.5	140	25	95	16	12	15	4
		20460-M22	M 22	2.5	140	25	93	18	14.5	17	4
		20460-M24	M 24	3	160	30	113	18	14.5	17	4
		20460-M30	M 30	3.5	180	35	115	22	18	21	4
		20460-M36	M 36	4	200	40	131	28	22	25	4

l_g dimensions in accordance with DIN 10

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

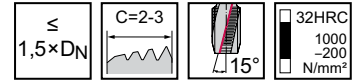
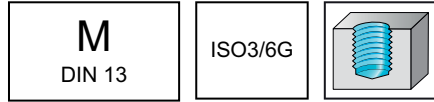
HSS-E machine taps

mm

Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	20430-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
	20430-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
	20430-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
	20430-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	20430-M5	M 5	0.8	70	8	25	6	4.9	8	3
	20430-M6	M 6	1	80	10	30	6	4.9	8	3
	20430-M8	M 8	1.25	90	12	35	8	6.2	9	3
	20430-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	20480-M12	M 12	1.75	110	16	83	9	7	10	3
	20480-M16	M 16	2	110	20	68	12	9	12	3

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

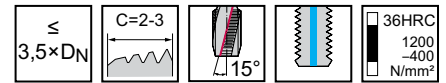
HSS-E machine taps

mm

Paradur® NH



– For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●		●●	●			●
uncoated	●●		●●	●			●

DIN 371	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	TIN	uncoated									
	2041215-M4		M 4	0.7	63	12	21	4.5	3.4	6	3
	2041215-M5	2041210-M5	M 5	0.8	70	13	25	6	4.9	8	3
	2041215-M6	2041210-M6	M 6	1	80	15	30	6	4.9	8	3
	2041215-M8		M 8	1.25	90	18	35	8	6.2	9	3
	2041215-M10	2041210-M10	M 10	1.5	100	20	39	10	8	11	3

Parallel shank

DIN 376	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	TIN	uncoated									
	2046215-M12	2046210-M12	M 12	1.75	110	23	83	9	7	10	4

Parallel shank

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

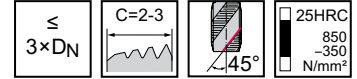
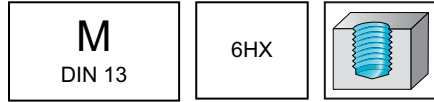
C1

HSS-E-PM machine taps

TC120 Supreme

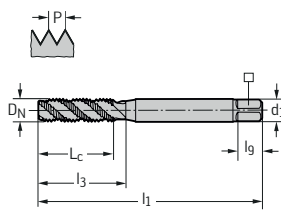


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AG (TiN + VAP)	●●			●			

DIN 371

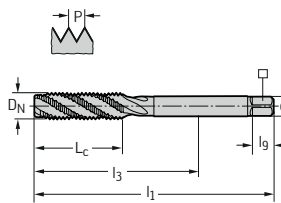


Parallel shank

Designation	D_N	P mm	l_1 mm	L_C mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WW60AG
TC120-M3-C0-	M 3	0.5	56	10	18	3.5	2.7	6	3	☼
TC120-M4-C0-	M 4	0.7	63	13.5	21	4.5	3.4	6	3	☼
TC120-M5-C0-	M 5	0.8	70	16.5	25	6	4.9	8	3	☼
TC120-M6-C0-	M 6	1	80	20	30	6	4.9	8	3	☼
TC120-M8-C0-	M 8	1.25	90	26.5	35	8	6.2	9	3	☼
TC120-M10-C0-	M 10	1.5	100	33	39	10	8	11	3	☼

Ordering example for the grade WW60AG: TC120-M10-C0-WW60AG

DIN 376



Parallel shank

Designation	D_N	P mm	l_1 mm	L_C mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WW60AG
TC120-M12-L0-	M 12	1.75	110	39.5	83	9	7	10	4	☼
TC120-M16-L0-	M 16	2	120	52	78	12	9	12	4	☼
TC120-M20-L0-	M 20	2.5	140	65	95	16	12	15	4	☼
TC120-M24-L0-	M 24	3	160	78	113	18	14.5	17	4	☼
TC120-M30-L0-	M 30	3.5	205	97	140	22	18	21	4	☼

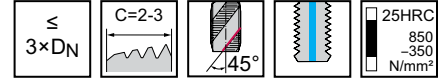
Ordering example for the grade WW60AG: TC120-M12-L0-WW60AG

HSS-E-PM machine taps

TC120 Supreme

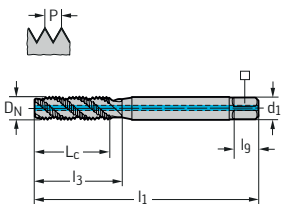


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AG (TiN + VAP)	●●			●			

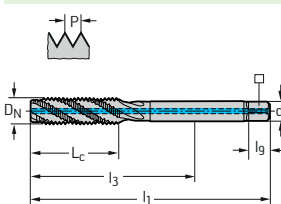
DIN 371											WW60AG
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC120-M8-C1-	M 8	1.25	90	26.5	35	8	6.2	9	3	☼	
TC120-M10-C1-	M 10	1.5	100	33	39	10	8	11	3	☼	



Parallel shank

Ordering example for the grade WW60AG: TC120-M10-C1-WW60AG

DIN 376											WW60AG
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC120-M12-L1-	M 12	1.75	110	39.5	83	9	7	10	4	☼	
TC120-M16-L1-	M 16	2	120	52	78	12	9	12	4	☼	



Parallel shank

Ordering example for the grade WW60AG: TC120-M12-L1-WW60AG

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

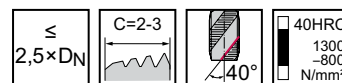
C1

HSS-E (-PM) machine taps

TC121 Supreme

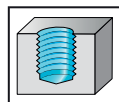


- WW60RG = HSS-E-PM + TiAlN
- WY80BD = HSS-E + TiCN



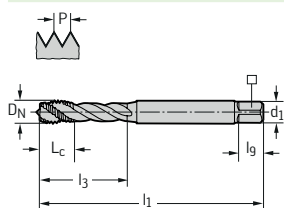
M
DIN 13

6HX



	P	M	K	N	S	H	O
WW60RG (TiAlN)	●●	●	●	●	■	■	■
WY80BD (TiCN)	●●	●	●	●	■	■	■

DIN 371

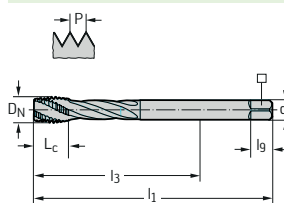


Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	WW60RG	WY80BD
TC121-M2-C0-	M 2	0.4	45	4	7.6	2.8	2.1	5	3	●●	■
TC121-M3-C0-	M 3	0.5	56	6	11	3.5	2.7	6	3	●●	●●
TC121-M4-C0-	M 4	0.7	63	7	14.8	4.5	3.4	6	3	●●	●●
TC121-M5-C0-	M 5	0.8	70	8	20.7	6	4.9	8	3	●●	●●
TC121-M6-C0-	M 6	1	80	10	25	6	4.9	8	3	●●	●●
TC121-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	3	●●	●●
TC121-M10-C0-	M 10	1.5	100	15	39	10	8	11	3	●●	●●

Ordering example for the grade WW60RG: TC121-M10-C0-WW60RG

DIN 376



Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	WW60RG	WY80BD
TC121-M12-L0-	M 12	1.75	110	16	83	9	7	10	4	●●	●●
TC121-M14-L0-	M 14	2	110	20	81	11	9	12	4	●●	●●
TC121-M16-L0-	M 16	2	110	20	68	12	9	12	4	●●	●●
TC121-M20-L0-	M 20	2.5	140	25	95	16	12	15	4	●●	●●

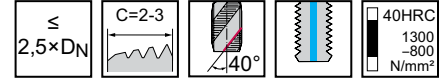
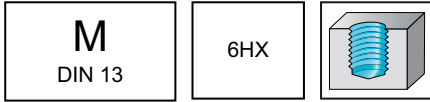
Ordering example for the grade WW60RG: TC121-M12-L0-WW60RG

HSS-E (-PM) machine taps

TC121 Supreme

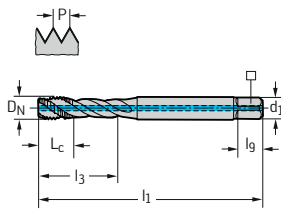


- For long-chipping materials



	P	M	K	N	S	H	O
WW60RG (TiAIN)	●●	●	●	●			

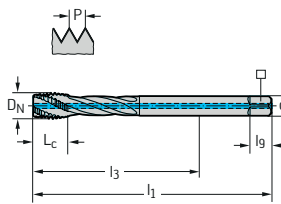
DIN 371											WW60RG
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N		
TC121-M5-C1-	M 5	0.8	70	8	20.7	6	4.9	8	3	●●	
TC121-M6-C1-	M 6	1	80	10	25	6	4.9	8	3	●●	
TC121-M8-C1-	M 8	1.25	90	12	35	8	6.2	9	3	●●	
TC121-M10-C1-	M 10	1.5	100	15	39	10	8	11	3	●●	



Parallel shank

Ordering example for the grade WW60RG: TC121-M10-C1-WW60RG

DIN 376											WW60RG
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N		
TC121-M12-L1-	M 12	1.75	110	16	83	9	7	10	4	●●	
TC121-M14-L1-	M 14	2	110	20	81	11	9	12	4	●●	
TC121-M16-L1-	M 16	2	110	20	68	12	9	12	4	●●	
TC121-M20-L1-	M 20	2.5	140	25	95	16	12	15	4	●●	



Parallel shank

Ordering example for the grade WW60RG: TC121-M12-L1-WW60RG

WALTER SELECT ●● Primary application ● Other application

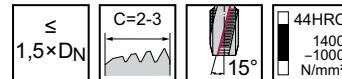
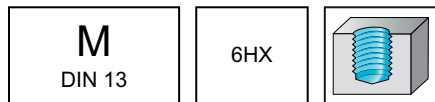
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

TC122 Supreme

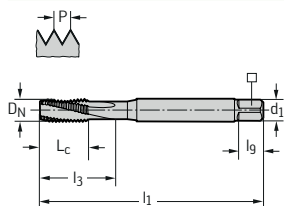


- For long-chipping materials



	P	M	K	N	S	H	O
WW60BC (TiCN)	●●		●				

DIN 371

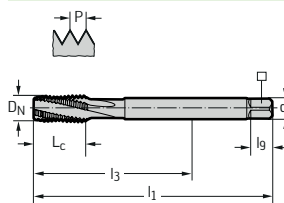


Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WW60BC
TC122-M3-C0-	M 3	0.5	56	10	10	3.5	2.7	6	3	●●
TC122-M4-C0-	M 4	0.7	63	13	13	4.5	3.4	6	3	●●
TC122-M5-C0-	M 5	0.8	70	16	16	6	4.9	8	3	●●
TC122-M6-C0-	M 6	1	80	15	30	6	4.9	8	3	●●
TC122-M8-C0-	M 8	1.25	90	18	35	8	6.2	9	3	●●
TC122-M10-C0-	M 10	1.5	100	20	39	10	8	11	3	●●

Ordering example for the grade WW60BC: TC122-M10-C0-WW60BC

DIN 376



Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WW60BC
TC122-M12-L0-	M 12	1.75	110	23	83	9	7	10	4	●●
TC122-M14-L0-	M 14	2	110	25	81	11	9	12	4	●●
TC122-M16-L0-	M 16	2	110	25	68	12	9	12	4	●●
TC122-M20-L0-	M 20	2.5	140	30	95	16	12	15	4	●●

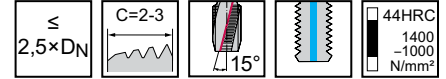
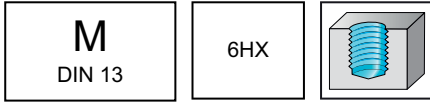
Ordering example for the grade WW60BC: TC122-M12-L0-WW60BC

HSS-E PM machine taps

TC122 Supreme



– For long-chipping materials



	P	M	K	N	S	H	O
WW60BC (TiCN)	●●		●				

DIN 371											WW60BC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N		
TC122-M5-C1-	M 5	0.8	70	16	16	6	4.9	8	3	☼	
TC122-M6-C1-	M 6	1	80	15	30	6	4.9	8	3	☼	
TC122-M8-C1-	M 8	1.25	90	18	35	8	6.2	9	3	☼	
TC122-M10-C1-	M 10	1.5	100	20	39	10	8	11	3	☼	

Parallel shank

Ordering example for the grade WW60BC: TC122-M10-C1-WW60BC

DIN 376											WW60BC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N		
TC122-M12-L1-	M 12	1.75	110	23	83	9	7	10	4	☼	
TC122-M14-L1-	M 14	2	110	25	81	11	9	12	4	☼	
TC122-M16-L1-	M 16	2	110	25	68	12	9	12	4	☼	
TC122-M20-L1-	M 20	2.5	140	30	95	16	12	15	4	☼	

Parallel shank

Ordering example for the grade WW60BC: TC122-M12-L1-WW60BC

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

C1

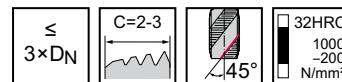
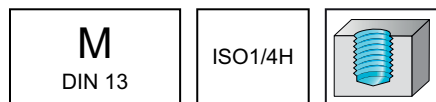
HSS-E machine taps

mm

Paradur® X-pert P

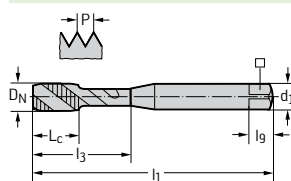


- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371



Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
P20509-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
P20509-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
P20509-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
P20509-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
P20509-M5	M 5	0.8	70	8	25	6	4.9	8	3
P20509-M6	M 6	1	80	10	30	6	4.9	8	3
P20509-M7	M 7	1	80	10	30	7	5.5	8	3
P20509-M8	M 8	1.25	90	12	35	8	6.2	9	3
P20509-M10	M 10	1.5	100	15	39	10	8	11	3

C1

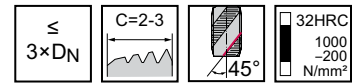
HSS-E machine taps

mm

Paradur® X-pert P

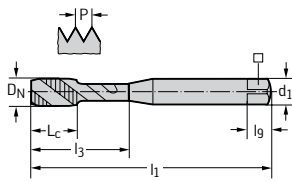


- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 371

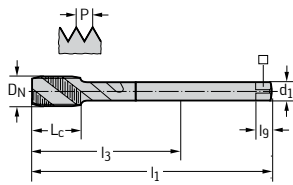


Parallel shank

Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P20519-M1,6	M 1.6	0.35	40	6	6	2.5	2.1	5	2
P2051905-M2	P20519-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
	P20519-M2,2	M 2.2	0.45	45	4	12	2.8	2.1	5	3
P2051905-M2,5	P20519-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
	P20519-M2,6	M 2.6	0.45	50	4	12.5	2.8	2.1	5	3
P2051905-M3	P20519-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
P2051905-M3,5	P20519-M3,5	M 3.5	0.6	56	6.5	20	4	3	6	3
P2051905-M4	P20519-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	P20519-M4,5	M 4.5	0.75	70	8	25	6	4.9	8	3
P2051905-M5	P20519-M5	M 5	0.8	70	8	25	6	4.9	8	3
P2051905-M6	P20519-M6	M 6	1	80	10	30	6	4.9	8	3
	P20519-M7	M 7	1	80	10	30	7	5.5	8	3
P2051905-M8	P20519-M8	M 8	1.25	90	12	35	8	6.2	9	3
P2051905-M10	P20519-M10	M 10	1.5	100	15	39	10	8	11	3

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

DIN 376


Parallel shank

Designation TiN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
	P20569-M4	M 4	0.7	63	7	43	2.8	2.1	5	3
	P20569-M5	M 5	0.8	70	8	49	3.5	2.7	6	3
	P20569-M6	M 6	1	80	10	59	4.5	3.4	6	3
	P20569-M8	M 8	1.25	90	12	67	6	4.9	8	3
	P20569-M9	M 9	1.25	90	13	67	7	5.5	8	3
	P20569-M10	M 10	1.5	100	15	77	7	5.5	8	3
	P20569-M11	M 11	1.5	100	15	76	8	6.2	9	3
P2056905-M12	P20569-M12	M 12	1.75	110	16	83	9	7	10	3
P2056905-M14	P20569-M14	M 14	2	110	20	81	11	9	12	3
P2056905-M16	P20569-M16	M 16	2	110	20	68	12	9	12	3
P2056905-M18	P20569-M18	M 18	2.5	125	25	81	14	11	14	4
P2056905-M20	P20569-M20	M 20	2.5	140	25	95	16	12	15	4
	P20569-M22	M 22	2.5	140	25	93	18	14.5	17	4
P2056905-M24	P20569-M24	M 24	3	160	30	113	18	14.5	17	4
	P20569-M27	M 27	3	160	30	97	20	16	19	4
P2056905-M30	P20569-M30	M 30	3.5	180	35	115	22	18	21	4
	P20569-M33	M 33	3.5	180	35	113	25	20	23	4
	P20569-M36	M 36	4	200	40	131	28	22	25	4
	P20569-M39	M 39	4	200	40	102	32	24	27	4
	P20569-M42	M 42	4.5	200	45	102	32	24	27	4
	P20569-M45	M 45	4.5	220	45	117	36	29	32	4
	P20569-M48	M 48	5	250	50	147	36	29	32	4
	P20569-M52	M 52	5	250	50	120	40	32	35	5
	P20569-M56	M 56	5.5	250	55	120	40	32	35	5
	P20569-M60	M 60	5.5	280	55	147	45	35	38	5
	P20569-M64	M 64	6	315	60	178	50	39	42	6

C1

HSS-E machine taps

mm

Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P205198-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
	P205198-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	P205198-M5	M 5	0.8	70	8	25	6	4.9	8	3
	P205198-M6	M 6	1	80	10	30	6	4.9	8	3
	P205198-M8	M 8	1.25	90	12	35	8	6.2	9	3
	P205198-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P205698-M12	M 12	1.75	110	16	83	9	7	10	3
	P205698-M14	M 14	2	110	20	81	11	9	12	3
	P205698-M16	M 16	2	110	20	68	12	9	12	3
	P205698-M20	M 20	2.5	140	25	95	16	12	15	4
	P205698-M24	M 24	3	160	30	113	18	14.5	17	4
	P205698-M30	M 30	3.5	180	35	115	22	18	21	4

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

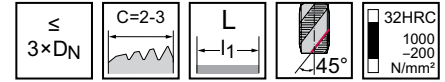
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●			●			●
uncoated	●●			●			●

~DIN 371 L	Designation THL	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	P2051832-M3	P205183-M3	M 3	0.5	112	6	18	3.5	2.7	6	3
	P2051832-M4	P205183-M4	M 4	0.7	112	7	21	4.5	3.4	6	3
	P2051832-M5	P205183-M5	M 5	0.8	125	8	25	6	4.9	8	3
	P2051832-M6	P205183-M6	M 6	1	125	10	30	6	4.9	8	3
	P2051832-M8	P205183-M8	M 8	1.25	140	13	40	8	6.2	9	3
	P2051832-M10	P205183-M10	M 10	1.5	160	15	50	10	8	11	3

Parallel shank

~DIN 376 L	Designation THL	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	P2056832-M8	P205683-M8	M 8	1.25	140	12	117	6	4.9	8	3
	P2056832-M10	P205683-M10	M 10	1.5	160	15	137	7	5.5	8	3
	P2056832-M12	P205683-M12	M 12	1.75	180	16	153	9	7	10	3
	P2056832-M14	P205683-M14	M 14	2	180	20	151	11	9	12	3
	P2056832-M16	P205683-M16	M 16	2	200	20	158	12	9	12	3
	P2056832-M20	P205683-M20	M 20	2.5	224	25	179	16	12	15	4

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

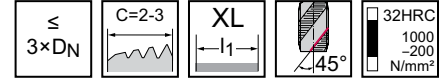
HSS-E machine taps

mm

Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

~DIN 371 XL		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
		P2051935-M3	M 3	0.5	125	6	18	3.5	2.7	6	3
		P2051935-M4	M 4	0.7	125	7	21	4.5	3.4	6	3
		P2051935-M5	M 5	0.8	140	8	25	6	4.9	8	3
		P2051935-M6	M 6	1	160	10	30	6	4.9	8	3
		P2051935-M8	M 8	1.25	180	13	35	8	6.2	9	3
		P2051935-M10	M 10	1.5	200	15	39	10	8	11	3

~DIN 376 XL		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
		P2056935-M8	M 8	1.25	180	12	157	6	4.9	8	3
		P2056935-M10	M 10	1.5	200	15	177	7	5.5	8	3
		P2056935-M12	M 12	1.75	220	16	193	9	7	10	3
		P2056935-M14	M 14	2	220	20	191	11	9	12	3
		P2056935-M16	M 16	2	220	20	178	12	9	12	3
		P2056935-M18	M 18	2.5	250	25	206	14	11	14	4
		P2056935-M20	M 20	2.5	280	25	235	16	12	15	4

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

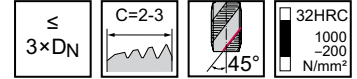
HSS-E machine taps

mm

Paradur® X-pert P AZ

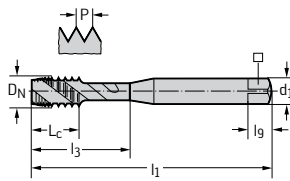


- For long-chipping materials
- For thin-walled workpieces



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 371

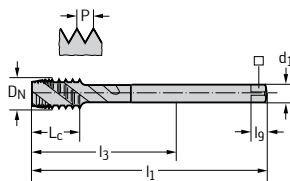


Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
P40519-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
P40519-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
P40519-M5	M 5	0.8	70	8	25	6	4.9	8	3
P40519-M6	M 6	1	80	10	30	6	4.9	8	3
P40519-M8	M 8	1.25	90	12	35	8	6.2	9	3
P40519-M10	M 10	1.5	100	15	39	10	8	11	3

C1

DIN 376



Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
P40569-M12	M 12	1.75	110	16	83	9	7	10	3

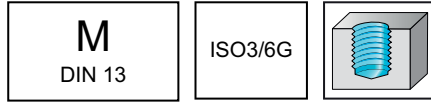
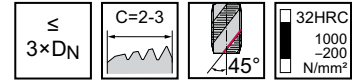
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 371		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>		P20539-M2	M 2	0.4	45	4	9	2.8	2.1	5	3	
		P20539-M2,3	M 2.3	0.4	45	4	12	2.8	2.1	5	3	
		P2053905-M2,5	P20539-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
		P2053905-M3	P20539-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		P20539-M3,5	M 3.5	0.6	56	6.5	20	4	3	6	3	
		P2053905-M4	P20539-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
		P2053905-M5	P20539-M5	M 5	0.8	70	8	25	6	4.9	8	3
		P2053905-M6	P20539-M6	M 6	1	80	10	30	6	4.9	8	3
		P2053905-M8	P20539-M8	M 8	1.25	90	12	35	8	6.2	9	3
		P2053905-M10	P20539-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>		P20589-M5	M 5	0.8	70	8	49	3.5	2.7	6	3	
		P20589-M6	M 6	1	80	10	59	4.5	3.4	6	3	
		P20589-M8	M 8	1.25	90	12	67	6	4.9	8	3	
		P20589-M10	M 10	1.5	100	15	77	7	5.5	8	3	
		P2058905-M12	P20589-M12	M 12	1.75	110	16	83	9	7	10	3
		P20589-M14	M 14	2	110	20	81	11	9	12	3	
		P2058905-M16	P20589-M16	M 16	2	110	20	68	12	9	12	3

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

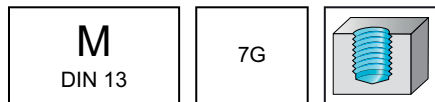
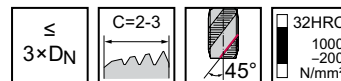
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 371	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N	
<p>Parallel shank</p>		P20549-M2	M 2	0.4	45	4	9	2.8	2.1	5	3	
		P20549-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3	
		P2054905-M3	P20549-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		P2054905-M4	P20549-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
		P2054905-M5	P20549-M5	M 5	0.8	70	8	25	6	4.9	8	3
		P2054905-M6	P20549-M6	M 6	1	80	10	30	6	4.9	8	3
		P2054905-M8	P20549-M8	M 8	1.25	90	12	35	8	6.2	9	3
		P2054905-M10	P20549-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N	
<p>Parallel shank</p>		P20599-M8	M 8	1.25	90	12	67	6	4.9	8	3	
		P20599-M10	M 10	1.5	100	15	77	7	5.5	8	3	
		P2059905-M12	P20599-M12	M 12	1.75	110	16	83	9	7	10	3
		P2059905-M16	P20599-M16	M 16	2	110	20	68	12	9	12	3
		P2059905-M20	P20599-M20	M 20	2.5	140	25	95	16	12	15	4
		P2059905-M24		M 24	3	160	30	113	18	14.5	17	4

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

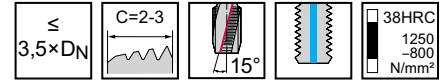
HSS-E machine taps

mm

Paradur® Short Chip HT

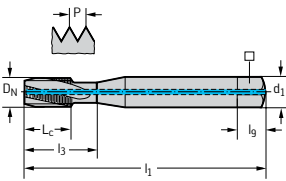


- No problems working with steel materials: No bird nesting
- THL: Good chip control and good wear resistance



	P	M	K	N	S	H	O
THL	●●		●	●			
uncoated	●●		●	●			

DIN 371

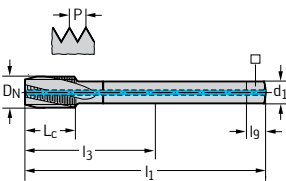


Parallel shank

Designation THL	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
20410T2-M5	20410TR-M5	M 5	0.8	70	8	25	6	4.9	8	3
20410T2-M6	20410TR-M6	M 6	1	80	10	30	6	4.9	8	3
20410T2-M8	20410TR-M8	M 8	1.25	90	12	35	8	6.2	9	3
20410T2-M10	20410TR-M10	M 10	1.5	100	15	39	10	8	11	3

20410TR: Uncoated rake

DIN 376



Parallel shank

Designation THL	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
20460T2-M12	20460TR-M12	M 12	1.75	110	16	83	9	7	10	3

20460TR: Uncoated rake

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C1

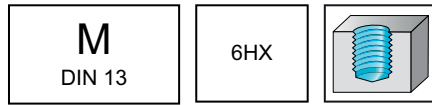
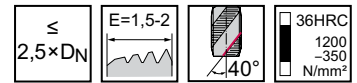
HSS-E machine taps

mm

Paradur® STE



- For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●	●	●			
uncoated	●	●	●	●			

DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	THL	uncoated									
	2051062-M3	205106-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
	2051062-M4	205106-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	2051062-M5	205106-M5	M 5	0.8	70	8	25	6	4.9	8	3
	2051062-M6	205106-M6	M 6	1	80	10	30	6	4.9	8	3
	2051062-M8	205106-M8	M 8	1.25	90	12	35	8	6.2	9	4
	2051062-M10	205106-M10	M 10	1.5	100	15	39	10	8	11	4

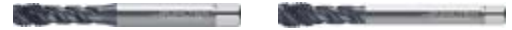
Parallel shank

DIN 376	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	THL	uncoated									
	2056062-M12		M 12	1.75	110	16	83	9	7	10	4
	2056062-M16		M 16	2	110	20	68	12	9	12	5
	2056062-M20		M 20	2.5	140	25	95	16	12	15	5
	2056062-M24		M 24	3	160	30	113	18	14.5	17	5

Parallel shank

HSS-E (-PM) machine taps

TC142 Supreme



- WY80FC: Best chip control
- WW60RB: Best wear resistance

≤
3×DN

C=2-3

150°

36HRC
1200
-350
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WW60RB (TiAlN)							
WY80FC (VAP)							

DIN 371	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60RB	WY80FC
											WW60RB	WY80FC
<p>Parallel shank</p>	TC142-M1,6-C0-	M 1.6	0.35	40	6	6	2.5	2.1	5	2		☼
	TC142-M2-C0-	M 2	0.4	45	4	9	2.8	2.1	5	3	☼	☼
	TC142-M2,3-C0-	M 2.3	0.4	45	4	12	2.8	2.1	5	3		☼
	TC142-M2,5-C0-	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3		☼
	TC142-M2,6-C0-	M 2.6	0.45	50	4	12.5	2.8	2.1	5	3		☼
	TC142-M3-C0-	M 3	0.5	56	6	18	3.5	2.7	6	3	☼	☼
	TC142-M4-C0-	M 4	0.7	63	7	21	4.5	3.4	6	3	☼	☼
	TC142-M5-C0-	M 5	0.8	70	8	25	6	4.9	8	3	☼	☼
	TC142-M6-C0-	M 6	1	80	10	30	6	4.9	8	3	☼	☼
	TC142-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	3	☼	☼
TC142-M10-C0-	M 10	1.5	100	15	39	10	8	11	3	☼	☼	

Ordering example for the grade WY80FC: TC142-M1,6-C0-WY80FC

DIN 376	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60RB	WY80FC
											WW60RB	WY80FC
<p>Parallel shank</p>	TC142-M6-L0-	M 6	1	80	10	59	4.5	3.4	6	3		☼
	TC142-M8-L0-	M 8	1.25	90	12	67	6	4.9	8	3		☼
	TC142-M10-L0-	M 10	1.5	100	15	77	7	5.5	8	3	☼	☼
	TC142-M12-L0-	M 12	1.75	110	16	83	9	7	10	3	☼	☼
	TC142-M14-L0-	M 14	2	110	20	81	11	9	12	3	☼	☼
	TC142-M16-L0-	M 16	2	110	20	68	12	9	12	4	☼	☼
	TC142-M18-L0-	M 18	2.5	125	25	81	14	11	14	4	☼	
	TC142-M20-L0-	M 20	2.5	140	25	95	16	12	15	4	☼	☼
	TC142-M24-L0-	M 24	3	160	30	113	18	14.5	17	4	☼	☼
	TC142-M27-L0-	M 27	3	160	30	97	20	16	19	4		☼
	TC142-M30-L0-	M 30	3.5	180	35	115	22	18	21	5		☼
	TC142-M33-L0-	M 33	3.5	180	35	113	25	20	23	5		☼
	TC142-M36-L0-	M 36	4	200	40	131	28	22	25	5		☼

Ordering example for the grade WW60RB: TC142-M10-L0-WW60RB

WALTER
SELECT

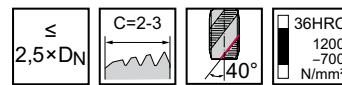
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

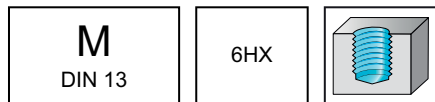
HSS-E machine taps

mm

Paradur® X-pert M

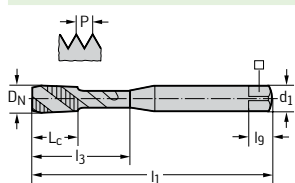


- For long-chipping materials



	P	M	K	N	S	H	O
TICN	●	●●					
TIN	●	●●					
VAP	●	●●					

DIN 371

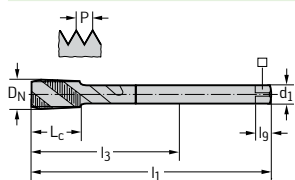


Parallel shank

Designation TICN	Designation TIN	Designation VAP	D_N	P mm	I_1 mm	L_c mm	I_3 mm	d_1 h9 mm	\square mm	I_9 mm	N
		M20513-M1,6	M 1.6	0.35	40	6	6	2.5	2.1	5	3
		M20513-M1,7	M 1.7	0.35	40	6	6	2.5	2.1	5	3
		M20513-M1,8	M 1.8	0.35	40	6	6	2.5	2.1	5	3
M2051306-M2	M2051305-M2	M20513-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
M2051306-M2,5	M2051305-M2,5	M20513-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
M2051306-M3	M2051305-M3	M20513-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		M20513-M3,5	M 3.5	0.6	56	7	20	4	3	6	3
M2051306-M4	M2051305-M4	M20513-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
		M20513-M4,5	M 4.5	0.75	70	8	25	6	4.9	8	3
M2051306-M5	M2051305-M5	M20513-M5	M 5	0.8	70	8	25	6	4.9	8	3
M2051306-M6	M2051305-M6	M20513-M6	M 6	1	80	10	30	6	4.9	8	3
		M20513-M7	M 7	1	80	10	30	7	5.5	8	3
M2051306-M8	M2051305-M8	M20513-M8	M 8	1.25	90	12	35	8	6.2	9	3
M2051306-M10	M2051305-M10	M20513-M10	M 10	1.5	100	15	39	10	8	11	3

≤ M 2.5: Without thread taper
 ≤ M 1.8: Without reduced neck after the thread
 I_9 dimensions in accordance with DIN 10

DIN 376



Parallel shank

Designation TICN	Designation TIN	Designation VAP	D_N	P mm	I_1 mm	L_c mm	I_3 mm	d_1 h9 mm	\square mm	I_9 mm	N
M2056306-M6		M20563-M6	M 6	1	80	10	59	4.5	3.4	6	3
M2056306-M8		M20563-M8	M 8	1.25	90	12	67	6	4.9	8	3
M2056306-M10		M20563-M10	M 10	1.5	100	15	77	7	5.5	8	3
M2056306-M12	M2056305-M12	M20563-M12	M 12	1.75	110	16	83	9	7	10	4
		M20563-M14	M 14	2	110	20	81	11	9	12	4
M2056306-M16	M2056305-M16	M20563-M16	M 16	2	110	20	68	12	9	12	4
		M20563-M18	M 18	2.5	125	25	81	14	11	14	4
M2056306-M20	M2056305-M20	M20563-M20	M 20	2.5	140	25	95	16	12	15	4
		M20563-M22	M 22	2.5	140	25	93	18	14.5	17	4
M2056306-M24		M20563-M24	M 24	3	160	30	113	18	14.5	17	4
		M20563-M27	M 27	3	160	30	97	20	16	19	5
M2056306-M30		M20563-M30	M 30	3.5	180	35	115	22	18	21	5
		M20563-M33	M 33	3.5	180	35	113	25	20	23	5
		M20563-M36	M 36	4	200	40	131	28	22	25	5
		M20563-M42	M 42	4.5	200	45	102	32	24	27	5

I_9 dimensions in accordance with DIN 10

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

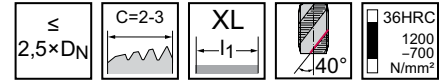
HSS-E machine taps

mm

Paradur® X-pert M



– For long-chipping materials



	P	M	K	N	S	H	O
THL	●	●●					

~DIN 371 XL		Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	M2051332-M4	M 4	0.7	125	7	21	4.5	3.4	6	3	
	M2051332-M5	M 5	0.8	140	8	25	6	4.9	8	3	
	M2051332-M6	M 6	1	160	10	30	6	4.9	8	3	

~DIN 376 XL		Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	M2056332-M8	M 8	1.25	180	12	157	6	4.9	8	3	
	M2056332-M10	M 10	1.5	200	15	177	7	5.5	8	3	
	M2056332-M12	M 12	1.75	220	16	193	9	7	10	4	
	M2056332-M16	M 16	2	220	20	178	12	9	12	4	
	M2056332-M20	M 20	2.5	280	25	235	16	12	15	4	

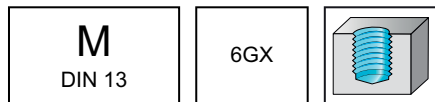
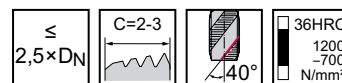
HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials



	P	M	K	N	S	H	O
TICN	●	●●	●	●	●	●	●
VAP	●	●●	●	●	●	●	●

DIN 371	Designation TICN	Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	M2053306-M3	M20533-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
	M2053306-M4	M20533-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	M2053306-M5	M20533-M5	M 5	0.8	70	8	25	6	4.9	8	3
	M2053306-M6	M20533-M6	M 6	1	80	10	30	6	4.9	8	3
	M2053306-M8	M20533-M8	M 8	1.25	90	12	35	8	6.2	9	3
	M2053306-M10	M20533-M10	M 10	1.5	100	15	39	10	8	11	3

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Paradur Inox® 25



– For long-chipping materials

M
DIN 13

6HX

$\leq 1,5 \times D_N$

$E=1,5-2$

$\angle 25^\circ$

36HRC
1200
-350
N/mm²

TIN	P	M	K	N	S	H	O
	●●	●●	●●	●●	●●	●●	●●

~DIN 371	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	2051315-M5	M 5	0.8	70	8	19	6	4.9	8	4
	2051315-M6	M 6	1	80	10	22	6	4.9	8	4
	2051315-M8	M 8	1.25	90	13	28	8	6.2	9	5
	2051315-M10	M 10	1.5	100	15	32	10	8	11	5

Parallel shank

DIN 376	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	2056315-M12	M 12	1.75	110	16	83	9	7	10	5
	2056315-M14	M 14	2	110	20	81	11	9	12	5
	2056315-M16	M 16	2	110	20	68	12	9	12	5
	2056315-M20	M 20	2.5	140	25	95	16	12	15	5

Parallel shank

HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

≤
3×DN

C=2-3

32HRC
1000
-100
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TICN			●●	●●			●●
NID			●●	●●			●●

DIN 371		Designation NID	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	E20314-M3	E2031406-M3	M 3	0.5	56	9	18	3.5	2.7	6	3	
	E20314-M4	E2031406-M4	M 4	0.7	63	12	21	4.5	3.4	6	3	
	E20314-M5	E2031406-M5	M 5	0.8	70	13	25	6	4.9	8	4	
	E20314-M6	E2031406-M6	M 6	1	80	15	30	6	4.9	8	4	
	E20314-M7	E2031406-M7	M 7	1	80	15	30	7	5.5	8	4	
	E20314-M8	E2031406-M8	M 8	1.25	90	18	35	8	6.2	9	4	
		E20314-M9	E2031406-M9	M 9	1.25	90	18	35	9	7	10	4
		E20314-M10	E2031406-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376		Designation NID	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	E20364-M12	E2036406-M12	M 12	1.75	110	23	83	9	7	10	4	
	E20364-M14	E2036406-M14	M 14	2	110	25	81	11	9	12	4	
	E20364-M16	E2036406-M16	M 16	2	110	25	68	12	9	12	4	
	E20364-M18	E2036406-M18	M 18	2.5	125	30	81	14	11	14	4	
	E20364-M20	E2036406-M20	M 20	2.5	140	30	95	16	12	15	4	
	E20364-M22	E2036406-M22	M 22	2.5	140	30	93	18	14.5	17	4	
	E20364-M24	E2036406-M24	M 24	3	160	36	113	18	14.5	17	5	
	E20364-M30	E2036406-M30	M 30	3.5	180	42	115	22	18	21	5	

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

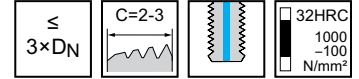
HSS-E PM machine taps

mm

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 371	Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	E2031416-M5	M 5	0.8	70	13	25	6	4.9	8	4
	E2031416-M6	M 6	1	80	15	30	6	4.9	8	4
	E2031416-M7	M 7	1	80	15	30	7	5.5	8	4
	E2031416-M8	M 8	1.25	90	18	35	8	6.2	9	4
	E2031416-M10	M 10	1.5	100	20	39	10	8	11	4

Parallel shank

DIN 376	Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	E2036416-M14	M 14	2	110	25	81	11	9	12	4
	E2036416-M16	M 16	2	110	25	68	12	9	12	4
	E2036416-M18	M 18	2.5	125	30	81	14	11	14	4
	E2036416-M20	M 20	2.5	140	30	95	16	12	15	4
	E2036416-M24	M 24	3	160	36	113	18	14.5	17	5

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

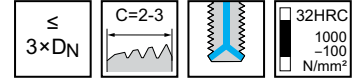
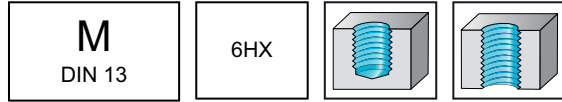
HSS-E PM machine taps

mm

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 371	Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_g mm	N	
<p>Parallel shank</p>	E2031446-M6	M 6	1	80	15	30	6	4.9	8	4
	E2031446-M8	M 8	1.25	90	18	35	8	6.2	9	4
	E2031446-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376	Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_g mm	N	
<p>Parallel shank</p>	E2036446-M12	M 12	1.75	110	23	83	9	7	10	4
	E2036446-M16	M 16	2	110	25	68	12	9	12	4

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

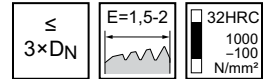
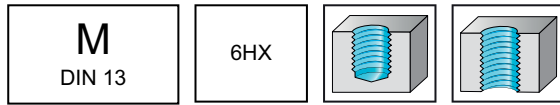
HSS-E PM machine taps

mm

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 371	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	E2031466-M5	M 5	0.8	70	13	25	6	4.9	8	4
	E2031466-M6	M 6	1	80	15	30	6	4.9	8	4
	E2031466-M8	M 8	1.25	90	18	35	8	6.2	9	4
	E2031466-M10	M 10	1.5	100	20	39	10	8	11	4

Parallel shank

DIN 376	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	E2036466-M16	M 16	2	110	25	68	12	9	12	4
	E2036466-M20	M 20	2.5	140	30	95	16	12	15	4
	E2036466-M24	M 24	3	160	36	113	18	14.5	17	5

Parallel shank

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

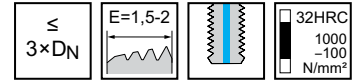
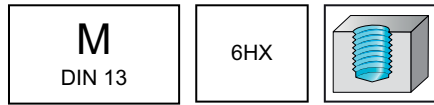
HSS-E PM machine taps

mm

Paradur® Eco CI

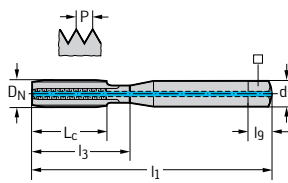


– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

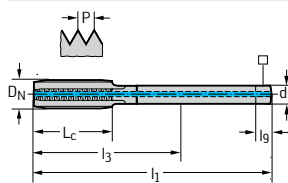
DIN 371



Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
E2031456-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
E2031456-M5	M 5	0.8	70	13	25	6	4.9	8	4
E2031456-M6	M 6	1	80	15	30	6	4.9	8	4
E2031456-M8	M 8	1.25	90	18	35	8	6.2	9	4
E2031456-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 376



Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
E2036456-M12	M 12	1.75	110	23	83	9	7	10	4
E2036456-M16	M 16	2	110	25	68	12	9	12	4
E2036456-M20	M 20	2.5	140	30	95	16	12	15	4

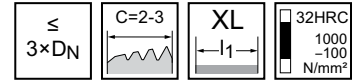
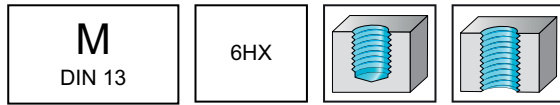
HSS-E PM machine taps

mm

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

~DIN 371 XL		Designation	D_N	P	l_1	L_c	l_3	d_1	h_9	l_9	N
		TICN		mm	mm	mm	mm	mm	mm	mm	
<p>Parallel shank</p>	E2031436-M4	M 4	0.7	125	12	21	4.5	3.4	6	3	
	E2031436-M5	M 5	0.8	140	13	25	6	4.9	8	4	
	E2031436-M6	M 6	1	160	15	30	6	4.9	8	4	
	E2031436-M8	M 8	1.25	180	18	35	8	6.2	9	4	
	E2031436-M10	M 10	1.5	200	20	39	10	8	11	4	

~DIN 376 XL		Designation	D_N	P	l_1	L_c	l_3	d_1	h_9	l_9	N
		TICN		mm	mm	mm	mm	mm	mm	mm	
<p>Parallel shank</p>	E2036436-M12	M 12	1.75	220	23	193	9	7	10	4	
	E2036436-M16	M 16	2	220	25	178	12	9	12	4	
	E2036436-M20	M 20	2.5	280	30	235	16	12	15	4	

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

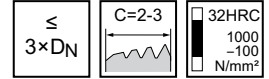
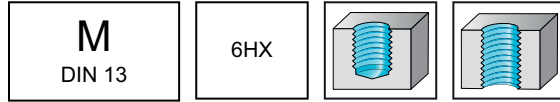
HSS-E PM machine taps

mm

Paradur® X-pert K

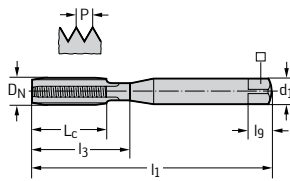


– For short-chipping materials



	P	M	K	N	S	H	O
TAPT			●●	●			

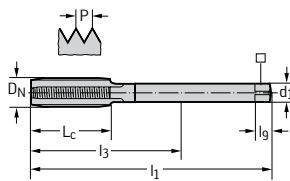
DIN 371



Parallel shank

Designation TAPT	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
K2031407-M3	M 3	0.5	56	9	17	3.5	2.7	6	3
K2031407-M4	M 4	0.7	63	11	19	4.5	3.4	6	3
K2031407-M5	M 5	0.8	70	13	23	6	4.9	8	4
K2031407-M6	M 6	1	80	15	27	6	4.9	8	4
K2031407-M8	M 8	1.25	90	18	31	8	6.2	9	4
K2031407-M10	M 10	1.5	100	20	35	10	8	11	4

DIN 376



Parallel shank

Designation TAPT	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
K2036407-M12	M 12	1.75	110	23	78	9	7	10	4
K2036407-M14	M 14	2	110	25	75	11	9	12	4
K2036407-M16	M 16	2	110	25	62	12	9	12	4
K2036407-M20	M 20	2.5	140	30	88	16	12	15	4

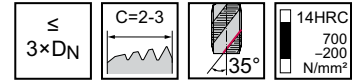
HSS-E machine taps

mm

Paradur® X-pert N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	N20516-M1,6	M 1.6	0.35	40	6	6	2.5	2.1	5	2
	N20516-M2	M 2	0.4	45	4	9	2.8	2.1	5	2
	N20516-M2,3	M 2.3	0.4	45	4	12	2.8	2.1	5	2
	N20516-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	2
	N20516-M3	M 3	0.5	56	6	18	3.5	2.7	6	2
	N20516-M3,5	M 3.5	0.6	56	6.5	20	4	3	6	2
	N20516-M4	M 4	0.7	63	7	21	4.5	3.4	6	2
	N20516-M5	M 5	0.8	70	8	25	6	4.9	8	2
	N20516-M6	M 6	1	80	10	30	6	4.9	8	2
	N20516-M8	M 8	1.25	90	12	35	8	6.2	9	2
N20516-M10	M 10	1.5	100	15	39	10	8	11	2	

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	N20566-M6	M 6	1	80	10	59	4.5	3.4	6	2
	N20566-M8	M 8	1.25	90	12	67	6	4.9	8	2
	N20566-M10	M 10	1.5	100	15	77	7	5.5	8	2
	N20566-M12	M 12	1.75	110	16	83	9	7	10	3
	N20566-M14	M 14	2	110	20	81	11	9	12	3
	N20566-M16	M 16	2	110	20	68	12	9	12	3
	N20566-M20	M 20	2.5	140	25	95	16	12	15	3

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C1

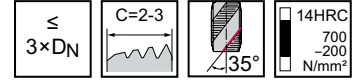
HSS-E machine taps

mm

Paradur® X-pert N

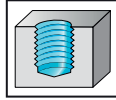


- Increased number of grooves
- For long-chipping materials



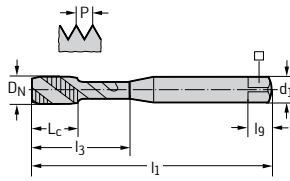
M
DIN 13

ISO2/6H



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371



Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
N205166-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
N205166-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
N205166-M5	M 5	0.8	70	8	25	6	4.9	8	3
N205166-M6	M 6	1	80	10	30	6	4.9	8	3
N205166-M7	M 7	1	80	10	30	7	5.5	8	3
N205166-M8	M 8	1.25	90	12	35	8	6.2	9	3
N205166-M10	M 10	1.5	100	15	39	10	8	11	3

C1

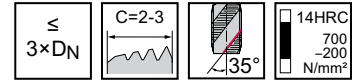
HSS-E machine taps

mm

Paradur® X-pert N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	N20536-M2	M 2	0.4	45	4	9	2.8	2.1	5	2
	N20536-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	2
	N20536-M3	M 3	0.5	56	6	18	3.5	2.7	6	2
	N20536-M4	M 4	0.7	63	7	21	4.5	3.4	6	2
	N20536-M5	M 5	0.8	70	8	25	6	4.9	8	2
	N20536-M6	M 6	1	80	10	30	6	4.9	8	2
	N20536-M8	M 8	1.25	90	12	35	8	6.2	9	2

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

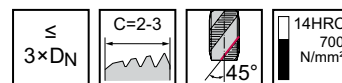
HSS-E machine taps

mm

Paradur® WLM Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



M
DIN 13

ISO2/6H

	P	M	K	N	S	H	O
CRN	●	●	●	●	●	●	●
uncoated	●	●	●	●	●	●	●

~DIN 371	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	CRN	uncoated									
<p>Parallel shank</p>		S20516-M3	M 3	0.5	70	6	18	6	4.9	8	2
	S2051604-M4	S20516-M4	M 4	0.7	70	7	21	6	4.9	8	2
	S2051604-M5	S20516-M5	M 5	0.8	70	8	25	6	4.9	8	2
	S2051604-M6	S20516-M6	M 6	1	80	10	30	6	4.9	8	2
	S2051604-M8	S20516-M8	M 8	1.25	90	12	35	8	6.2	9	2
	S2051604-M10	S20516-M10	M 10	1.5	100	15	39	10	8	11	2

C1

WALTER
SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

HSS-E machine taps

mm

Paradur® AP



- For short-chipping materials
- For Ampco
- Nitrided

≤
2×DN

C=2-3

47HRC
1500
-700
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
NIT				●●	●		

DIN 371	Designation NIT	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	20312-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	20312-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	20312-M5	M 5	0.8	70	13	25	6	4.9	8	3
	20312-M6	M 6	1	80	15	30	6	4.9	8	3
	20312-M8	M 8	1.25	90	18	35	8	6.2	9	3
	20312-M10	M 10	1.5	100	20	39	10	8	11	3

DIN 376	Designation NIT	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	20362-M12	M 12	1.75	110	23	83	9	7	10	4
	20362-M16	M 16	2	110	25	68	12	9	12	4
	20362-M20	M 20	2.5	140	30	95	16	12	15	4

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

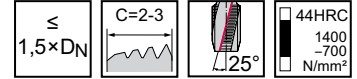
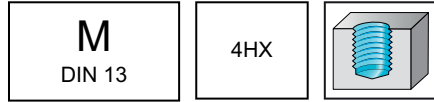
HSS-E PM machine taps

mm

Paradur® Ni



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●				●●		

~DIN 371	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	204104-M2	M 2	0.4	45	8	8	2.8	2.1	5	3
	204104-M3	M 3	0.5	56	10	10	3.5	2.7	6	3
	204104-M3,5	M 3.5	0.6	56	12	12	4	3	6	3
	204104-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
	204104-M5	M 5	0.8	70	16	16	6	4.9	8	3
	204104-M6	M 6	1	80	15	23	6	4.9	8	3
	204104-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
	204104-M10	M 10	1.5	100	20	33.5	10	8	11	4

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ni



- For long-chipping materials

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 25^\circ$

44HRC
1400-700 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TICN	●				●●		
uncoated	●				●●		

~DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
	TICN	uncoated									
 Parallel shank	20410206-M2	204102-M2	M 2	0.4	45	8	8	2.8	2.1	5	3
	20410206-M2,5	204102-M2,5	M 2.5	0.45	50	9	30	2.8	2.1	5	3
	20410206-M3	204102-M3	M 3	0.5	56	10	35	3.5	2.7	6	3
	20410206-M4	204102-M4	M 4	0.7	63	13	42	4.5	3.4	6	3
	20410206-M5	204102-M5	M 5	0.8	70	16	16	6	4.9	8	3
	20410206-M6	204102-M6	M 6	1	80	15	23	6	4.9	8	3
	20410206-M8	204102-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
	20410206-M10	204102-M10	M 10	1.5	100	20	33.5	10	8	11	4

DIN 376	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
	TICN	uncoated									
 Parallel shank		204602-M12	M 12	1.75	110	23	83	9	7	10	4
		204602-M14	M 14	2	110	25	81	11	9	12	4
		204602-M16	M 16	2	110	25	68	12	9	12	4
		204602-M18	M 18	2.5	125	30	81	14	11	14	5
		204602-M20	M 20	2.5	140	30	95	16	12	15	5

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

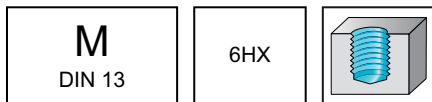
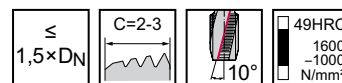
HSS-E PM machine taps

mm

Paradur® Ni 10

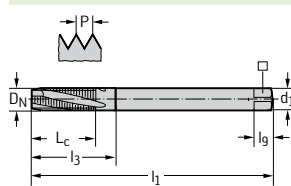


- For long- and short-chipping materials



	P	M	K	N	S	H	O
TIN	●●			●	●●		
uncoated	●●			●	●●		

~DIN 371



Parallel shank

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
2041015-M3	204101-M3	M 3	0.5	56	8	35	3.5	2.7	6	3
2041015-M4	204101-M4	M 4	0.7	63	10.5	42	4.5	3.4	6	3
2041015-M5	204101-M5	M 5	0.8	70	13	47	6	4.9	8	3
2041015-M6	204101-M6	M 6	1	80	16	57	6	4.9	8	3
2041015-M8	204101-M8	M 8	1.25	90	20.5	66	8	6.2	9	3
2041015-M10	204101-M10	M 10	1.5	100	25.5	72	10	8	11	3
2041015-M12	204101-M12	M 12	1.75	110	30.5	68	12	9	12	4
2041015-M16	204101-M16	M 16	2	110	39.5	65	16	12	15	4

Without reduced neck after the thread

C1

WALTER
SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400-700
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TICN	●●			●	●●		
uncoated	●●			●	●●		

~DIN 371		Designation TICN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		20416-M1	20416-M1	M 1	0.25	40	5	5	2.5	2.1	5	3
		20416-M1,2	20416-M1,2	M 1.2	0.25	40	5	5	2.5	2.1	5	3
		20416-M1,4	20416-M1,4	M 1.4	0.3	40	5	5	2.5	2.1	5	3
		20416-M1,6	20416-M1,6	M 1.6	0.35	40	5	5	2.5	2.1	5	3
		20416-M1,8	20416-M1,8	M 1.8	0.35	40	5	5	2.5	2.1	5	3
		2041606-M2	20416-M2	M 2	0.4	45	8	8	2.8	2.1	5	3
		2041606-M2,5	20416-M2,5	M 2.2	0.45	45	8	8	2.8	2.1	5	3
		2041606-M3	20416-M3	M 3	0.5	56	10	10	3.5	2.7	6	3
		2041606-M3,5	20416-M3,5	M 3.5	0.6	56	12	12	4	3	6	3
		2041606-M4	20416-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
		2041606-M4,5	20416-M4,5	M 4.5	0.75	70	16	16	6	4.9	8	3
		2041606-M5	20416-M5	M 5	0.8	70	16	16	6	4.9	8	3
		2041606-M6	20416-M6	M 6	1	80	15	23	6	4.9	8	3
		2041606-M8	20416-M8	M 8	1.25	90	18	29.5	8	6.2	9	3
	2041606-M10	20416-M10	M 10	1.5	100	20	33.5	10	8	11	3	

≤ M 1.4: 5HX

DIN 376		Designation TICN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		2046606-M12	20466-M12	M 12	1.75	110	23	83	9	7	10	4
		2046606-M14	20466-M14	M 14	2	110	25	81	11	9	12	4
		2046606-M16	20466-M16	M 16	2	110	25	68	12	9	12	4
		20466-M20	20466-M20	M 20	2.5	140	30	95	16	12	15	4
		20466-M24	20466-M24	M 24	3	160	36	113	18	14.5	17	5
		20466-M30	20466-M30	M 30	3.5	180	42	115	22	18	21	5
		20466-M36	20466-M36	M 36	4	200	48	131	28	22	25	5

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

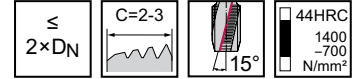
HSS-E PM machine taps

mm

Paradur® Ti Plus



- Recommended with emulsion
- For long-chipping materials



	P	M	K	N	S	H	O
ACN					●●		

~DIN 371		Designation ACN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>	2041663-M2	M 2	0.4	45	8	8	2.8	2.1	5	3	
	2041663-M2,5	M 2.5	0.45	50	9	30	2.8	2.1	5	3	
	2041663-M3	M 3	0.5	56	10	10	3.5	2.7	6	3	
	2041663-M3,5	M 3.5	0.6	56	12	12	4	3	6	3	
	2041663-M4	M 4	0.7	63	13	13	4.5	3.4	6	3	
	2041663-M5	M 5	0.8	70	16	16	6	4.9	8	3	
	2041663-M6	M 6	1	80	15	23	6	4.9	8	3	
	2041663-M8	M 8	1.25	90	18	29.5	8	6.2	9	3	
	2041663-M10	M 10	1.5	100	20	33.5	10	8	11	3	

DIN 376		Designation ACN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>	2046663-M12	M 12	1.75	110	23	83	9	7	10	4	
	2046663-M16	M 16	2	110	25	68	12	9	12	4	
	2046663-M20	M 20	2.5	140	30	95	16	12	15	4	

HSS-E PM machine taps

mm

Paradur® FT



- For short-chipping materials

$\leq 2 \times D_N$

$D=3,5-5$

51HRC
 1700
 -900
 N/mm²

M
 DIN 13

ISO2/6H

	P	M	K	N	S	H	O
uncoated					●		●

~DIN 371	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	d_1 h9 mm	□ mm	l_9 mm	N
	20316-M3	M 3	0.5	56	11	3.5	2.7	6	3
	20316-M4	M 4	0.7	63	13	4.5	3.4	6	5
	20316-M5	M 5	0.8	70	16	6	4.9	8	5
	20316-M6	M 6	1	80	20	6	4.9	8	5
	20316-M8	M 8	1.25	90	25	8	6.2	9	5
	20316-M10	M 10	1.5	100	30	10	8	11	5
	Parallel shank								

Without reduced neck after the thread

C1

WALTER SELECT

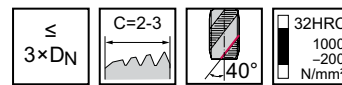
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

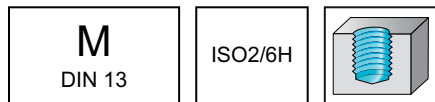
HSS-E machine taps

mm

Paradur® Uni

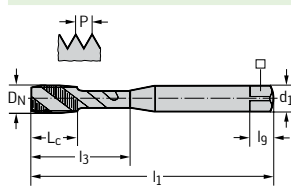


- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●		●	●			
VAP	●●		●	●			
uncoated	●●		●	●			

DIN 371

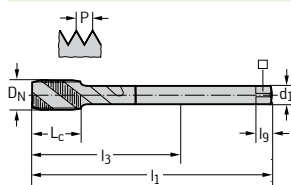


Parallel shank

Designation TIN	Designation VAP	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		7051770-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
		7051770-M2,5	M 2.5	0.45	50	4	12.5	2.8	2.1	5	3
		7051770-M2,6	M 2.6	0.45	50	4	12.5	2.8	2.1	5	3
7051775-M3	7051773-M3	7051770-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
		7051770-M3,5	M 3.5	0.6	56	6.5	20	4	3	6	3
7051775-M4	7051773-M4	7051770-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
7051775-M5	7051773-M5	7051770-M5	M 5	0.8	70	8	25	6	4.9	8	3
7051775-M6	7051773-M6	7051770-M6	M 6	1	80	10	30	6	4.9	8	3
7051775-M7		7051770-M7	M 7	1	80	10	30	7	5.5	8	3
7051775-M8	7051773-M8	7051770-M8	M 8	1.25	90	12	35	8	6.2	9	3
7051775-M10	7051773-M10	7051770-M10	M 10	1.5	100	15	39	10	8	11	3

l_g dimensions in accordance with DIN 10

DIN 376



Parallel shank

Designation TIN	Designation VAP	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		7056770-M3	M 3	0.5	56	6	34	2.2	1.8	4	3
		7056770-M4	M 4	0.7	63	7	43	2.8	2.1	5	3
		7056770-M5	M 5	0.8	70	8	49	3.5	2.7	6	3
		7056770-M6	M 6	1	80	10	59	4.5	3.4	6	3
		7056770-M8	M 8	1.25	90	12	67	6	4.9	8	3
		7056770-M10	M 10	1.5	100	15	77	7	5.5	8	3
7056775-M12	7056773-M12	7056770-M12	M 12	1.75	110	16	83	9	7	10	3
7056775-M14	7056773-M14	7056770-M14	M 14	2	110	20	81	11	9	12	3
7056775-M16	7056773-M16	7056770-M16	M 16	2	110	20	68	12	9	12	4
7056775-M18		7056770-M18	M 18	2.5	125	25	81	14	11	14	4
7056775-M20		7056770-M20	M 20	2.5	140	25	95	16	12	15	4
		7056770-M22	M 22	2.5	140	25	93	18	14.5	17	4
		7056770-M24	M 24	3	160	30	113	18	14.5	17	4
		7056770-M27	M 27	3	160	30	97	20	16	19	4
		7056770-M30	M 30	3.5	180	35	115	22	18	21	4
		7056770-M33	M 33	3.5	180	35	113	25	20	23	4
		7056770-M36	M 36	4	200	40	131	28	22	25	4

l_g dimensions in accordance with DIN 10

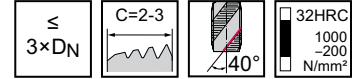
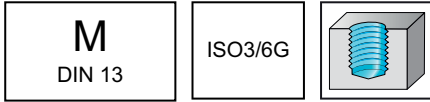
HSS-E machine taps

mm

Paradur® Uni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●	●			

DIN 371	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	uncoated									
<p>Parallel shank</p>	7053770-M2	M 2	0.4	45	4	9	2.8	2.1	5	3
	7053770-M3	M 3	0.5	56	6	18	3.5	2.7	6	3
	7053770-M4	M 4	0.7	63	7	21	4.5	3.4	6	3
	7053770-M5	M 5	0.8	70	8	25	6	4.9	8	3
	7053770-M6	M 6	1	80	10	30	6	4.9	8	3
	7053770-M8	M 8	1.25	90	12	35	8	6.2	9	3
	7053770-M10	M 10	1.5	100	15	39	10	8	11	3

DIN 376	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	uncoated									
<p>Parallel shank</p>	7058770-M12	M 12	1.75	110	16	83	9	7	10	3
	7058770-M14	M 14	2	110	20	81	11	9	12	3
	7058770-M16	M 16	2	110	20	68	12	9	12	4
	7058770-M20	M 20	2.5	140	25	95	16	12	15	4

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials

MF
DIN 13

6HX

$\leq 3,5 \times D_N$

B=3,5-5

42HRC
1350-500
N/mm²

THL	P	M	K	N	S	H	O
	●●	●●	●●	●●			

DIN 374	Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>	EP2126302-M6X0,75	MF 6	0,75	80	15	59	4,5	3,4	6	3
	EP2126302-M8X1	MF 8	1	90	18	67	6	4,9	8	3
	EP2126302-M10X1	MF 10	1	90	20	67	7	5,5	8	3
	EP2126302-M10X1,25	MF 10	1,25	100	20	77	7	5,5	8	3
	EP2126302-M12X1	MF 12	1	100	21	73	9	7	10	4
	EP2126302-M12X1,25	MF 12	1,25	100	21	73	9	7	10	4
	EP2126302-M12X1,5	MF 12	1,5	100	21	73	9	7	10	4
	EP2126302-M14X1,5	MF 14	1,5	100	21	71	11	9	12	4
	EP2126302-M16X1,5	MF 16	1,5	100	21	58	12	9	12	4
	EP2126302-M18X1,5	MF 18	1,5	110	24	66	14	11	14	4
	EP2126302-M20X1,5	MF 20	1,5	125	24	80	16	12	15	4
	EP2126302-M22X1,5	MF 22	1,5	125	24	78	18	14,5	17	4

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials

MF
DIN 13

6HX

$\leq 3,5 \times D_N$

$B=3,5-5$

42HRC
1350-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 374	Designation THL	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>	EP2126342-M8X1	MF 8	1	90	18	67	6	4.9	8	3
	EP2126342-M10X1	MF 10	1	90	20	67	7	5.5	8	3
	EP2126342-M10X1,25	MF 10	1.25	100	20	77	7	5.5	8	3
	EP2126342-M12X1	MF 12	1	100	21	73	9	7	10	4
	EP2126342-M12X1,25	MF 12	1.25	100	21	73	9	7	10	4
	EP2126342-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
	EP2126342-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
	EP2126342-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
	EP2126342-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
	EP2126342-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4

C1

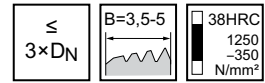
WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

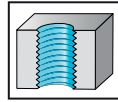
HSS-E machine taps

TD217 Advance mm

Thread-tec™ Omni

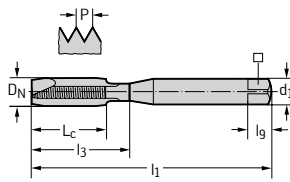


– For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (THL)	●	●●	●	●●			

DIN 371

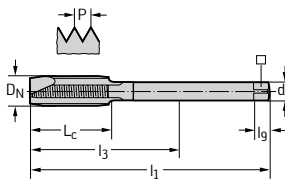


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
★ TD217-M2X0,25-C0-	MF 2	0.25	45	6	9	2.8	2.1	5	2		☠
★ TD217-M2,2X,25-C0-	MF 2.2	0.25	45	7	12	2.8	2.1	5	2		☠
★ TD217-M2,3X,25-C0-	MF 2.3	0.25	45	7	12	2.8	2.1	5	2		☠
★ TD217-M2,5X,35-C0-	MF 2.5	0.35	50	8	12.5	2.8	2.1	5	2		☠
★ TD217-M3X0,25-C0-	MF 3	0.25	56	6	15.6	3.5	2.7	6	2		☠
★ TD217-M3X0,35-C0-	MF 3	0.35	56	9	16.2	3.5	2.7	6	2		☠
★ TD217-M3,5X,35-C0-	MF 3.5	0.35	56	11	18.2	4	3	6	2		☠
★ TD217-M4X0,35-C0-	MF 4	0.35	63	12	19.2	4.5	3.4	6	2		☠
★ TD217-M4X0,5-C0-	MF 4	0.5	63	12	19.2	4.5	3.4	6	2		☠
★ TD217-M4,5X0,5-C0-	MF 4.5	0.5	70	13	22.6	6	4.9	8	3		☠
★ TD217-M5X0,5-C0-	MF 5	0.5	70	13	22.6	6	4.9	8	3	☠	☠
★ TD217-M6X0,5-C0-	MF 6	0.5	80	15	27	6	4.9	8	3	☠	☠
★ TD217-M5X0,75-C0-	MF 5	0.75	70	13	22.6	6	4.9	8	3		☠
★ TD217-M6X0,75-C0-	MF 6	0.75	80	15	27	6	4.9	8	3	☠	☠
★ TD217-M7X0,75-C0-	MF 7	0.75	80	15	27	7	5.5	8	3		☠
★ TD217-M8X1-C0-	MF 8	1	90	18	32	8	6.2	9	3		☠
★ TD217-M10X1-C0-	MF 10	1	90	20	35	10	8	11	3		☠

Ordering example for the grade WY80FC: TD217-M10X1-C0-WY80FC

DIN 374



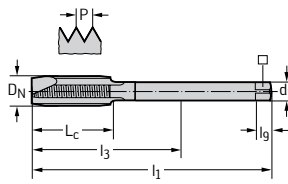
Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC	WY80RG
★ TD217-M5X0,5-L0-	MF 5	0.5	70	13	22.6	3.5	2.7	6	3	☒	☒	
★ TD217-M6X0,5-L0-	MF 6	0.5	80	15	27	4.5	3.4	6	3	☒	☒	
★ TD217-M6X0,75-L0-	MF 6	0.75	80	15	27	4.5	3.4	6	3	☒	☒	☒
★ TD217-M8X0,5-L0-	MF 8	0.5	80	15	33	6	4.9	8	3	☒	☒	
★ TD217-M8X0,75-L0-	MF 8	0.75	80	15	33	6	4.9	8	3	☒	☒	
★ TD217-M8X1-L0-	MF 8	1	90	18	33	6	4.9	8	3	☒	☒	☒
★ TD217-M10X0,5-L0-	MF 10	0.5	90	20	37	7	5.5	8	3		☒	
★ TD217-M10X0,75-L0-	MF 10	0.75	90	20	37	7	5.5	8	3		☒	
★ TD217-M9X1-L0-	MF 9	1	90	18	33	7	5.5	8	3		☒	
★ TD217-M10X1-L0-	MF 10	1	90	20	37	7	5.5	8	3	☒	☒	☒
★ TD217-M10X1,25-L0-	MF 10	1.25	100	20	37	7	5.5	8	3	☒	☒	☒
★ TD217-M12X0,5-L0-	MF 12	0.5	100	21	37	9	7	10	4		☒	
★ TD217-M12X1-L0-	MF 12	1	100	21	37	9	7	10	4	☒	☒	☒
★ TD217-M12X1,25-L0-	MF 12	1.25	100	21	37	9	7	10	4		☒	☒
★ TD217-M12X1,5-L0-	MF 12	1.5	100	21	37	9	7	10	4	☒	☒	☒
★ TD217-M14X1-L0-	MF 14	1	100	21	42	11	9	12	4		☒	
★ TD217-M14X1,25-L0-	MF 14	1.25	100	21	42	11	9	12	4		☒	
★ TD217-M14X1,5-L0-	MF 14	1.5	100	21	42	11	9	12	4	☒	☒	☒
★ TD217-M16X1-L0-	MF 16	1	100	21	43	12	9	12	4		☒	
★ TD217-M16X1,5-L0-	MF 16	1.5	100	21	43	12	9	12	4	☒	☒	☒
★ TD217-M18X1-L0-	MF 18	1	110	24	47	14	11	14	4		☒	
★ TD217-M18X1,5-L0-	MF 18	1.5	110	24	47	14	11	14	4	☒	☒	☒
★ TD217-M18X2-L0-	MF 18	2	125	30	54	14	11	14	4		☒	
★ TD217-M20X1-L0-	MF 20	1	125	24	52	16	12	15	4		☒	
★ TD217-M20X1,5-L0-	MF 20	1.5	125	24	52	16	12	15	4	☒	☒	☒
★ TD217-M20X2-L0-	MF 20	2	140	30	60	16	12	15	4		☒	
★ TD217-M22X1-L0-	MF 22	1	125	24	53	18	14.5	17	4		☒	
★ TD217-M24X1-L0-	MF 24	1	140	26	59	18	14.5	17	4		☒	
★ TD217-M22X1,5-L0-	MF 22	1.5	125	24	53	18	14.5	17	4	☒	☒	☒
★ TD217-M24X1,5-L0-	MF 24	1.5	140	26	59	18	14.5	17	4	☒	☒	
★ TD217-M25X1,5-L0-	MF 25	1.5	140	26	59	18	14.5	17	4		☒	
★ TD217-M26X1,5-L0-	MF 26	1.5	140	26	59	18	14.5	17	4		☒	
★ TD217-M22X2-L0-	MF 22	2	140	26	59	18	14.5	17	4		☒	
★ TD217-M24X2-L0-	MF 24	2	140	26	59	18	14.5	17	4	☒	☒	
★ TD217-M27X1-L0-	MF 27	1	140	26	59	20	16	19	4		☒	

Ordering example for the grade WY80FC: TD217-M10X0,5-L0-WY80FC

C1

DIN 374



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC	WY80RG
★ TD217-M27X1,5-L0-	MF 27	1.5	140	26	59	20	16	19	4		☒	
★ TD217-M28X1,5-L0-	MF 28	1.5	140	26	59	20	16	19	4		☒	
★ TD217-M27X2-L0-	MF 27	2	140	26	59	20	16	19	4	☒	☒	
★ TD217-M30X1-L0-	MF 30	1	150	26	63	22	18	21	4		☒	
★ TD217-M30X1,5-L0-	MF 30	1.5	150	26	63	22	18	21	4	☒	☒	
★ TD217-M32X1,5-L0-	MF 32	1.5	150	26	63	22	18	21	4		☒	
★ TD217-M30X2-L0-	MF 30	2	150	26	63	22	18	21	4	☒	☒	
★ TD217-M32X2-L0-	MF 32	2	150	26	63	22	18	21	4		☒	
★ TD217-M33X1,5-L0-	MF 33	1.5	160	28	67	25	20	23	5		☒	
★ TD217-M33X2-L0-	MF 33	2	160	28	67	25	20	23	5		☒	
★ TD217-M38X1,5-L0-	MF 38	1.5	170	28	51	28	22	25	5		☒	
★ TD217-M35X1,5-L0-	MF 35	1.5	170	28	71	28	22	25	5		☒	
★ TD217-M36X1,5-L0-	MF 36	1.5	170	28	71	28	22	25	5		☒	
★ TD217-M36X2-L0-	MF 36	2	170	28	71	28	22	25	5		☒	
★ TD217-M36X3-L0-	MF 36	3	200	39	85	28	22	25	5		☒	
★ TD217-M40X1,5-L0-	MF 40	1.5	170	28	51	32	24	27	5		☒	
★ TD217-M42X1,5-L0-	MF 42	1.5	170	28	51	32	24	27	5		☒	
★ TD217-M39X2-L0-	MF 39	2	170	28	51	32	24	27	5		☒	
★ TD217-M40X2-L0-	MF 40	2	170	28	51	32	24	27	5		☒	
★ TD217-M42X2-L0-	MF 42	2	170	28	51	32	24	27	5		☒	
★ TD217-M42X3-L0-	MF 42	3	200	42	65	32	24	27	5		☒	
★ TD217-M45X1,5-L0-	MF 45	1.5	180	28	53	36	29	32	5		☒	
★ TD217-M48X1,5-L0-	MF 48	1.5	190	28	55	36	29	32	6		☒	
★ TD217-M50X1,5-L0-	MF 50	1.5	190	28	55	36	29	32	6		☒	
★ TD217-M48X3-L0-	MF 48	3	225	45	72	36	29	32	6		☒	

Ordering example for the grade WY80FC: TD217-M10X0,5-L0-WY80FC

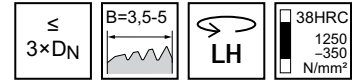
HSS-E machine taps

TD217 Advance

Thread-tec™ Omni



– For long-chipping materials



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN 374		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80FC
<p>Parallel shank</p>	★	TD217-M8X1-LL-	MF 8	1	90	18	33	6	4.9	8	3	☒
	★	TD217-M10X1-LL-	MF 10	1	90	20	37	7	5.5	8	3	☒
	★	TD217-M12X1-LL-	MF 12	1	100	21	37	9	7	10	4	☒
	★	TD217-M12X1,5-LL-	MF 12	1.5	100	21	37	9	7	10	4	☒
	★	TD217-M14X1,5-LL-	MF 14	1.5	100	21	42	11	9	12	4	☒
	★	TD217-M16X1-LL-	MF 16	1	100	21	43	12	9	12	4	☒
	★	TD217-M16X1,5-LL-	MF 16	1.5	100	21	43	12	9	12	4	☒
	★	TD217-M18X1,5-LL-	MF 18	1.5	110	24	47	14	11	14	4	☒
	★	TD217-M20X1,5-LL-	MF 20	1.5	125	24	52	16	12	15	4	☒

Ordering example for the grade WY80FC: TD217-M10X1-LL-WY80FC

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E machine taps

TD217 Advance mm

Thread-tec™ Omni



- For long-chipping materials

\leq
3×DN

B=3,5-5

38HRC
 1250
 -350
 N/mm²

MF
DIN 13

ISO3/6G

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			

DIN 374	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
<p>Parallel shank</p>	★ TD217-M4X0,5-N0-	MF 4	0.5	63	12	19.2	2.8	2.1	5	3		☒
	★ TD217-M5X0,5-N0-	MF 5	0.5	70	13	22.6	3.5	2.7	6	3		☒
	★ TD217-M6X0,5-N0-	MF 6	0.5	80	15	27	4.5	3.4	6	3		☒
	★ TD217-M6X0,75-N0-	MF 6	0.75	80	15	27	4.5	3.4	6	3		☒
	★ TD217-M8X0,75-N0-	MF 8	0.75	80	15	33	6	4.9	8	3		☒
	★ TD217-M8X1-N0-	MF 8	1	90	18	33	6	4.9	8	3	☒	☒
	★ TD217-M10X1-N0-	MF 10	1	90	20	37	7	5.5	8	3	☒	☒
	★ TD217-M10X1,25-N0-	MF 10	1.25	100	20	37	7	5.5	8	3		☒
	★ TD217-M12X1-N0-	MF 12	1	100	21	37	9	7	10	4	☒	☒
	★ TD217-M12X1,25-N0-	MF 12	1.25	100	21	37	9	7	10	4		☒
	★ TD217-M12X1,5-N0-	MF 12	1.5	100	21	37	9	7	10	4	☒	☒
	★ TD217-M14X1,5-N0-	MF 14	1.5	100	21	42	11	9	12	4	☒	☒
	★ TD217-M16X1,5-N0-	MF 16	1.5	100	21	43	12	9	12	4	☒	☒
	★ TD217-M18X1,5-N0-	MF 18	1.5	110	24	47	14	11	14	4		☒
	★ TD217-M20X1,5-N0-	MF 20	1.5	125	24	52	16	12	15	4	☒	☒
	★ TD217-M22X1,5-N0-	MF 22	1.5	125	24	53	18	14.5	17	4		☒
★ TD217-M24X1,5-N0-	MF 24	1.5	140	26	59	18	14.5	17	4	☒	☒	

Ordering example for the grade WY80AA: TD217-M10X1-N0-WY80AA

HSS-E machine taps

TC216 Perform



- For long-chipping materials

$\leq 3 \times D_N$

B=3,5-5

32HRC
1000-350
N/mm²

MF

DIN 13

ISO2/6H

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			
WY80FC (VAP)	●●	●●	●●	●●			

DIN 374												
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80FC
<p>Parallel shank</p>	TC216-M8X1-L0-	MF 8	1	90	18	67	6	4.9	8	3	☼	☼
	TC216-M10X1-L0-	MF 10	1	90	20	67	7	5.5	8	3	☼	☼
	TC216-M10X1,25-L0-	MF 10	1.25	100	20	77	7	5.5	8	3	☼	☼
	TC216-M12X1,25-L0-	MF 12	1.25	100	21	73	9	7	10	4	☼	☼
	TC216-M12X1,5-L0-	MF 12	1.5	100	21	73	9	7	10	4	☼	☼
	TC216-M14X1,5-L0-	MF 14	1.5	100	21	71	11	9	12	4	☼	☼
	TC216-M16X1,5-L0-	MF 16	1.5	100	21	58	12	9	12	4	☼	☼
	TC216-M18X1,5-L0-	MF 18	1.5	110	24	66	14	11	14	4	☼	☼

Ordering example for the grade WY80AA: TC216-M10X1-L0-WY80AA

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

Prototex® Synchronspeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)

\leq
3×DN

B=3,5-5

44HRC
 1400
 N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●		●●
THL	●●	●●	●●	●●	●●		●●

~DIN 371	Designation	Designation	D _N	P	l ₁	L _c	l ₃	d ₁	h ₆	□	l ₉	N
	THL	TIN										
	S2126302-M8X1	S2126305-M8X1	MF 8	1	90	10	35	8	6.2	9	3	
	S2126302-M10X1,25	S2126305-M10X1,25	MF 10	1.25	100	13	39	10	8	11	3	
	S2126302-M12X1,25	S2126305-M12X1,25	MF 12	1.25	100	13	42	12	9	12	3	
	S2126302-M12X1,5	S2126305-M12X1,5	MF 12	1.5	100	15	42	12	9	12	3	
	S2126302-M14X1,5	S2126305-M14X1,5	MF 14	1.5	100	15	49	14	11	14	3	
	S2126302-M16X1,5	S2126305-M16X1,5	MF 16	1.5	100	15	50	16	12	15	4	

Parallel shank

C1

HSS-E machine taps

mm

Prototex® X-pert P



– For long-chipping materials

$\leq 3 \times D_N$

MF

DIN 13

ISO2/6H

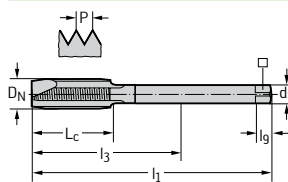
	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 374		Designation TIN	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		P21360-M4X0,5	P21360-M4X0,5	MF 4	0,5	63	12	43	2,8	2,1	5	3
		P2136005-M5X0,5	P21360-M5X0,5	MF 5	0,5	70	13	49	3,5	2,7	6	3
		P2136005-M6X0,5	P21360-M6X0,5	MF 6	0,5	80	15	59	4,5	3,4	6	3
		P2136005-M6X0,75	P21360-M6X0,75	MF 6	0,75	80	15	59	4,5	3,4	6	3
		P2136005-M8X0,5	P21360-M8X0,5	MF 8	0,5	80	15	57	6	4,9	8	3
		P2136005-M8X0,75	P21360-M8X0,75	MF 8	0,75	80	15	57	6	4,9	8	3
		P2136005-M8X1	P21360-M8X1	MF 8	1	90	18	67	6	4,9	8	3
			P21360-M9X1	MF 9	1	90	18	67	7	5,5	8	3
			P21360-M10X0,5	MF 10	0,5	90	20	67	7	5,5	8	3
			P21360-M10X0,75	MF 10	0,75	90	20	67	7	5,5	8	3
		P2136005-M10X1	P21360-M10X1	MF 10	1	90	20	67	7	5,5	8	3
		P2136005-M10X1,25	P21360-M10X1,25	MF 10	1,25	100	20	77	7	5,5	8	3
			P21360-M12X0,5	MF 12	0,5	100	21	73	9	7	10	4
		P2136005-M12X1	P21360-M12X1	MF 12	1	100	21	73	9	7	10	4
			P21360-M12X1,25	MF 12	1,25	100	21	73	9	7	10	4
		P2136005-M12X1,5	P21360-M12X1,5	MF 12	1,5	100	21	73	9	7	10	4
			P21360-M14X1	MF 14	1	100	21	71	11	9	12	4
			P21360-M14X1,25	MF 14	1,25	100	21	71	11	9	12	4
		P2136005-M14X1,5	P21360-M14X1,5	MF 14	1,5	100	21	71	11	9	12	4
			P21360-M16X1	MF 16	1	100	21	58	12	9	12	4
		P2136005-M16X1,5	P21360-M16X1,5	MF 16	1,5	100	21	58	12	9	12	4
			P21360-M18X1	MF 18	1	110	24	66	14	11	14	4
		P2136005-M18X1,5	P21360-M18X1,5	MF 18	1,5	110	24	66	14	11	14	4
			P21360-M18X2	MF 18	2	125	30	81	14	11	14	4
			P21360-M20X1	MF 20	1	125	24	80	16	12	15	4
		P2136005-M20X1,5	P21360-M20X1,5	MF 20	1,5	125	24	80	16	12	15	4
		P21360-M20X2	MF 20	2	140	30	95	16	12	15	4	
		P21360-M22X1	MF 22	1	125	24	78	18	14,5	17	4	
	P2136005-M22X1,5	P21360-M22X1,5	MF 22	1,5	125	24	78	18	14,5	17	4	
		P21360-M22X2	MF 22	2	140	26	93	18	14,5	17	4	
		P21360-M24X1	MF 24	1	140	26	93	18	14,5	17	4	
	P2136005-M24X1,5	P21360-M24X1,5	MF 24	1,5	140	26	93	18	14,5	17	4	
	P2136005-M24X2	P21360-M24X2	MF 24	2	140	26	93	18	14,5	17	4	
		P21360-M25X1,5	MF 25	1,5	140	26	93	18	14,5	17	4	
		P21360-M26X1,5	MF 26	1,5	140	26	93	18	14,5	17	4	

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

DIN 374


Parallel shank

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
	P21360-M27X1	MF 27	1	140	26	77	20	16	19	4
	P21360-M27X1,5	MF 27	1.5	140	26	77	20	16	19	4
P2136005-M27X2	P21360-M27X2	MF 27	2	140	26	77	20	16	19	4
	P21360-M28X1,5	MF 28	1.5	140	26	77	20	16	19	4
	P21360-M30X1	MF 30	1	150	26	85	22	18	21	4
P2136005-M30X1,5	P21360-M30X1,5	MF 30	1.5	150	26	85	22	18	21	4
P2136005-M30X2	P21360-M30X2	MF 30	2	150	26	85	22	18	21	4
	P21360-M32X1,5	MF 32	1.5	150	26	85	22	18	21	4
	P21360-M32X2	MF 32	2	150	26	85	22	18	21	4
	P21360-M33X1,5	MF 33	1.5	160	28	93	25	20	23	4
	P21360-M33X2	MF 33	2	160	28	93	25	20	23	4
	P21360-M35X1,5	MF 35	1.5	170	28	101	28	22	25	4
	P21360-M36X1,5	MF 36	1.5	170	28	101	28	22	25	4
	P21360-M36X2	MF 36	2	170	28	101	28	22	25	4
	P21360-M36X3	MF 36	3	200	39	131	28	22	25	4
	P21360-M38X1,5	MF 38	1.5	170	28	101	28	22	25	5
	P21360-M39X2	MF 39	2	170	28	72	32	24	27	4
	P21360-M40X1,5	MF 40	1.5	170	28	72	32	24	27	5
	P21360-M40X2	MF 40	2	170	28	72	32	24	27	4
	P21360-M42X1,5	MF 42	1.5	170	28	72	32	24	27	5
	P21360-M42X2	MF 42	2	170	28	72	32	24	27	4
	P21360-M42X3	MF 42	3	200	42	102	32	24	27	4
	P21360-M45X1,5	MF 45	1.5	180	28	77	36	29	32	5
	P21360-M48X1,5	MF 48	1.5	190	28	87	36	29	32	5
	P21360-M48X3	MF 48	3	225	45	122	36	29	32	4
	P21360-M50X1,5	MF 50	1.5	190	28	87	36	29	32	5

C1

HSS-E machine taps

mm

Prototex® X-pert P



- Reduced number of grooves
- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000-200
 N/mm²

MF
DIN 13

ISO2/6H

uncoated	P	M	K	N	S	H	O
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DIN 371	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
<p>Parallel shank</p>	P21210-M2X0,25	MF 2	0.25	45	6	9	2.8	2.1	5	2
	P21210-M2,2X0,25	MF 2.2	0.25	45	7	12	2.8	2.1	5	2
	P21210-M2,3X0,25	MF 2.3	0.25	45	7	12	2.8	2.1	5	2
	P21210-M2,5X0,35	MF 2.5	0.35	50	8	12.5	2.8	2.1	5	2
	P21210-M3X0,25	MF 3	0.25	56	6	18	3.5	2.7	6	2
	P21210-M3X0,35	MF 3	0.35	56	9	18	3.5	2.7	6	2
	P21210-M3,5X0,35	MF 3.5	0.35	56	11	20	4	3	6	2
	P21210-M4X0,35	MF 4	0.35	63	12	21	4.5	3.4	6	2
	P21210-M4X0,5	MF 4	0.5	63	12	21	4.5	3.4	6	2
	P21210-M4,5X0,5	MF 4.5	0.5	70	13	25	6	4.9	8	2
	P21210-M5X0,5	MF 5	0.5	70	13	25	6	4.9	8	3
	P21210-M5X0,75	MF 5	0.75	70	13	25	6	4.9	8	3
	P21210-M6X0,5	MF 6	0.5	80	15	30	6	4.9	8	3
	P21210-M6X0,75	MF 6	0.75	80	15	30	6	4.9	8	3
	P21210-M7X0,75	MF 7	0.75	80	15	30	7	5.5	8	3
	P21210-M8X1	MF 8	1	90	18	35	8	6.2	9	3
	P21210-M10X1	MF 10	1	90	20	39	10	8	11	3

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

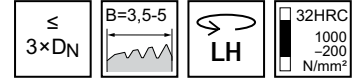
HSS-E machine taps

mm

Prototex® X-pert P

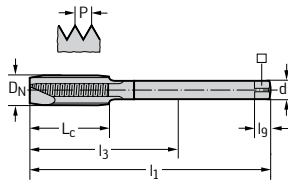


- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 374



Parallel shank

Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
P212608-M8X1	MF 8	1	90	18	67	6	4.9	8	3
P212608-M10X1	MF 10	1	90	20	67	7	5.5	8	3
P212608-M12X1	MF 12	1	100	21	73	9	7	10	4
P212608-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
P212608-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
P212608-M16X1	MF 16	1	100	21	58	12	9	12	4
P212608-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
P212608-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
P212608-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000
 -200
 N/mm²

MF
DIN 13

ISO3/6G

	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 374		Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>		P21380-M4X0,5	MF 4	0.5	63	12	43	2.8	2.1	5	3	
		P21380-M5X0,5	MF 5	0.5	70	13	49	3.5	2.7	6	3	
		P21380-M6X0,5	MF 6	0.5	80	15	59	4.5	3.4	6	3	
		P21380-M6X0,75	MF 6	0.75	80	15	59	4.5	3.4	6	3	
		P21380-M8X0,75	MF 8	0.75	80	15	57	6	4.9	8	3	
	P2138005-M8X1	P21380-M8X1	MF 8	1	90	18	67	6	4.9	8	3	
	P2138005-M10X1	P21380-M10X1	MF 10	1	90	20	67	7	5.5	8	3	
		P21380-M10X1,25	MF 10	1.25	100	20	77	7	5.5	8	3	
	P2138005-M12X1	P21380-M12X1	MF 12	1	100	21	73	9	7	10	4	
		P21380-M12X1,25	MF 12	1.25	100	21	73	9	7	10	4	
	P2138005-M12X1,5	P21380-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4	
	P2138005-M14X1,5	P21380-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4	
	P2138005-M16X1,5	P21380-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4	
		P21380-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4	
		P21380-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4	
		P21380-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	4	
	P21380-M24X1,5	MF 24	1.5	140	26	93	18	14.5	17	4		

C1

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert M



- For long-chipping materials

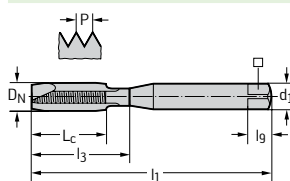
$\leq 3 \times D_N$ B=3,5-5 36HRC
 1200-700 N/mm²

MF
 DIN 13

6HX

	P	M	K	N	S	H	O
TIN	●	●●	■	■	■	■	■
VAP	●	●●	■	■	■	■	■

DIN 371

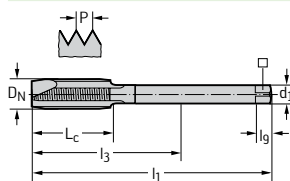


Parallel shank

Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
M2121305-M5X0,5		MF 5	0.5	70	13	25	6	4.9	8	3
M2121305-M6X0,5		MF 6	0.5	80	15	30	6	4.9	8	3
M2121305-M6X0,75		MF 6	0.75	80	15	30	6	4.9	8	3

C1

DIN 374



Parallel shank

Designation TIN	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
M2126305-M8X0,5	M21263-M8X0,5	MF 8	0.5	80	15	57	6	4.9	8	3
M2126305-M8X0,75	M21263-M8X0,75	MF 8	0.75	80	15	57	6	4.9	8	3
M2126305-M8X1	M21263-M8X1	MF 8	1	90	18	67	6	4.9	8	3
	M21263-M10X0,75	MF 10	0.75	90	20	67	7	5.5	8	3
M2126305-M10X1	M21263-M10X1	MF 10	1	90	20	67	7	5.5	8	3
M2126305-M10X1,25	M21263-M10X1,25	MF 10	1.25	100	20	77	7	5.5	8	3
	M21263-M12X1	MF 12	1	100	21	73	9	7	10	4
	M21263-M12X1,25	MF 12	1.25	100	21	73	9	7	10	4
M2126305-M12X1,5	M21263-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
	M21263-M14X1	MF 14	1	100	21	71	11	9	12	4
M2126305-M14X1,5	M21263-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
	M21263-M16X1	MF 16	1	100	21	58	12	9	12	4
M2126305-M16X1,5	M21263-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
M2126305-M18X1,5	M21263-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
M2126305-M20X1,5	M21263-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4
	M21263-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	4
	M21263-M24X1,5	MF 24	1.5	140	26	93	18	14.5	17	4

HSS-E machine taps

mm

Prototex® X-pert M



– For long-chipping materials

MF
DIN 13

6GX

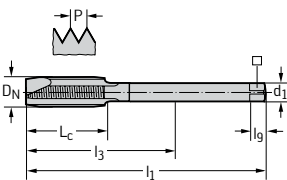


$\leq 3 \times D_N$

$B=3,5-5$

36HRC
1200
-700
N/mm²

	P	M	K	N	S	H	O
TIN	●	●●					

DIN 374	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
 <p>Parallel shank</p>	M2128305-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
	M2128305-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
	M2128305-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
	M2128305-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4
	M2128305-M24X1,5	MF 24	1.5	140	26	93	18	14.5	17	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi



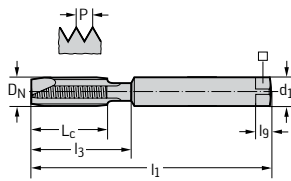
$\leq 2 \times D_N$

MF
DIN 13

6HX

	P	M	K	N	S	H	O
TiCN	●●	●●	●	●	●●		
uncoated	●●	●●	●	●	●●		

~DIN 371

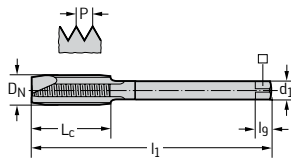


Parallel shank

Designation TiCN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
21216106-M8X0,75	212161-M8X0,75	MF 8	0.75	80	10	29	8	6.2	9	3
21216106-M8X1	212161-M8X1	MF 8	1	90	12	29	8	6.2	9	3
	212161-M10X1	MF 10	1	90	14	33	10	8	11	3

C1

DIN 374



Parallel shank

Designation TiCN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
21266106-M10X1,25	212661-M10X1,25	MF 10	1.25	100	20	77	7	5.5	8	3
21266106-M12X1	212661-M12X1	MF 12	1	100	16	73	9	7	10	4
21266106-M12X1,25	212661-M12X1,25	MF 12	1.25	100	21	73	9	7	10	4
21266106-M12X1,5	212661-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
21266106-M14X1	212661-M14X1	MF 14	1	100	16	71	11	9	12	4
21266106-M14X1,5	212661-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
21266106-M16X1	212661-M16X1	MF 16	1	100	18	58	12	9	12	4

HSS-E PM machine taps

mm

Prototex® TiNi Plus



- Recommended with emulsion
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
ACN					●●		

~DIN 371	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	2121763-M6X0,75	MF 6	0.75	80	15	23	6	4.9	8	3
	2121763-M8X0,75	MF 8	0.75	90	18	29.5	8	6.2	9	3
	2121763-M8X1	MF 8	1	90	18	29.5	8	6.2	9	3
	2121763-M10X1	MF 10	1	100	20	33.5	10	8	11	3

DIN 374	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	2126763-M12X1	MF 12	1	100	21	73	9	7	10	4
	2126763-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
	2126763-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

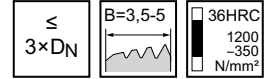
HSS-E PM machine taps

mm

Prototex® Sprint



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●		●			

DIN 374	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	7126365-M8X1	MF 8	1	90	18	62	6	4,9	8	3
	7126365-M10X1	MF 10	1	90	20	62	7	5,5	8	3
	7126365-M12X1,25	MF 12	1.25	100	21	67	9	7	10	4
	7126365-M12X1,5	MF 12	1.5	100	21	66	9	7	10	4
	7126365-M14X1,5	MF 14	1.5	100	21	64	11	9	12	4
	7126365-M16X1,5	MF 16	1.5	100	21	51	12	9	12	4
Parallel shank	7126365-M20X1,5	MF 20	1.5	125	24	73	16	12	15	4

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

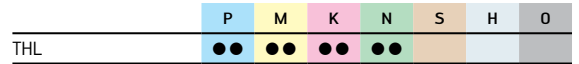
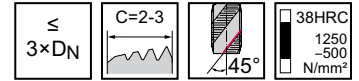
HSS-E PM machine taps

mm

Paradur® Eco Plus



- For long-chipping materials



DIN 374	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h ₉ mm	□ mm	l ₉ mm	N
	EP2156302-M6X0,75	MF 6	0,75	80	10	59	4,5	3,4	6	3
	EP2156302-M7X1	MF 7	1	80	10	58	5,5	4,3	7	3
	EP2156302-M8X1	MF 8	1	90	12	67	6	4,9	8	3
	EP2156302-M9X1	MF 9	1	90	13	67	7	5,5	8	3
	EP2156302-M10X1	MF 10	1	90	12	67	7	5,5	8	3
	EP2156302-M10X1,25	MF 10	1,25	100	15	77	7	5,5	8	3
	EP2156302-M11X1	MF 11	1	90	15	66	8	6,2	9	3
	EP2156302-M12X1	MF 12	1	100	13	73	9	7	10	4
	EP2156302-M12X1,25	MF 12	1,25	100	13	73	9	7	10	4
	EP2156302-M12X1,5	MF 12	1,5	100	13	73	9	7	10	4
	EP2156302-M14X1,25	MF 14	1,25	100	15	71	11	9	12	4
	EP2156302-M14X1,5	MF 14	1,5	100	15	71	11	9	12	4
	EP2156302-M16X1,5	MF 16	1,5	100	15	58	12	9	12	4
	EP2156302-M18X1,5	MF 18	1,5	110	17	66	14	11	14	4
	EP2156302-M20X1,5	MF 20	1,5	125	17	80	16	12	15	4
	EP2156302-M22X1,5	MF 22	1,5	125	18	78	18	14,5	17	4

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

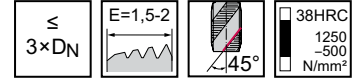
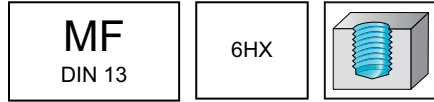
HSS-E PM machine taps

mm

Paradur® Eco Plus



- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 374	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2156362-M8X1	MF 8	1	90	12	67	6	4.9	8	4
	EP2156362-M10X1	MF 10	1	90	12	67	7	5.5	8	4
	EP2156362-M12X1,5	MF 12	1.5	100	13	73	9	7	10	4
	EP2156362-M14X1,5	MF 14	1.5	100	15	71	11	9	12	4

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials

MF
DIN 13

6HX

\leq
3×D_N

C=2-3

$\angle 45^\circ$

38HRC
1250
-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 374	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	EP2156312-M8X1	MF 8	1	90	12	67	6	4.9	8	3
	EP2156312-M10X1	MF 10	1	90	12	67	7	5.5	8	3
	EP2156312-M10X1,25	MF 10	1.25	100	15	77	7	5.5	8	3
	EP2156312-M12X1	MF 12	1	100	13	73	9	7	10	4
	EP2156312-M12X1,25	MF 12	1.25	100	13	73	9	7	10	4
	EP2156312-M12X1,5	MF 12	1.5	100	13	73	9	7	10	4
	EP2156312-M14X1,5	MF 14	1.5	100	15	71	11	9	12	4
	EP2156312-M16X1,5	MF 16	1.5	100	15	58	12	9	12	4
	EP2156312-M18X1,5	MF 18	1.5	110	17	66	14	11	14	4
	EP2156312-M20X1,5	MF 20	1.5	125	17	80	16	12	15	4

C1

WALTER SELECT

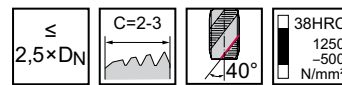
●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

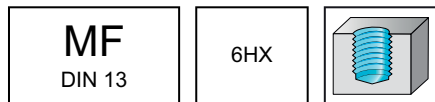
HSS-E machine taps

TD117 Advance mm

Thread-tec™ Omni

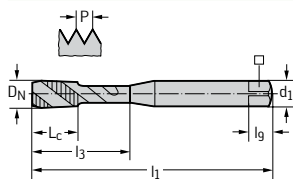


– Universal taps



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (THL)	●	●●	●	●●			

DIN 371

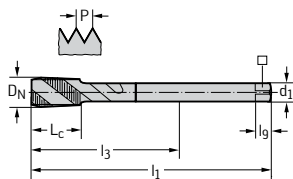


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	N	WY80AA	WY80FC
★ TD117-M4X0,5-C0-	MF 4	0.5	63	7	18	4.5	3.4	3	☒	☒
★ TD117-M5X0,5-C0-	MF 5	0.5	70	8	22	6	4.9	3	☒	☒
★ TD117-M6X0,5-C0-	MF 6	0.5	80	10	26	6	4.9	3	☒	☒
★ TD117-M6X0,75-C0-	MF 6	0.75	80	10	26	6	4.9	3		☒

Parallel shank

Ordering example for the grade WY80AA: TD117-M4X0,5-C0-WY80AA

DIN 374



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	N	WY80AA	WY80FC	WY80RG
★ TD117-M8X0,5-L0-	MF 6	0.5	80	10	30	6	4.9	3		☒	
★ TD117-M8X0,5-L0-	MF 8	0.5	80	10	30	6	4.9	3	☒		
★ TD117-M8X0,75-L0-	MF 8	0.75	80	10	30	6	4.9	3	☒	☒	
★ TD117-M10X0,75-L0-	MF 10	0.75	90	12	34	7	5.5	3	☒	☒	
★ TD117-M8X1-L0-	MF 8	1	90	12	30	6	4.9	3	☒	☒	☒
★ TD117-M10X1-L0-	MF 10	1	90	12	34	7	5.5	3	☒	☒	☒
★ TD117-M12X1-L0-	MF 12	1	100	13	38	9	7	4	☒	☒	
★ TD117-M14X1-L0-	MF 14	1	100	15	42	11	9	4		☒	
★ TD117-M10X1,25-L0-	MF 10	1.25	100	15	34	7	5.5	3	☒		
★ TD117-M12X1,25-L0-	MF 12	1.25	100	13	38	9	7	4	☒	☒	
★ TD117-M12X1,5-L0-	MF 12	1.5	100	13	38	9	7	4	☒	☒	☒
★ TD117-M14X1,5-L0-	MF 14	1.5	100	15	42	11	9	4		☒	
★ TD117-M14X1,5-L0-	MF 14	1.5	100	15	42	11	9	4	☒		☒
★ TD117-M16X1,5-L0-	MF 16	1.5	100	15	43	12	9	4	☒	☒	☒
★ TD117-M18X1,5-L0-	MF 18	1.5	110	17	47	14	11	4	☒	☒	☒
★ TD117-M20X1,5-L0-	MF 20	1.5	125	17	53	16	12	4	☒	☒	☒
★ TD117-M22X1,5-L0-	MF 22	1.5	125	18	54	18	14.5	5		☒	
★ TD117-M24X1,5-L0-	MF 24	1.5	140	20	60	18	14.5	5		☒	
★ TD117-M27X1,5-L0-	MF 27	1.5	140	20	60	20	16	5		☒	
★ TD117-M20X2-L0-	MF 20	2	140	25	61	16	12	4		☒	
★ TD117-M24X2-L0-	MF 24	2	140	20	60	18	14.5	5		☒	
★ TD117-M27X2-L0-	MF 27	2	140	20	60	20	16	5		☒	
★ TD117-M30X2-L0-	MF 30	2	150	20	64	22	18	5		☒	

Parallel shank

Ordering example for the grade WY80AA: TD117-M10X0,75-L0-WY80AA

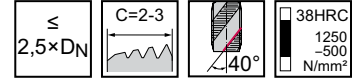
HSS-E machine taps

TD117 Advance

Thread-tec™ Omni



– Universal taps



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●			

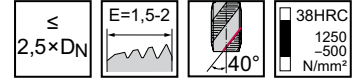
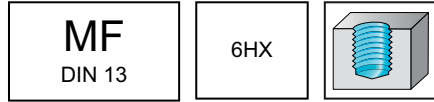
DIN 374		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	N	WY80AA
<p>Parallel shank</p>	★	TD117-M8X1-N0-	MF 8	1	90	12	30	6	4.9	3	☒
	★	TD117-M10X1-N0-	MF 10	1	90	12	34	7	5.5	3	☒
	★	TD117-M12X1-N0-	MF 12	1	100	13	38	9	7	4	☒
	★	TD117-M14X1-N0-	MF 14	1	100	15	42	11	9	4	☒
	★	TD117-M16X1-N0-	MF 16	1	100	15	43	12	9	4	☒
	★	TD117-M12X1,5-N0-	MF 12	1.5	100	13	38	9	7	4	☒
	★	TD117-M14X1,5-N0-	MF 14	1.5	100	15	42	11	9	4	☒
	★	TD117-M16X1,5-N0-	MF 16	1.5	100	15	43	12	9	4	☒

Ordering example for the grade WY80AA: TD117-M10X1-N0-WY80AA

HSS-E machine taps
TD117 Advance
Thread-tec™ Omni

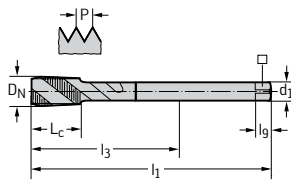


- Universal taps



	P	M	K	N	S	H	O
WY80RG (THL)	●	●●	●	●●			

DIN 374											WY80RG
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	N			
★ TD117-M8X1-LE-	MF 8	1	90	12	30	6	4.9	3			☒
★ TD117-M10X1-LE-	MF 10	1	90	12	34	7	5.5	3			☒
★ TD117-M12X1,5-LE-	MF 12	1.5	100	13	38	9	7	4			☒
★ TD117-M14X1,5-LE-	MF 14	1.5	100	15	42	11	9	4			☒
★ TD117-M16X1,5-LE-	MF 16	1.5	100	15	43	12	9	4			☒
★ TD117-M18X1,5-LE-	MF 18	1.5	110	17	47	14	11	4			☒



Parallel shank

Ordering example for the grade WY80RG: TD117-M10X1-LE-WY80RG

C1

WALTER SELECT ●● Primary application ● Other application

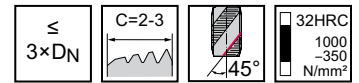
Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E machine taps

TC115 Perform mm

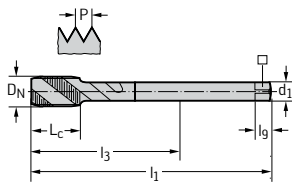


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			
WY80FC (VAP)	●●	●●	●●	●			

DIN 374											WY80AA	WY80FC
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N			
TC115-M8X1-L0-	MF 8	1	90	12	67	6	4.9	8	3	☹	☹	
TC115-M10X1-L0-	MF 10	1	90	12	67	7	5.5	8	3	☹	☹	
TC115-M10X1,25-L0-	MF 10	1.25	100	15	77	7	5.5	8	3	☹	☹	
TC115-M12X1,25-L0-	MF 12	1.25	100	13	73	9	7	10	4	☹	☹	
TC115-M12X1,5-L0-	MF 12	1.5	100	13	73	9	7	10	4	☹	☹	
TC115-M14X1,5-L0-	MF 14	1.5	100	15	71	11	9	12	4	☹	☹	
TC115-M16X1,5-L0-	MF 16	1.5	100	15	58	12	9	12	4	☹	☹	
TC115-M18X1,5-L0-	MF 18	1.5	110	17	66	14	11	14	4	☹	☹	



Parallel shank

Ordering example for the grade WY80AA: TC115-M10X1-L0-WY80AA

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine taps

mm

Paradur® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

40HRC
1300
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
TIN/VAP	●●	●●	●●	●	●		●
THL	●●	●●	●●	●	●		●

~DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N
	THL	TIN/VAP									
<p>Parallel shank</p>	S2156302-M8X1	S2156305-M8X1	MF 8	1	90	10.5	35	8	6.2	9	3
	S2156302-M10X1	S2156305-M10X1	MF 10	1	90	10.5	39	10	8	11	3
	S2156302-M10X1,25	S2156305-M10X1,25	MF 10	1.25	100	13.5	39	10	8	11	3
	S2156302-M12X1,25		MF 12	1.25	100	13.5	42	12	9	12	3
	S2156302-M12X1,5	S2156305-M12X1,5	MF 12	1.5	100	16	42	12	9	12	3
	S2156302-M14X1,5	S2156305-M14X1,5	MF 14	1.5	100	16	49	14	11	14	4
	S2156302-M16X1,5	S2156305-M16X1,5	MF 16	1.5	100	16	50	16	12	15	4

C1

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

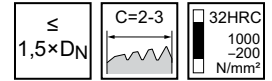
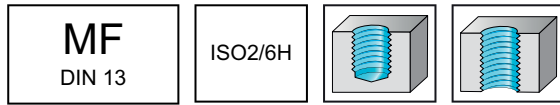
HSS-E machine taps

mm

Paradur® H



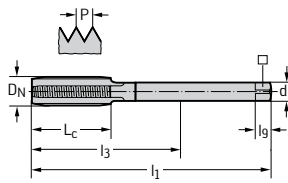
– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN 371	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
	21311-M2X0,25	MF 2	0.25	45	6	9	2.8	2.1	5	3
	21311-M2,2X0,25	MF 2.2	0.25	45	7	12	2.8	2.1	5	3
	21311-M2,5X0,35	MF 2.5	0.35	50	8	12.5	2.8	2.1	5	3
	21311-M3X0,35	MF 3	0.35	56	9	18	3.5	2.7	6	3
	21311-M3,5X0,35	MF 3.5	0.35	56	11	20	4	3	6	3
	21311-M4X0,35	MF 4	0.35	63	12	21	4.5	3.4	6	3
	21311-M4X0,5	MF 4	0.5	63	12	21	4.5	3.4	6	3
	21311-M5X0,35	MF 5	0.35	70	13	25	6	4.9	8	3
	21311-M5X0,5	MF 5	0.5	70	13	25	6	4.9	8	3
	21311-M6X0,75	MF 6	0.75	80	15	30	6	4.9	8	3
	21311-M7X0,75	MF 7	0.75	80	15	30	7	5.5	8	3

C1

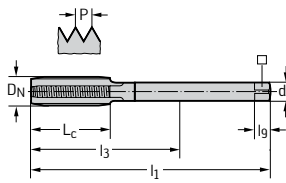
DIN 374


Parallel shank

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
21361-M4X0,5	MF 4	0.5	63	12	43	2.8	2.1	5	3
21361-M5X0,5	MF 5	0.5	70	13	49	3.5	2.7	6	3
21361-M6X0,5	MF 6	0.5	80	15	59	4.5	3.4	6	3
21361-M6X0,75	MF 6	0.75	80	15	59	4.5	3.4	6	3
21361-M7X0,5	MF 7	0.5	80	15	58	5.5	4.3	7	3
21361-M7X0,75	MF 7	0.75	80	15	58	5.5	4.3	7	3
21361-M8X0,5	MF 8	0.5	80	15	57	6	4.9	8	3
21361-M8X0,75	MF 8	0.75	80	15	57	6	4.9	8	3
21361-M8X1	MF 8	1	90	18	67	6	4.9	8	3
21361-M9X0,5	MF 9	0.5	90	15	67	7	5.5	8	3
21361-M9X0,75	MF 9	0.75	90	15	67	7	5.5	8	3
21361-M9X1	MF 9	1	90	18	67	7	5.5	8	3
21361-M10X0,5	MF 10	0.5	90	20	67	7	5.5	8	3
21361-M10X0,75	MF 10	0.75	90	20	67	7	5.5	8	3
21361-M10X1	MF 10	1	90	20	67	7	5.5	8	3
21361-M10X1,25	MF 10	1.25	100	20	77	7	5.5	8	3
21361-M11X1	MF 11	1	90	20	66	8	6.2	9	3
21361-M12X0,5	MF 12	0.5	100	21	73	9	7	10	3
21361-M12X0,75	MF 12	0.75	100	21	73	9	7	10	4
21361-M12X1	MF 12	1	100	21	73	9	7	10	4
21361-M12X1,25	MF 12	1.25	100	21	73	9	7	10	4
21361-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
21361-M14X1	MF 14	1	100	21	71	11	9	12	4
21361-M14X1,25	MF 14	1.25	100	21	71	11	9	12	4
21361-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
21361-M15X1,5	MF 15	1.5	100	21	58	12	9	12	4
21361-M16X1	MF 16	1	100	21	58	12	9	12	4
21361-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
21361-M18X1	MF 18	1	110	24	66	14	11	14	4
21361-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
21361-M18X2	MF 18	2	125	30	81	14	11	14	4
21361-M20X1	MF 20	1	125	24	80	16	12	15	4
21361-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4
21361-M20X2	MF 20	2	140	30	95	16	12	15	4
21361-M22X1	MF 22	1	125	24	78	18	14.5	17	4

C1

DIN 374



Parallel shank

Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
21361-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	4
21361-M22X2	MF 22	2	140	26	93	18	14.5	17	4
21361-M24X1	MF 24	1	140	26	93	18	14.5	17	4
21361-M24X1,5	MF 24	1.5	140	26	93	18	14.5	17	4
21361-M24X2	MF 24	2	140	26	93	18	14.5	17	4
21361-M25X1,5	MF 25	1.5	140	26	93	18	14.5	17	4
21361-M26X1,5	MF 26	1.5	140	26	93	18	14.5	17	4
21361-M27X1	MF 27	1	140	26	77	20	16	19	4
21361-M27X1,5	MF 27	1.5	140	26	77	20	16	19	4
21361-M27X2	MF 27	2	140	26	77	20	16	19	4
21361-M28X1,5	MF 28	1.5	140	26	77	20	16	19	4
21361-M28X2	MF 28	2	140	26	77	20	16	19	4
21361-M30X1	MF 30	1	150	26	85	22	18	21	4
21361-M30X1,5	MF 30	1.5	150	26	85	22	18	21	4
21361-M30X2	MF 30	2	150	26	85	22	18	21	4
21361-M32X1,5	MF 32	1.5	150	26	85	22	18	21	4
21361-M33X1,5	MF 33	1.5	160	28	93	25	20	23	4
21361-M33X2	MF 33	2	160	28	93	25	20	23	4
21361-M35X1,5	MF 35	1.5	170	28	101	28	22	25	4
21361-M36X1,5	MF 36	1.5	170	28	101	28	22	25	4
21361-M36X2	MF 36	2	170	28	101	28	22	25	4
21361-M36X3	MF 36	3	200	39	131	28	22	25	4
21361-M38X1,5	MF 38	1.5	170	28	101	28	22	25	6
21361-M39X1,5	MF 39	1.5	170	28	72	32	24	27	6
21361-M39X3	MF 39	3	200	42	102	32	24	27	4
21361-M40X1,5	MF 40	1.5	170	28	72	32	24	27	6
21361-M40X2	MF 40	2	170	28	72	32	24	27	4
21361-M42X1,5	MF 42	1.5	170	28	72	32	24	27	6
21361-M42X2	MF 42	2	170	28	72	32	24	27	4
21361-M42X3	MF 42	3	200	42	102	32	24	27	4
21361-M45X1,5	MF 45	1.5	180	28	77	36	29	32	6
21361-M45X2	MF 45	2	180	30	77	36	29	32	6
21361-M45X3	MF 45	3	200	42	97	36	29	32	4
21361-M48X1,5	MF 48	1.5	190	28	87	36	29	32	6
21361-M48X2	MF 48	2	190	30	87	36	29	32	6
21361-M48X3	MF 48	3	225	45	122	36	29	32	4
21361-M50X1,5	MF 50	1.5	190	28	87	36	29	32	6
21361-M52X1,5	MF 52	1.5	190	29	60	40	32	35	6
21361-M52X2	MF 52	2	190	32	60	40	32	35	6
21361-M52X3	MF 52	3	225	45	95	40	32	35	6

C1

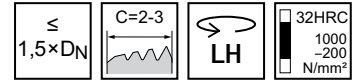
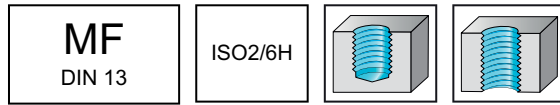
HSS-E machine taps

mm

Paradur® H



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN 374		Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>		21368-M4X0,5	MF 4	0.5	63	12	43	2.8	2.1	5	3
		21368-M5X0,5	MF 5	0.5	70	13	49	3.5	2.7	6	3
		21368-M6X0,5	MF 6	0.5	80	15	59	4.5	3.4	6	3
		21368-M6X0,75	MF 6	0.75	80	15	59	4.5	3.4	6	3
		21368-M8X0,5	MF 8	0.5	80	15	57	6	4.9	8	3
		21368-M8X0,75	MF 8	0.75	80	15	57	6	4.9	8	3
		21368-M8X1	MF 8	1	90	18	67	6	4.9	8	3
		21368-M10X0,75	MF 10	0.75	90	20	67	7	5.5	8	3
		21368-M10X1	MF 10	1	90	20	67	7	5.5	8	3
		21368-M12X1	MF 12	1	100	21	73	9	7	10	4
		21368-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
		21368-M14X1	MF 14	1	100	21	71	11	9	12	4
		21368-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
		21368-M16X1	MF 16	1	100	21	58	12	9	12	4
		21368-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
		21368-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
	21368-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4	
	21368-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	4	
	21368-M24X1,5	MF 24	1.5	140	26	93	18	14.5	17	4	

HSS-E machine taps

mm

Paradur® HN



– For short-chipping materials

MF
DIN 13

6HX

$\leq 1,5 \times D_N$

$E=1,5-2$

36HRC
1200
-400
N/mm²

	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	213614-M12X1,5	MF 12	1.5	100	21	73	9	7	10	5
	213614-M14X1,5	MF 14	1.5	100	21	71	11	9	12	6
	213614-M16X1,5	MF 16	1.5	100	21	58	12	9	12	6
	213614-M18X1,5	MF 18	1.5	110	24	66	14	11	14	6
	213614-M20X1,5	MF 20	1.5	125	24	80	16	12	15	6
	213614-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	6

C1

WALTER SELECT

●● Primary application ● Other application

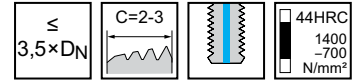
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC130 Supreme

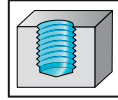


- WY80AA: Good Performance
- WY80EH: Excellent Performance



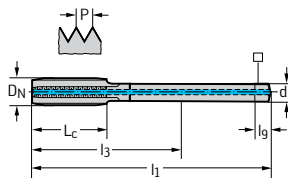
MF
DIN 13

6HX



	P	M	K	N	S	H	O
WY80AA (TiN)	●●		●●	●			●
WY80EH (AlCrTiN)	●●		●●	●			●

DIN 374



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA	WY80EH
TC130-M10X1-L1-	MF 10	1	90	20	67	7	5.5	8	3	☼	☼
TC130-M12X1,5-L1-	MF 12	1.5	100	21	73	9	7	10	3	☼	☼
TC130-M14X1,5-L1-	MF 14	1.5	100	21	71	11	9	12	3	☼	☼
TC130-M16X1,5-L1-	MF 16	1.5	100	21	58	12	9	12	3	☼	☼
TC130-M18X1,5-L1-	MF 18	1.5	110	24	66	14	11	14	3	☼	☼
TC130-M20X1,5-L1-	MF 20	1.5	125	24	80	16	12	15	3	☼	☼
TC130-M22X1,5-L1-	MF 22	1.5	125	24	78	18	14.5	17	3	☼	☼
TC130-M24X1,5-L1-	MF 24	1.5	140	26	93	18	14.5	17	4	☼	
TC130-M30X2-L1-	MF 30	2	150	26	85	22	18	21	4	☼	
TC130-M33X2-L1-	MF 33	2	160	28	93	25	20	23	4	☼	

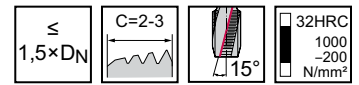
Ordering example for the grade WY80AA: TC130-M10X1-L1-WY80AA

C1

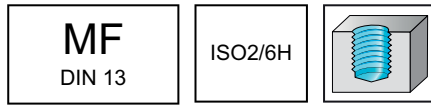
HSS-E machine taps

mm

Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			
TICN	●●		●●	●●			
TIN	●●		●●	●●			

DIN 371	Designation TICN	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>			21410-M4X0,5	MF 4	0.5	63	7	21	4.5	3.4	6	3
			21410-M5X0,5	MF 5	0.5	70	8	25	6	4.9	8	3
			21410-M6X0,5	MF 6	0.5	80	10	30	6	4.9	8	3
			21410-M6X0,75	MF 6	0.75	80	10	30	6	4.9	8	3

l_g dimensions in accordance with DIN 10

DIN 374	Designation TICN	Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>		2146005-M8X0,75	21460-M8X0,75	MF 8x	0.75	80	10	57	6	4.9	8	3
	2146006-M8X1	2146005-M8X1	21460-M8X1	MF 8	1	90	13	67	6	4.9	8	3
	2146006-M10X1	2146005-M10X1	21460-M10X1	MF 10	1	90	12	67	7	5.5	8	3
			21460-M10X1,25	MF 10	1.25	100	15	77	7	5.5	8	3
	2146006-M12X1	2146005-M12X1	21460-M12X1	MF 12	1	100	13	73	9	7	10	3
			21460-M12X1,25	MF 12	1.25	100	13	73	9	7	10	3
	2146006-M12X1,5	2146005-M12X1,5	21460-M12X1,5	MF 12	1.5	100	21	73	9	7	10	3
			21460-M14X1	MF 14	1	100	15	71	11	9	12	4
	2146006-M14X1,5	2146005-M14X1,5	21460-M14X1,25	MF 14x	1.25	100	15	71	11	9	12	4
			21460-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
	2146006-M16X1,5	2146005-M16X1,5	21460-M16X1	MF 16	1	100	15	58	12	9	12	4
			21460-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
	2146006-M18X1,5	2146005-M18X1,5	21460-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
	2146006-M20X1,5	2146005-M20X1,5	21460-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4
			21460-M20X2	MF 20	2	140	30	95	16	12	15	4
		2146005-M22X1,5	21460-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	4
			2146005-M24X1,5	21460-M24X1,5	MF 24	1.5	140	26	93	18	14.5	17
			21460-M24X2	MF 24	2	140	26	93	18	14.5	17	4
			21460-M26X1,5	MF 26	1.5	140	26	93	18	14.5	17	4
			21460-M27X1,5	MF 27	1.5	140	26	77	20	16	19	4
		21460-M27X2	MF 27	2	140	26	77	20	16	19	4	
		21460-M28X1,5	MF 28	1.5	140	26	77	20	16	19	4	
		21460-M30X1,5	MF 30	1.5	150	26	85	22	18	21	4	
		21460-M30X2	MF 30	2	150	26	85	22	18	21	4	
		21460-M36X1,5	MF 36	1.5	170	28	101	28	22	25	4	

l_g dimensions in accordance with DIN 10

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

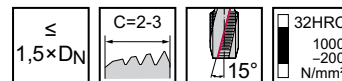
HSS-E machine taps

mm

Paradur® N

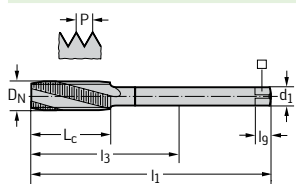


- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●		●●	●●			
uncoated	●●		●●	●●			

DIN 374



Parallel shank

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_9 mm	l_9 mm	N
	21480-M4X0,5	MF 4	0.5	63	7	43	2.8	2.1	5	3
	21480-M5X0,5	MF 5	0.5	70	8	49	3.5	2.7	6	3
	21480-M6X0,5	MF 6	0.5	80	10	59	4.5	3.4	6	3
	21480-M6X0,75	MF 6x	0.75	80	10	59	4.5	3.4	6	3
	21480-M8X0,75	MF 8x	0.75	80	10	57	6	4.9	8	3
2148005-M8X1	21480-M8X1	MF 8	1	90	13	67	6	4.9	8	3
2148005-M10X1	21480-M10X1	MF 10	1	90	12	67	7	5.5	8	3
2148005-M12X1	21480-M12X1	MF 12	1	100	13	73	9	7	10	3
2148005-M12X1,5	21480-M12X1,5	MF 12	1.5	100	21	73	9	7	10	3
2148005-M14X1,5	21480-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
2148005-M16X1,5	21480-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
	21480-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
	21480-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4
	21480-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	4

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

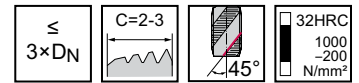
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials

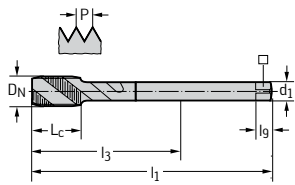


	P	M	K	N	S	H	O
uncoated	●●			●			●
TIN	●●			●			●

DIN 371		Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		P21519-M2,5X0,35	MF 2.5	0.35	50	4	12.5	2.8	2.1	5	3
		P21519-M3X0,25	MF 3	0.25	56	6	18	3.5	2.7	6	3
		P21519-M3X0,35	MF 3	0.35	56	6	18	3.5	2.7	6	3
		P21519-M4X0,35	MF 4	0.35	63	7	21	4.5	3.4	6	3
		P21519-M4X0,5	MF 4	0.5	63	7	21	4.5	3.4	6	3
		P21519-M4,5X0,5	MF 4.5	0.5	70	8	25	6	4.9	8	3
		P21519-M5X0,5	MF 5	0.5	70	8	25	6	4.9	8	3
		P21519-M6X0,5	MF 6	0.5	80	10	30	6	4.9	8	3
		P21519-M6X0,75	MF 6	0.75	80	10	30	6	4.9	8	3
		P21519-M7X0,75	MF 7	0.75	80	10	30	7	5.5	8	3
		P21519-M8X1	MF 8	1	90	12	35	8	6.2	9	3
		P21519-M10X1	MF 10	1	90	12	39	10	8	11	3

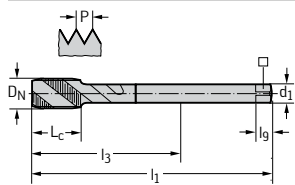
C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

DIN 374


Parallel shank

Designation TIN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_q mm	N
	P21569-M8X0,75	MF 8	0.75	80	10	57	6	4.9	8	3
P2156905-M8X1	P21569-M8X1	MF 8	1	90	12	67	6	4.9	8	3
	P21569-M9X1	MF 9	1	90	13	67	7	5.5	8	3
	P21569-M10X0,75	MF 10	0.75	90	12	67	7	5.5	8	3
P2156905-M10X1	P21569-M10X1	MF 10	1	90	12	67	7	5.5	8	3
P2156905-M10X1,25	P21569-M10X1,25	MF 10	1.25	100	15	77	7	5.5	8	3
P2156905-M12X1	P21569-M12X1	MF 12	1	100	13	73	9	7	10	4
P2156905-M12X1,25	P21569-M12X1,25	MF 12	1.25	100	13	73	9	7	10	4
P2156905-M12X1,5	P21569-M12X1,5	MF 12	1.5	100	13	73	9	7	10	4
	P21569-M14X1	MF 14	1	100	15	71	11	9	12	4
	P21569-M14X1,25	MF 14	1.25	100	15	71	11	9	12	4
P2156905-M14X1,5	P21569-M14X1,5	MF 14	1.5	100	15	71	11	9	12	4
	P21569-M16X1	MF 16	1	100	15	58	12	9	12	4
P2156905-M16X1,5	P21569-M16X1,5	MF 16	1.5	100	15	58	12	9	12	4
	P21569-M18X1	MF 18	1	110	17	66	14	11	14	4
P2156905-M18X1,5	P21569-M18X1,5	MF 18	1.5	110	17	66	14	11	14	4
	P21569-M20X1	MF 20	1	125	17	80	16	12	15	4
P2156905-M20X1,5	P21569-M20X1,5	MF 20	1.5	125	17	80	16	12	15	4
	P21569-M20X2	MF 20	2	140	25	95	16	12	15	4
	P21569-M22X1	MF 22	1	125	18	78	18	14.5	17	4
P2156905-M22X1,5	P21569-M22X1,5	MF 22	1.5	125	18	78	18	14.5	17	4
	P21569-M22X2	MF 22	2	140	20	93	18	14.5	17	4
	P21569-M24X1	MF 24	1	140	20	93	18	14.5	17	5
	P21569-M24X1,5	MF 24	1.5	140	20	93	18	14.5	17	5
	P21569-M24X2	MF 24	2	140	20	93	18	14.5	17	5
	P21569-M26X1,5	MF 26	1.5	140	20	93	18	14.5	17	5
	P21569-M27X1,5	MF 27	1.5	140	20	77	20	16	19	5
	P21569-M27X2	MF 27	2	140	20	77	20	16	19	5
	P21569-M30X1,5	MF 30	1.5	150	20	85	22	18	21	5
	P21569-M30X2	MF 30	2	150	20	85	22	18	21	5
	P21569-M32X1,5	MF 32	1.5	150	20	85	22	18	21	5
	P21569-M33X1,5	MF 33	1.5	160	22	93	25	20	23	5
	P21569-M33X2	MF 33	2	160	22	93	25	20	23	5
	P21569-M36X1,5	MF 36	1.5	170	22	101	28	22	25	5
	P21569-M36X2	MF 36	2	170	22	101	28	22	25	5
	P21569-M36X3	MF 36	3	200	30	131	28	22	25	5
	P21569-M38X1,5	MF 38	1.5	170	22	101	28	22	25	5
	P21569-M39X2	MF 39	2	170	22	72	32	24	27	5
	P21569-M39X3	MF 39	3	200	33	102	32	24	27	5
	P21569-M40X1,5	MF 40	1.5	170	22	72	32	24	27	5
	P21569-M42X1,5	MF 42	1.5	170	22	72	32	24	27	6
	P21569-M42X2	MF 42	2	170	22	72	32	24	27	6
	P21569-M42X3	MF 42	3	200	33	102	32	24	27	6
	P21569-M45X1,5	MF 45	1.5	180	22	77	36	29	32	6
	P21569-M48X1,5	MF 48	1.5	190	22	87	36	29	32	6
	P21569-M48X2	MF 48	2	190	24	87	36	29	32	6
	P21569-M48X3	MF 48	3	225	36	122	36	29	32	6
	P21569-M52X3	MF 52	3	225	36	95	40	32	35	6



Parallel shank

HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

$C=2-3$

$\angle 45^\circ$

32HRC
1000-200
N/mm²

MF
DIN 13

ISO3/6G

	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 374	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_2 mm	l_9 mm	N
	TIN	uncoated									
<p>Parallel shank</p>	P2158905-M8X1	P21589-M8X1	MF 8	1	90	12	67	6	4.9	8	3
	P2158905-M10X1	P21589-M10X1	MF 10	1	90	12	67	7	5.5	8	3
	P2158905-M12X1	P21589-M12X1	MF 12	1	100	13	73	9	7	10	4
	P2158905-M12X1,5	P21589-M12X1,5	MF 12	1.5	100	13	73	9	7	10	4
	P2158905-M14X1,5	P21589-M14X1,5	MF 14	1.5	100	15	71	11	9	12	4
	P2158905-M16X1,5	P21589-M16X1,5	MF 16	1.5	100	15	58	12	9	12	4
	P2158905-M18X1,5		MF 18	1.5	110	17	66	14	11	14	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

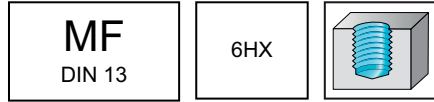
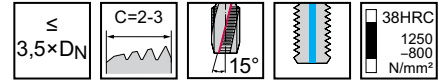
HSS-E machine taps

mm

Paradur® Short Chip HT



- No problems working with steel materials: No bird nesting
- THL: Good chip control and good wear resistance



	P	M	K	N	S	H	O
THL	●●		●	●			
uncoated	●●		●	●			

DIN 376	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	THL	uncoated									
	21460T2-M12X1,5	21460TR-M12X1,5	MF 12	1.5	100	13	58	9	7	10	3
	21460T2-M14X1,5		MF 14	1.5	100	15	71	11	9	12	4
	21460T2-M16X1,5	21460TR-M16X1,5	MF 16	1.5	100	15	58	12	9	12	4

Parallel shank

21460TR: Uncoated rake

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Paradur® STE



– For long-chipping materials

MF
DIN 13

6HX

$\leq 2,5 \times D_N$

$E=1,5-2$

$\angle 40^\circ$

36HRC
1200
-350
N/mm²

	P	M	K	N	S	H	O
THL	●	●	●	●			

DIN 374	Designation THL	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	2156062-M8X1	MF 8	1	90	13	67	6	4.9	8	4
	2156062-M10X1	MF 10	1	90	12	67	7	5.5	8	4
	2156062-M12X1,5	MF 12	1.5	100	13	73	9	7	10	4
	2156062-M14X1,5	MF 14	1.5	100	15	71	11	9	12	5
	2156062-M16X1,5	MF 16	1.5	100	15	58	12	9	12	5
	2156062-M18X1,5	MF 18	1.5	110	17	66	14	11	14	5

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E (-PM) machine taps

TC142 Supreme



- WW60RB: Best wear resistance

MF
DIN 13

6HX

\leq
3×DN

C=2-3

50°

36HRC
1200-350
N/mm²

	P	M	K	N	S	H	O
WW60RB (TiAlN)	●	●●	●	●	●	●	●

DIN 374											WW60RB
	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	
<p>Parallel shank</p>	TC142-M8X1-L0-	MF 8	1	90	12	67	6	4.9	8	3	☼
	TC142-M10X1-L0-	MF 10	1	90	12	67	7	5.5	8	3	☼
	TC142-M10X1,25-L0-	MF 10	1.25	100	15	77	7	5.5	8	3	☼
	TC142-M12X1-L0-	MF 12	1	100	13	73	9	7	10	4	☼
	TC142-M12X1,25-L0-	MF 12	1.25	100	13	73	9	7	10	4	☼
	TC142-M12X1,5-L0-	MF 12	1.5	100	13	73	9	7	10	4	☼
	TC142-M14X1,5-L0-	MF 14	1.5	100	15	71	11	9	12	4	☼
	TC142-M16X1,5-L0-	MF 16	1.5	100	15	58	12	9	12	4	☼
	TC142-M20X1,5-L0-	MF 20	1.5	125	17	80	16	12	15	4	☼

Ordering example for the grade WW60RB: TC142-M10X1-L0-WW60RB

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

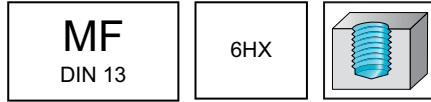
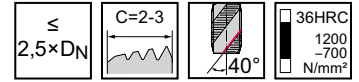
HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●●	●	●	●	●	●
VAP	●	●●	●	●	●	●	●

DIN 371		Designation TIN	Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
		M2151305-M4X0,5	M21513-M4X0,5	MF 4	0.5	63	7	21	4.5	3.4	6	3
		M2151305-M5X0,5	M21513-M5X0,5	MF 5	0.5	70	8	25	6	4.9	8	3
		M2151305-M6X0,5	M21513-M6X0,5	MF 6	0.5	80	10	30	6	4.9	8	3
			M21513-M6X0,75	MF 6	0.75	80	10	30	6	4.9	8	3

Parallel shank

DIN 374		Designation TIN	Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
		M2156305-M8X0,5	M21563-M8X0,5	MF 8	0.5	80	10	57	6	4.9	8	3
		M2156305-M8X0,75	M21563-M8X0,75	MF 8	0.75	80	10	57	6	4.9	8	3
		M2156305-M8X1	M21563-M8X1	MF 8	1	90	12	67	6	4.9	8	3
		M2156305-M10X0,75	M21563-M10X0,75	MF 10	0.75	90	12	67	7	5.5	8	3
		M2156305-M10X1	M21563-M10X1	MF 10	1	90	12	67	7	5.5	8	3
		M2156305-M10X1,25	M21563-M10X1,25	MF 10	1.25	100	15	77	7	5.5	8	3
		M2156305-M12X1	M21563-M12X1	MF 12	1	100	13	73	9	7	10	4
		M2156305-M12X1,25	M21563-M12X1,25	MF 12	1.25	100	13	73	9	7	10	4
		M2156305-M12X1,5	M21563-M12X1,5	MF 12	1.5	100	13	73	9	7	10	4
			M21563-M14X1	MF 14	1	100	15	71	11	9	12	4
		M2156305-M14X1,5	M21563-M14X1,5	MF 14	1.5	100	15	71	11	9	12	4
		M2156305-M16X1,5	M21563-M16X1,5	MF 16	1.5	100	15	58	12	9	12	4
		M2156305-M18X1,5	M21563-M18X1,5	MF 18	1.5	110	17	66	14	11	14	4
		M2156305-M20X1,5	M21563-M20X1,5	MF 20	1.5	125	17	80	16	12	15	4
			M21563-M20X2	MF 20	2	140	25	95	16	12	15	4
			M21563-M22X1,5	MF 22	1.5	125	18	78	18	14.5	17	5
			M21563-M24X1,5	MF 24	1.5	140	20	93	18	14.5	17	5
			M21563-M24X2	MF 24	2	140	20	93	18	14.5	17	5
			M21563-M27X1,5	MF 27	1.5	140	20	77	20	16	19	5
			M21563-M27X2	MF 27	2	140	20	77	20	16	19	5
		M21563-M30X2	MF 30	2	150	20	85	22	18	21	5	

Parallel shank

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

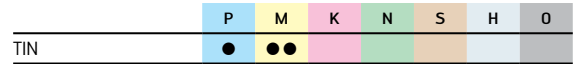
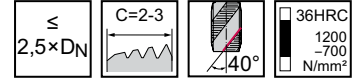
HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials



DIN 374		Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_2 mm	l_9 mm	N
<p>Parallel shank</p>	M2158305-M8X1	MF 8	1	90	12	67	6	4.9	8	3	
	M2158305-M10X1	MF 10	1	90	12	67	7	5.5	8	3	
	M2158305-M12X1	MF 12	1	100	13	73	9	7	10	4	
	M2158305-M12X1,5	MF 12	1.5	100	13	73	9	7	10	4	
	M2158305-M14X1	MF 14	1	100	15	71	11	9	12	4	
	M2158305-M14X1,5	MF 14	1.5	100	15	71	11	9	12	4	
	M2158305-M16X1	MF 16	1	100	15	58	12	9	12	4	
	M2158305-M16X1,5	MF 16	1.5	100	15	58	12	9	12	4	

C1

HSS-E machine taps

mm

Paradur Inox® 25



– For long-chipping materials

MF
DIN 13

6HX

$\leq 1,5 \times D_N$

$E=1,5-2$

$\angle 25^\circ$

36HRC
1200-350
N/mm²

	P	M	K	N	S	H	O
TIN	●●	●●					

DIN 374	Designation TIN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>	2156315-M10X1	MF 10	1	90	20	67	7	5.5	8	5
	2156315-M12X1	MF 12	1	100	21	73	9	7	10	5
	2156315-M12X1,5	MF 12	1.5	100	21	73	9	7	10	5
	2156315-M14X1,5	MF 14	1.5	100	21	71	11	9	12	5
	2156315-M16X1,5	MF 16	1.5	100	21	58	12	9	12	5
	2156315-M18X1,5	MF 18	1.5	110	24	66	14	11	14	5
	2156315-M20X1,5	MF 20	1.5	125	24	80	16	12	15	6
	2156315-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	6
	2156315-M24X1,5	MF 24	1.5	140	26	93	18	14.5	17	6

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

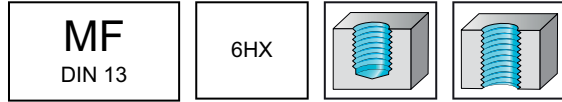
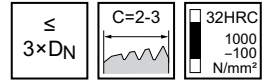
HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided



	P	M	K	N	S	H	O
NID			●●	●●			●●
TICN			●●	●●			●●

DIN 374		Designation NID	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>		E2136406-M6X0,75	E2136406-M6X0,75	MF 6	0.75	80	15	59	4.5	3.4	6	4
		E21364-M8X0,75	E2136406-M8X0,75	MF 8	0.75	80	15	57	6	4.9	8	4
		E21364-M8X1	E2136406-M8X1	MF 8	1	90	18	67	6	4.9	8	4
		E21364-M10X1	E2136406-M10X1	MF 10	1	90	20	67	7	5.5	8	4
		E21364-M10X1,25	E2136406-M10X1,25	MF 10	1.25	100	20	77	7	5.5	8	4
		E21364-M12X1	E2136406-M12X1	MF 12	1	100	21	73	9	7	10	4
		E21364-M12X1,25	E2136406-M12X1,25	MF 12	1.25	100	21	73	9	7	10	4
		E21364-M12X1,5	E2136406-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
		E21364-M14X1,5	E2136406-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
		E21364-M16X1,5	E2136406-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
		E21364-M18X1,5	E2136406-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
		E21364-M20X1,5	E2136406-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4
		E21364-M22X1,5	E2136406-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	5
		E21364-M24X1,5	E2136406-M24X1,5	MF 24	1.5	140	26	93	18	14.5	17	5
		E21364-M26X1,5	E2136406-M26X1,5	MF 26	1.5	140	26	93	18	14.5	17	5
		E21364-M30X1,5	E2136406-M30X1,5	MF 30	1.5	150	26	85	22	18	21	5

C1

WALTER SELECT ●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

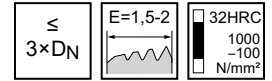
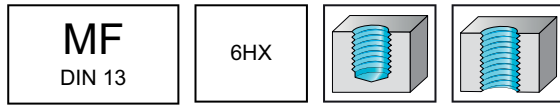
HSS-E PM machine taps

mm

Paradur® Eco CI



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN 374		Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	E2136466-M8X1	MF 8	1	90	18	67	6	4.9	8	4	
	E2136466-M10X1	MF 10	1	90	20	67	7	5.5	8	4	
	E2136466-M12X1	MF 12	1	100	21	73	9	7	10	4	
	E2136466-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4	
	E2136466-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4	
	E2136466-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4	
	E2136466-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4	
	E2136466-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4	
	E2136466-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	5	

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

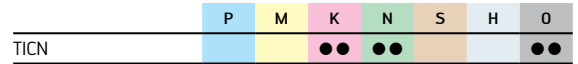
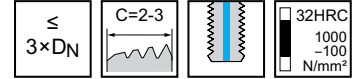
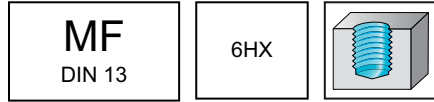
HSS-E PM machine taps

mm

Paradur® Eco CI



– For short-chipping materials



DIN 374	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	E2136416-M8X1	MF 8	1	90	18	67	6	4.9	8	4
	E2136416-M10X1	MF 10	1	90	20	67	7	5.5	8	4
	E2136416-M12X1	MF 12	1	100	21	73	9	7	10	4
	E2136416-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
	E2136416-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
	E2136416-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4
	E2136416-M18X1,5	MF 18	1.5	110	24	66	14	11	14	4
	E2136416-M20X1,5	MF 20	1.5	125	24	80	16	12	15	4
	E2136416-M22X1,5	MF 22	1.5	125	24	78	18	14.5	17	5

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

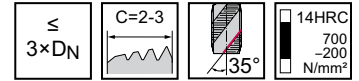
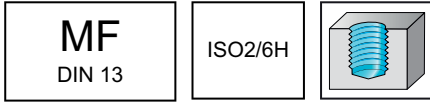
HSS-E machine taps

mm

Paradur® X-pert N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	N21566-M8X1	MF 8	1	90	12	67	6	4.9	8	2
	N21566-M10X1	MF 10	1	90	12	67	7	5.5	8	3
	N21566-M12X1	MF 12	1	100	13	73	9	7	10	3
	N21566-M12X1,5	MF 12	1.5	100	13	73	9	7	10	3
	N21566-M14X1,5	MF 14	1.5	100	15	71	11	9	12	3
	N21566-M16X1	MF 16	1	100	15	58	12	9	12	4
	N21566-M16X1,5	MF 16	1.5	100	15	58	12	9	12	3
	N21566-M18X1,5	MF 18	1.5	110	17	66	14	11	14	4
	N21566-M20X1,5	MF 20	1.5	125	17	80	16	12	15	4

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ni 10



- For long- and short-chipping materials

MF
DIN 13

6HX

$\leq 1,5 \times D_N$

C=2-3

10°

49HRC
1600
-1000
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	214101-M8X1	MF 8	1	90	20	66	8	6.2	9	3
	214101-M10X1	MF 10	1	90	24	62	10	8	11	3
	214101-M12X1,25	MF 12	1.25	100	28.5	58	12	9	12	4
	214101-M12X1,5	MF 12	1.5	100	29.5	58	12	9	12	4

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400-700
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	21416-M8X0,75	MF 8	0.75	80	10	29	8	6.2	9	3
	21416-M8X1	MF 8	1	90	12	29	8	6.2	9	3
	21416-M10X1	MF 10	1	90	14	33	10	8	11	3

DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	21466-M8X1	MF 8	1	90	12	67	6	4.9	8	3
	21466-M10X1	MF 10	1	90	14	67	7	5.5	8	3
	21466-M10X1,25	MF 10	1.25	100	20	77	7	5.5	8	3
	21466-M12X1	MF 12	1	100	16	73	9	7	10	4
	21466-M12X1,25	MF 12	1.25	100	21	73	9	7	10	4
	21466-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
	21466-M14X1	MF 14	1	100	16	71	11	9	12	4
	21466-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
	21466-M16X1	MF 16	1	100	18	58	12	9	12	4

HSS-E PM machine taps

mm

Paradur® Ti Plus



- Recommended with emulsion
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
ACN					●●		

~DIN 371	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	2141663-M6X0,75	MF 6	0.75	80	15	23	6	4.9	8	3
	2141663-M8X0,75	MF 8	0.75	90	18	29.5	8	6.2	9	3
	2141663-M8X1	MF 8	1	90	18	29.5	8	6.2	9	3
	2141663-M10X1	MF 10	1	100	20	33.5	10	8	11	3
Parallel shank										

C1

DIN 374	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	2146663-M12X1,5	MF 12	1.5	100	21	73	9	7	10	4
	2146663-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
Parallel shank										

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

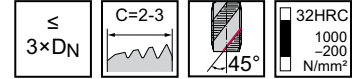
HSS-E machine taps

mm

Paradur® Uni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●	●			

DIN 374	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	7156770-M4X0,5	MF 4	0.5	63	7	43	2.8	2.1	5	3
	7156770-M5X0,5	MF 5	0.5	70	8	49	3.5	2.7	6	3
	7156770-M6X0,5	MF 6	0.5	80	10	59	4.5	3.4	6	3
	7156770-M6X0,75	MF 6	0.75	80	10	59	4.5	3.4	6	3
	7156770-M8X0,75	MF 8	0.75	80	10	57	6	4.9	8	3
	7156770-M8X1	MF 8	1	90	12	67	6	4.9	8	3
	7156770-M10X1	MF 10	1	90	12	67	7	5.5	8	3
	7156770-M10X1,25	MF 10	1.25	100	15	77	7	5.5	8	3
	7156770-M12X1	MF 12	1	100	13	73	9	7	10	4
	7156770-M12X1,25	MF 12	1.25	100	13	73	9	7	10	4
	7156770-M12X1,5	MF 12	1.5	100	13	73	9	7	10	4
	7156770-M14X1,5	MF 14	1.5	100	15	71	11	9	12	4
	7156770-M16X1,5	MF 16	1.5	100	15	58	12	9	12	5
	7156770-M18X1,5	MF 18	1.5	110	17	66	14	11	14	5
	7156770-M20X1,5	MF 20	1.5	125	17	80	16	12	15	5
	7156770-M22X1,5	MF 22	1.5	125	18	78	18	14.5	17	5
	7156770-M24X1,5	MF 24	1.5	140	20	93	18	14.5	17	5
	7156770-M26X1,5	MF 26	1.5	140	20	93	18	14.5	17	5
	7156770-M27X1,5	MF 27	1.5	140	20	77	20	16	19	5
	7156770-M28X1,5	MF 28	1.5	140	20	77	20	16	19	5
	7156770-M27X2	MF 27	2	140	20	77	20	16	19	5
	7156770-M30X1,5	MF 30	1.5	150	20	85	22	18	21	5
	7156770-M30X2	MF 30	2	150	20	85	22	18	21	5

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

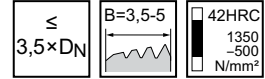
HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 2184-1		Designation THL	D _N -P	D _N mm	Threads per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2221302-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	3	
	EP2221302-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	3	
	EP2221302-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	3	
	EP2221302-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3	
	EP2221302-UNC10	UNC #10-24	4.826	24	70	13	25	6	4.9	8	3	
	EP2221302-UNC1/4	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3	

Parallel shank

DIN 2184-1		Designation THL	D _N -P	D _N mm	Threads per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2226302-UNC5/16	UNC 5/16-18	7.938	18	90	18	67	6	4.9	8	3	
	EP2226302-UNC3/8	UNC 3/8-16	9.525	16	100	20	77	7	5.5	8	3	
	EP2226302-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	
	EP2226302-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4	

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

TC216 Perform mm



– For long-chipping materials

UNC
ASME B1.1

2B

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
1000-350
N/mm²

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			

DIN 371	Designation	D _N -P	D _N mm	Threads per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA
	TC216-UNC6-C0-	UNC #6-32	3.505	32	56	11	20	4	3	6	3	☞
	TC216-UNC8-C0-	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3	☞
	TC216-UNC10-C0-	UNC #10-24	4.826	24	70	13	25	6	4.9	8	3	☞
	TC216-UNC1/4-C0-	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3	☞
	TC216-UNC5/16-C0-	UNC 5/16-18	7.938	18	90	18	35	8	6.2	9	3	☞
	TC216-UNC3/8-C0-	UNC 3/8-16	9.525	16	100	20	39	10	8	11	3	☞

Ordering example for the grade WY80AA: TC216-UNC1/4-C0-WY80AA

DIN 376	Designation	D _N -P	D _N mm	Threads per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA
	TC216-UNC1/2-L0-	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	☞
	TC216-UNC5/8-L0-	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4	☞
	TC216-UNC3/4-L0-	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4	☞

Ordering example for the grade WY80AA: TC216-UNC1/2-L0-WY80AA

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

C1

HSS-E machine taps

mm

Prototex® X-pert P



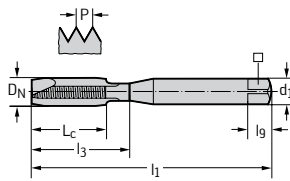
- For long-chipping materials

$\leq 3 \times D_N$ B=3,5-5 32HRC

UNC
 ASME B1.1 3B

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1-B



Parallel shank

Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
P22200-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	2
P22200-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	2
P22200-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	2
P22200-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	2

C1

HSS-E machine taps

mm

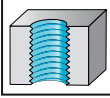
Prototex® X-pert P



- For long-chipping materials

UNC
ASME B1.1

2B

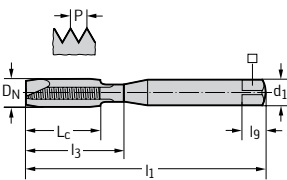


$\leq 3 \times D_N$

$B=3,5-5$

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
 <p>Parallel shank</p>	P22210-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	2
	P22210-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	2
	P22210-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	2
	P22210-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	2

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

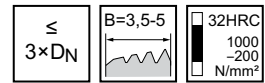
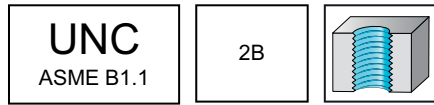
HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 2184-1

Parallel shank

Designation TIN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P22310-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	3
	P22310-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	3
	P22310-UNC5	UNC #5-40	3.175	40	56	10	18	3.5	2.7	6	3
P2231005-UNC6	P22310-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	3
	P22310-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3
	P22310-UNC10	UNC #10-24	4.826	24	70	13	25	6	4.9	8	3
	P22310-UNC12	UNC #12-24	5.486	24	80	15	30	6	4.9	8	3
	P22310-UNC1/4	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3
	P22310-UNC5/16	UNC 5/16-18	7.938	18	90	18	35	8	6.2	9	3
	P22310-UNC3/8	UNC 3/8-16	9.525	16	100	20	39	10	8	11	3

DIN 2184-1

Parallel shank

Designation TIN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P22360-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	3
P2236005-UNC1/2	P22360-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	3
	P22360-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	3
P2236005-UNC5/8	P22360-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	3
P2236005-UNC3/4	P22360-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	3
	P22360-UNC7/8	UNC 7/8-9	22.225	9	140	30	93	18	14.5	17	3
	P22360-UNC1	UNC 1"-8	25.4	8	160	36	113	18	14.5	17	3
	P22360-UNC1,1/8	UNC 1.1/8-7	28.575	7	180	42	115	22	18	21	4
	P22360-UNC1,1/4	UNC 1.1/4-7	31.75	7	180	42	115	22	18	21	4
	P22360-UNC1,1/2	UNC 1.1/2-6	38.1	6	200	48	131	28	22	25	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert M



– For long-chipping materials

$\leq 3 \times D_N$

B=3,5-5

36HRC
1200-700 N/mm²

UNC

ASME B1.1

2B

	P	M	K	N	S	H	O
TIN	●	●●	●	●	●	●	●
VAP	●	●●	●	●	●	●	●

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p style="font-size: 0.8em;">Parallel shank</p>	M2221305-UNC2	M22213-UNC2	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	2	
	M2221305-UNC3	M22213-UNC3	UNC #3-48	2.515	48	50	8	12.5	2.8	2.1	5	2	
	M2221305-UNC4	M22213-UNC4	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	2	
	M2221305-UNC5	M22213-UNC5	UNC #5-40	3.175	40	56	10	18	3.5	2.7	6	2	
	M2221305-UNC6	M22213-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	2	
	M2221305-UNC8	M22213-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3	
	M2221305-UNC10	M22213-UNC10	UNC #10-24	4.826	24	70	13	25	6	4.9	8	3	
		M22213-UNC12	UNC #12-24	5.486	24	80	15	30	6	4.9	8	3	
	M2221305-UNC1/4	M22213-UNC1/4	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3	

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p style="font-size: 0.8em;">Parallel shank</p>		M22263-UNC5/16	UNC 5/16-18	7.938	18	90	18	67	6	4.9	8	3	
	M2226305-UNC3/8	M22263-UNC3/8	UNC 3/8-16	9.525	16	100	20	77	7	5.5	8	3	
		M22263-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	3	
	M2226305-UNC1/2	M22263-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	
		M22263-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	4	
		M22263-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4	
		M22263-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4	
		M22263-UNC7/8	UNC 7/8-9	22.225	9	140	30	93	18	14.5	17	4	
	M22263-UNC1	UNC 1"-8	25.4	8	160	36	113	18	14.5	17	4		

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi



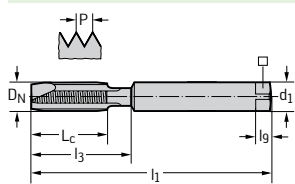
$\leq 2 \times D_N$

UNC
ASME B1.1

3B

	P	M	K	N	S	H	O
TICN	●●	●●	●	●	●●		
uncoated	●●	●●	●	●	●●		

~DIN 2184-1

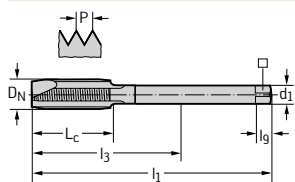


Parallel shank

Designation TICN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
2220706-UNC2	22207-UNC2	UNC #2-56	2.184	56	45	9	9	2.8	2.1	5	2
	22207-UNC4	UNC #4-40	2.845	40	56	10	10	3.5	2.7	6	2
	22207-UNC5	UNC #5-40	3.175	40	56	10	10	3.5	2.7	6	2
2220706-UNC6	22207-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
2220706-UNC8	22207-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
2220706-UNC10	22207-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
	22207-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
2220706-UNC5/16	22207-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
2220706-UNC3/8	22207-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1



Parallel shank

Designation TICN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	22257-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
	22257-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
	22257-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
	22257-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4

HSS-E PM machine taps

mm

Prototex® TiNi



$\leq 2 \times D_N$

$B=3,5-5$

44HRC
 1400
 ~700
 N/mm²

UNC
 ASME B1.1

2B

	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		
uncoated	●●	●●	●●	●●	●●		

~DIN 2184-1	Designation	Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	TICN	uncoated										
<p>Parallel shank</p>	2221706-UNC2	22217-UNC2	UNC #2-56	2.184	56	45	9	9	2.8	2.1	5	2
	2221706-UNC4	22217-UNC4	UNC #4-40	2.845	40	56	10	10	3.5	2.7	6	2
	2221706-UNC5	22217-UNC5	UNC #5-40	3.175	40	56	10	10	3.5	2.7	6	2
	2221706-UNC6	22217-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
	2221706-UNC8	22217-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
	2221706-UNC10	22217-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
	2221706-UNC1/4	22217-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
	2221706-UNC5/16	22217-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
	2221706-UNC3/8	22217-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1	Designation	Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	TICN	uncoated										
<p>Parallel shank</p>	2226706-UNC7/16	22267-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
	2226706-UNC1/2	22267-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
	2226706-UNC9/16	22267-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	4
	2226706-UNC5/8	22267-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
	2226706-UNC3/4	22267-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4

WALTER SELECT

●● Primary application

● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Paradur® Eco Plus



- For long-chipping materials

UNC
ASME B1.1

2B

$\leq 3 \times D_N$

$C=2-3$

$\angle 45^\circ$

38HRC
1250-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 2184-1	Designation THL	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	EP2251302-UNC2	UNC #2-56	2.184	56	45	4	8.4	2.8	2.1	5	3
	EP2251302-UNC4	UNC #4-40	2.845	40	56	6	11	3.5	2.7	6	3
	EP2251302-UNC6	UNC #6-32	3.505	32	56	6.5	13.7	4	3	6	3
	EP2251302-UNC8	UNC #8-32	4.166	32	63	7	17.8	4.5	3.4	6	3
	EP2251302-UNC10	UNC #10-24	4.826	24	70	8	20.7	6	4.9	8	3
	EP2251302-UNC1/4	UNC 1/4-20	6.35	20	80	10	27.3	7	5.5	8	3

Parallel shank

UNC 2: Without thread taper

DIN 2184-1	Designation THL	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	EP2256302-UNC5/16	UNC 5/16-18	7.938	18	90	12	67	6	4.9	8	3
	EP2256302-UNC3/8	UNC 3/8-16	9.525	16	100	15	77	7	5.5	8	3
	EP2256302-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	4
	EP2256302-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	4

Parallel shank

HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials

UNC
ASME B1.1

2B

\leq
3×DN

C=2-3

45°

38HRC
1250
-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 2184-1	Designation THL	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	EP2251312-UNC1/4	UNC 1/4-20	6.35	20	80	10	27.3	7	5.5	8	3

DIN 2184-1	Designation THL	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	EP2256312-UNC5/16	UNC 5/16-18	7.938	18	90	12	67	6	4.9	8	3
	EP2256312-UNC3/8	UNC 3/8-16	9.525	16	100	15	77	7	5.5	8	3
	EP2256312-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	4
	EP2256312-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	4
	EP2256312-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

C1

HSS-E machine taps

TC115 Perform mm



- For long-chipping materials

UNC
ASME B1.1

2B

\leq
3×DN

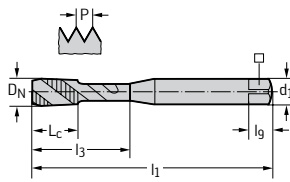
C=2-3

45°

32HRC
1000-350
N/mm²

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			

DIN 371

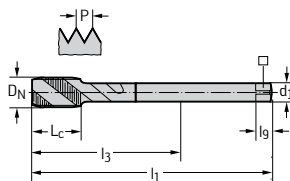


Parallel shank

Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC115-UNC6-C0-	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3	☞
TC115-UNC8-C0-	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3	☞
TC115-UNC10-C0-	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3	☞
TC115-UNC1/4-C0-	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3	☞
TC115-UNC5/16-C0-	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3	☞
TC115-UNC3/8-C0-	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3	☞

Ordering example for the grade WY80AA: TC115-UNC1/4-C0-WY80AA

DIN 376



Parallel shank

Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC115-UNC1/2-L0-	UNC 1/2-13	12.7	16	110	18	83	9	7	10	3	☞
TC115-UNC5/8-L0-	UNC 5/8-11	15.875	11	110	20	68	12	9	12	3	☞
TC115-UNC3/4-L0-	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4	☞

Ordering example for the grade WY80AA: TC115-UNC1/2-L0-WY80AA

HSS-E machine taps

mm

Paradur® N



– For long-chipping materials

UNC
ASME B1.1

3B

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 15^\circ$

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	22400-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3
	22400-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3
	22400-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3
	22400-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
	22400-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3
	22400-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3
	22400-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	22450-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	3
	22450-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	3
	22450-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

Paradur® N



- For long-chipping materials

UNC
ASME B1.1

2B

$\leq 1,5 \times D_N$

$C=2-3$

15°

32HRC
1000-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	22410-UNC1	UNC #1-64	1.854	64	45	4	9	2.8	2.1	5	3
	22410-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3
	22410-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3
	22410-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3
	22410-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
	22410-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3
	22410-UNC12	UNC #12-24	5.486	24	80	10	30	6	4.9	8	3
	22410-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3
	22410-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3
	22410-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	22460-UNC7/16	UNC 7/16-14	11.113	14	100	15	76	8	6.2	9	3
	22460-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	3
	22460-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	3
	22460-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4
	22460-UNC7/8	UNC 7/8-9	22.225	9	140	25	93	18	14.5	17	4
	22460-UNC1	UNC 1"-8	25.4	8	160	30	113	18	14.5	17	4

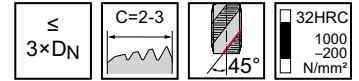
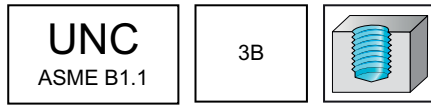
HSS-E machine taps

mm

Paradur® X-pert P



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
<p>Parallel shank</p>	P22509-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3	
	P22509-UNC3	UNC #3-48	2.515	48	50	4	12.5	2.8	2.1	5	3	
	P22509-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3	
	P22509-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3	
	P22509-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3	
	P22509-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3	
	P22509-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3	
	P22509-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3	
	P22509-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3	

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	d ₁ h9 mm	mm	l _g mm	N
<p>Parallel shank</p>	P22559-UNC5/16	UNC 5/16-18	7.938	18	90	12	6	4.9	8	3	
	P22559-UNC3/8	UNC 3/8-16	9.525	16	100	15	7	5.5	8	3	
	P22559-UNC7/16	UNC 7/16-14	11.113	14	100	15	8	6.2	9	3	
	P22559-UNC1/2	UNC 1/2-13	12.7	13	110	18	9	7	10	4	
	P22559-UNC9/16	UNC 9/16-12	14.288	12	110	20	11	9	12	4	
	P22559-UNC5/8	UNC 5/8-11	15.875	11	110	20	12	9	12	4	
	P22559-UNC3/4	UNC 3/4-10	19.05	10	125	25	14	11	14	4	
	P22559-UNC7/8	UNC 7/8-9	22.225	9	140	25	18	14.5	17	4	
	P22559-UNC1	UNC 1"-8	25.4	8	160	30	18	14.5	17	4	
	P22559-UNC1,1/4	UNC 1.1/4-7	31.75	7	180	35	22	18	21	4	

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

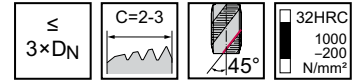
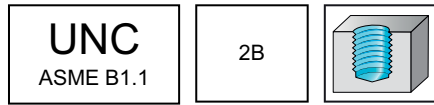
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

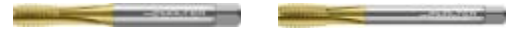
DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N
<p>Parallel shank</p>	P22519-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3	
	P22519-UNC3	UNC #3-48	2.515	48	50	4	12.5	2.8	2.1	5	3	
	P22519-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3	
	P22519-UNC5	UNC #5-40	3.175	40	56	6	18	3.5	2.7	6	3	
	P22519-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	3	
	P22519-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3	
	P22519-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3	
	P22519-UNC12	UNC #12-24	5.486	24	80	10	30	6	4.9	8	3	
	P22519-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3	
	P22519-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	3	
	P22519-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	3	

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N
<p>Parallel shank</p>	P22569-UNC7/16	UNC 7/16-14	11.113	14	100	15	76	8	6.2	9	3	
	P22569-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	4	
	P22569-UNC9/16	UNC 9/16-12	14.288	12	110	20	81	11	9	12	4	
	P22569-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	4	
	P22569-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4	
	P22569-UNC7/8	UNC 7/8-9	22.225	9	140	25	93	18	14.5	17	4	
	P22569-UNC1	UNC 1"-8	25.4	8	160	30	113	18	14.5	17	4	
	P22569-UNC1,1/8	UNC 1.1/8-7	28.575	7	180	35	115	22	18	21	4	
	P22569-UNC1,1/4	UNC 1.1/4-7	31.75	7	180	35	115	22	18	21	4	
	P22569-UNC1,1/2	UNC 1.1/2-6	38.1	6	200	40	131	28	22	25	4	

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC130 Supreme mm



- WY80AA: Good Performance

UNC
ASME B1.1

2BX

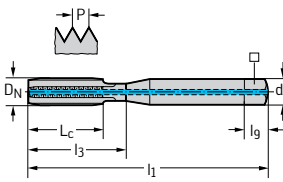
$\leq 3,5 \times D_N$

$C=2-3$

44HRC
1400-700
N/mm²

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●	●●	●	●	●	●

DIN 2184-1

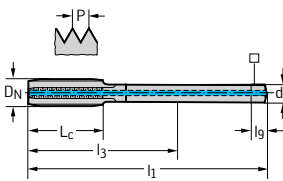


Parallel shank

Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h ₉ mm	□ mm	l _g mm	N	WY80AA
TC130-UNC1/4-C1-	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	3	☼
TC130-UNC5/16-C1-	UNC 5/16-18	7.938	18	90	18	35	8	6.2	9	3	☼
TC130-UNC3/8-C1-	UNC 3/8-16	9.525	16	100	20	39	10	8	11	3	☼

Ordering example for the grade WY80AA: TC130-UNC1/4-C1-WY80AA

DIN 2184-1



Parallel shank

Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h ₉ mm	□ mm	l _g mm	N	WY80AA
TC130-UNC1/2-L1-	UNC 1/2-13	12.7	13	110	23	83	9	7	10	3	☼
TC130-UNC5/8-L1-	UNC 5/8-11	15.875	11	110	25	68	12	9	12	3	☼
TC130-UNC3/4-L1-	UNC 3/4-10	19.05	10	125	30	81	14	11	14	3	☼
TC130-UNC1-L1-	UNC 1"-8	25.4	8	160	36	113	18	14.5	17	4	☼

Ordering example for the grade WY80AA: TC130-UNC1-L1-WY80AA

C1

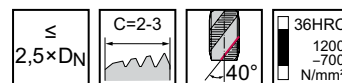
HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●	●●					
VAP	●	●●					

DIN 2184-1	Designation TIN	Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	M2251305-UNC2	M22513-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	3
	M2251305-UNC3	M22513-UNC3	UNC #3-48	2.515	48	50	4	12.5	2.8	2.1	5	3
	M2251305-UNC4	M22513-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	3
	M2251305-UNC5	M22513-UNC5	UNC #5-40	3.175	40	56	6	18	3.5	2.7	6	3
	M2251305-UNC6	M22513-UNC6	UNC #6-32	3.505	32	56	7	20	4	3	6	3
	M2251305-UNC8	M22513-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	3
	M2251305-UNC10	M22513-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	3
	M2251305-UNC12	M22513-UNC12	UNC #12-24	5.486	24	80	10	30	6	4.9	8	3
	M2251305-UNC1/4	M22513-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	3

UNC 2: Without thread taper

DIN 2184-1	Designation TIN	Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	M2256305-UNC5/16	M22563-UNC5/16	UNC 5/16-18	7.938	18	90	12	67	6	4.9	8	3
	M2256305-UNC3/8	M22563-UNC3/8	UNC 3/8-16	9.525	16	100	15	77	7	5.5	8	3
	M2256305-UNC7/16	M22563-UNC7/16	UNC 7/16-14	11.113	14	100	15	76	8	6.2	9	3
	M2256305-UNC1/2	M22563-UNC1/2	UNC 1/2-13	12.7	13	110	18	83	9	7	10	4
	M2256305-UNC9/16	M22563-UNC9/16	UNC 9/16-12	14.288	12	110	20	81	11	9	12	4
	M2256305-UNC5/8	M22563-UNC5/8	UNC 5/8-11	15.875	11	110	20	68	12	9	12	4
	M2256305-UNC3/4	M22563-UNC3/4	UNC 3/4-10	19.05	10	125	25	81	14	11	14	4
	M2256305-UNC7/8	M22563-UNC7/8	UNC 7/8-9	22.225	9	140	25	93	18	14.5	17	4
	M2256305-UNC1	M22563-UNC1	UNC 1"-8	25.4	8	160	30	113	18	14.5	17	4
		M22563-UNC1,1/8	UNC 1.1/8-7	28.575	7	180	35	115	22	18	21	5
		M22563-UNC1,1/4	UNC 1.1/4-7	31.75	7	180	35	115	22	18	21	5
		M22563-UNC1,1/2	UNC 1.1/2-6	38.1	6	200	40	131	28	22	25	5

HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

$\leq 3 \times D_N$

UNC

ASME B1.1

2B

	P	M	K	N	S	H	O
NID			●●	●●			●●

DIN 2184-1	Designation NID	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	E22314-UNC6	UNC #6-32	3.505	32	56	11	20	4	3	6	3
	E22314-UNC8	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	3
	E22314-UNC10	UNC #10-24	4.826	24	70	13	25	6	4.9	8	4
	E22314-UNC1/4	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	4

Parallel shank

DIN 2184-1	Designation NID	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	E22364-UNC5/16	UNC 5/16-18	7.938	18	90	18	67	6	4.9	8	4
	E22364-UNC3/8	UNC 3/8-16	9.525	16	100	20	77	7	5.5	8	4
	E22364-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
	E22364-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
	E22364-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	4
	E22364-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
	E22364-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	4
	E22364-UNC7/8	UNC 7/8-9	22.225	9	140	30	93	18	14.5	17	4

Parallel shank

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Paradur® X-pert N



- For long-chipping materials

UNC
ASME B1.1

2B

\leq
3×DN

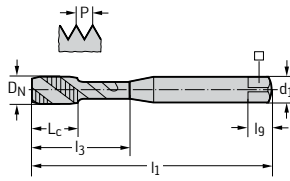
C=2-3

35°

14HRC
700
-200
N/mm²

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 2184-1



Parallel shank

Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
N22516-UNC2	UNC #2-56	2.184	56	45	4	12	2.8	2.1	5	2
N22516-UNC4	UNC #4-40	2.845	40	56	6	18	3.5	2.7	6	2
N22516-UNC6	UNC #6-32	3.505	32	56	6.5	20	4	3	6	2
N22516-UNC8	UNC #8-32	4.166	32	63	7	21	4.5	3.4	6	2
N22516-UNC10	UNC #10-24	4.826	24	70	8	25	6	4.9	8	2
N22516-UNC1/4	UNC 1/4-20	6.35	20	80	10	30	7	5.5	8	2
N22516-UNC5/16	UNC 5/16-18	7.938	18	90	12	35	8	6.2	9	2
N22516-UNC3/8	UNC 3/8-16	9.525	16	100	15	39	10	8	11	2

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

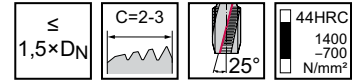
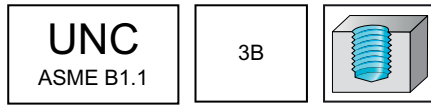
HSS-E PM machine taps

mm

Paradur® Ni



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●				●●		

~DIN 2184-1		Designation uncoated	D_N -P	D_N mm	Thread per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>	224104-UNC2	UNC #2-56	2.184	56	45	9	9	2.8	2.1	5	3	
	224104-UNC4	UNC #4-40	2.845	40	56	10	10	3.5	2.7	6	3	
	224104-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3	
	224104-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3	
	224104-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3	
	224104-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3	
	224104-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	4	

≤ UNC 8: Without reduced neck after the thread

DIN 2184-1		Designation uncoated	D_N -P	D_N mm	Thread per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_g mm	N
<p>Parallel shank</p>	224604-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	
	224604-UNC9/16	UNC 9/16-12	14.288	12	110	25	81	11	9	12	4	
	224604-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	5	

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

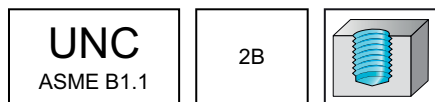
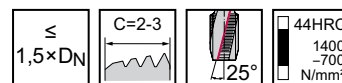
HSS-E PM machine taps

mm

Paradur® Ni



- For long-chipping materials



	P	M	K	N	S	H	O
TICN	●				●●		
uncoated	●				●●		

~DIN 2184-1	Designation TICN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>		224102-UNC2	UNC #2-56	2.184	56	45	9	9	2.8	2.1	5	3	
			224102-UNC3	UNC #3-48	2.515	48	50	9	9	2.8	2.1	5	3
		22410206-UNC4	224102-UNC4	UNC #4-40	2.845	40	56	10	10	3.5	2.7	6	3
		22410206-UNC5		UNC #5-40	3.175	40	56	10	10	3.5	2.7	6	3
		224102-UNC6	224102-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
		22410206-UNC8	224102-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
		22410206-UNC10	224102-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
		22410206-UNC1/4	224102-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
		22410206-UNC5/16	224102-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
		22410206-UNC3/8	224102-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	4

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1	Designation TICN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>		22460206-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4	
		22460206-UNC5/8	224602-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
		22460206-UNC3/4	224602-UNC3/4	UNC 3/4-10	19.05	10	125	30	81	14	11	14	5

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400-700
N/mm²

UNC
ASME B1.1

3B

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	224164-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
	224164-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
	224164-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
	224164-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
	224164-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
	224164-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	224664-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
	224664-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

UNC
ASME B1.1

2B

$\leq 2 \times D_N$

C=2-3

15°

44HRC
1400-700
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	22416-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
	22416-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
	22416-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
	22416-UNC12	UNC #12-24	5.486	24	80	15	23	6	4.9	8	3
	22416-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
	22416-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
	22416-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3
	Parallel shank										

≤ UNC 10: Without reduced neck after the thread

	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	22466-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
	22466-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
	22466-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4
Parallel shank											

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

UNC
ASME B1.1

2B

$\leq 2 \times D_N$

$C=2-3$

$\angle 15^\circ$

44HRC
1400-700
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	22416-UNC6	UNC #6-32	3.505	32	56	12	12	4	3	6	3
	22416-UNC8	UNC #8-32	4.166	32	63	13	13	4.5	3.4	6	3
	22416-UNC10	UNC #10-24	4.826	24	70	16	16	6	4.9	8	3
	22416-UNC12	UNC #12-24	5.486	24	80	15	23	6	4.9	8	3
	22416-UNC1/4	UNC 1/4-20	6.35	20	80	15	25	7	5.5	8	3
	22416-UNC5/16	UNC 5/16-18	7.938	18	90	18	29.5	8	6.2	9	3
	22416-UNC3/8	UNC 3/8-16	9.525	16	100	20	33.5	10	8	11	3

≤ UNC 10: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	22466-UNC7/16	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	4
	22466-UNC1/2	UNC 1/2-13	12.7	13	110	23	83	9	7	10	4
	22466-UNC5/8	UNC 5/8-11	15.875	11	110	25	68	12	9	12	4

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials

UNF
ASME B1.1

2B

$\leq 3,5 \times D_N$

B=3,5-5

42HRC
1350-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

DIN 2184-1	Designation THL	D _N -P	D _N mm	Threads per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2321302-UNF4	UNF #4-48	2.845	48	56	9	18	3.5	2.7	6	3
	EP2321302-UNF6	UNF #6-40	3.505	40	56	11	20	4	3	6	3
	EP2321302-UNF8	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	3
	EP2321302-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	3
	EP2321302-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	3

Parallel shank

C1

DIN 2184-1	Designation THL	D _N -P	D _N mm	Threads per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	EP2326302-UNF5/16	UNF 5/16-24	7.938	24	90	18	67	6	4.9	8	3
	EP2326302-UNF3/8	UNF 3/8-24	9.525	24	100	20	77	7	5.5	8	3
	EP2326302-UNF1/2	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4
	EP2326302-UNF5/8	UNF 5/8-18	15.875	18	100	21	58	12	9	12	4

Parallel shank

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC216 Perform mm



- For long-chipping materials

UNF
ASME B1.1

2B

$\leq 3 \times D_N$

B=3,5-5

32HRC
1000-350
N/mm²

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			

DIN 371	Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA
	TC216-UNF6-C0-	UNF #6-40	3.505	40	56	11	20	4	3	6	3	☼
	TC216-UNF10-C0-	UNF #10-32	4.826	32	70	13	25	6	4.9	8	3	☼
	TC216-UNF1/4-C0-	UNF 1/4-28	6.35	29	80	15	30	7	5.5	8	3	☼
	TC216-UNF5/16-C0-	UNF 5/16-24	7.938	24	90	18	35	8	6.2	9	3	☼
	TC216-UNF3/8-C0-	UNF 3/8-24	9.525	24	100	20	39	10	8	11	3	☼

Parallel shank

Ordering example for the grade WY80AA: TC216-UNF1/4-C0-WY80AA

DIN 376	Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AA
	TC216-UNF7/16-L0-	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	3	☼
	TC216-UNF1/2-L0-	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4	☼

Parallel shank

Ordering example for the grade WY80AA: TC216-UNF1/2-L0-WY80AA

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

\leq
 $3 \times D_N$

B=3,5-5

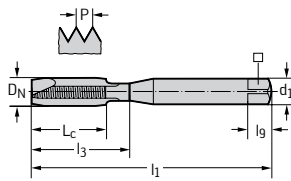
32HRC
 1000
 -200
 N/mm²

UNF
 ASME B1.1

3B

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1-B



Parallel shank

Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
P23200-UNF4	UNF #4-48	2.845	48	56	9	18	3.5	2.7	6	2
P23200-UNF6	UNF #6-40	3.505	40	56	11	20	4	3	6	2
P23200-UNF8	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	2
P23200-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	2
P23200-UNF12	UNF #12-28	5.486	28	80	15	30	6	4.9	8	3
P23200-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	3

C1

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

32HRC
 1000
 -200
 N/mm²

UNF
 ASME B1.1

2B

	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 2184-1		Designation TIN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>		P23210-UNF0	P23210-UNF0	UNF #0-80	1.524	80	40	8	8	2.5	2.1	5	2	
		P23210-UNF1	P23210-UNF1	UNF #1-72	1.854	72	45	6	9	2.8	2.1	5	2	
		P23210-UNF2	P23210-UNF2	UNF #2-64	2.184	64	45	7	12	2.8	2.1	5	2	
		P23210-UNF3	P23210-UNF3	UNF #3-56	2.515	56	50	8	12.5	2.8	2.1	5	2	
		P23210-UNF4	P23210-UNF4	UNF #4-48	2.845	48	56	9	18	3.5	2.7	6	2	
		P23210-UNF6	P23210-UNF6	UNF #6-40	3.505	40	56	11	20	4	3	6	2	
		P23210-UNF8	P23210-UNF8	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	2	
		P23210-UNF10	P23210-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	2	
		P23210-UNF12	P23210-UNF12	UNF #12-28	5.486	28	80	15	30	6	4.9	8	3	
		P2321005-UNF1/4	P23210-UNF1/4	P23210-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	3

UNF 0: Without reduced neck after the thread

DIN 2184-1		Designation TIN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>		P2336005-UNF5/16	P23360-UNF5/16	UNF 5/16-24	7.938	24	90	18	67	6	4.9	8	3	
		P2336005-UNF3/8	P23360-UNF3/8	UNF 3/8-24	9.525	24	100	20	77	7	5.5	8	3	
		P2336005-UNF7/16	P23360-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	3	
		P2336005-UNF1/2	P23360-UNF1/2	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4	
			P23360-UNF9/16	P23360-UNF9/16	UNF 9/16-18	14.288	18	100	21	71	11	9	12	4
		P2336005-UNF5/8	P23360-UNF5/8	P23360-UNF5/8	UNF 5/8-18	15.875	18	100	21	58	12	9	12	4
		P2336005-UNF3/4	P23360-UNF3/4	P23360-UNF3/4	UNF 3/4-16	19.05	16	110	24	66	14	11	14	4
			P23360-UNF7/8	P23360-UNF7/8	UNF 7/8-14	22.225	14	125	24	78	18	14.5	17	4
			P23360-UNF1	P23360-UNF1	UNF 1"-12	25.4	12	140	26	93	18	14.5	17	4
			P23360-UNF1,1/8	P23360-UNF1,1/8	UNF 1.1/8-12	28.575	12	150	26	85	22	18	21	4
			P23360-UNF1,1/4	P23360-UNF1,1/4	UNF 1.1/4-12	31.75	12	150	26	85	22	18	21	4
			P23360-UNF1,3/8	P23360-UNF1,3/8	UNF 1.3/8-12	34.925	12	170	28	101	28	22	25	4
			P23360-UNF1,1/2	P23360-UNF1,1/2	UNF 1.1/2-12	38.1	12	170	28	101	28	22	25	4

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert M



- For long-chipping materials

$\leq 3 \times D_N$
 $B=3,5-5$
 36HRC
 1200
 -700
 N/mm²

UNF
 ASME B1.1
 2B

	P	M	K	N	S	H	O
TIN	●	●●	●	●	●	●	●
VAP	●	●●	●	●	●	●	●

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
			M23213-UNF5	UNF #5-44	3.175	44	56	10	18	3.5	2.7	6	2
			M23213-UNF6	UNF #6-40	3.505	40	56	11	20	4	3	6	2
			M23213-UNF8	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	2
		M2321305-UNF10	M23213-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	3
			M23213-UNF12	UNF #12-28	5.486	28	80	15	30	6	4.9	8	3
		M2321305-UNF1/4	M23213-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	3
Parallel shank													

C1

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		M2326305-UNF5/16	M23263-UNF5/16	UNF 5/16-24	7.938	24	90	18	67	6	4.9	8	3
		M2326305-UNF3/8	M23263-UNF3/8	UNF 3/8-24	9.525	24	100	20	77	7	5.5	8	3
		M2326305-UNF7/16	M23263-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	3
		M2326305-UNF1/2	M23263-UNF1/2	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4
			M23263-UNF9/16	UNF 9/16-18	14.288	18	100	21	71	11	9	12	4
			M23263-UNF5/8	UNF 5/8-18	15.875	18	100	21	58	12	9	12	4
			M23263-UNF3/4	UNF 3/4-16	19.05	16	110	24	66	14	11	14	4
			M23263-UNF7/8	UNF 7/8-14	22.225	14	125	24	78	18	14.5	17	4
			M23263-UNF1	UNF 1"-12	25.4	12	140	26	93	18	14.5	17	4
Parallel shank													

WALTER SELECT
 ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi



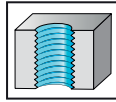
$\leq 2 \times D_N$

B=3,5-5

44HRC
1400-700 N/mm²

UNF
ASME B1.1

3B



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
 Parallel shank		23207-UNF4	UNF #4-48	2.845	48	56	10	10	3.5	2.7	6	2	
		23207-UNF5	UNF #5-44	3.175	44	56	10	10	3.5	2.7	6	2	
		23207-UNF6	UNF #6-40	3.505	40	56	12	12	4	3	6	3	
		2320706-UNF10	23207-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
		2320706-UNF1/4	23207-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
		2320706-UNF5/16	23207-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
		2320706-UNF3/8	23207-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
 Parallel shank		2325706-UNF7/16	23257-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
		2325706-UNF1/2	23257-UNF1/2	UNF 1/2-20	12.7	20	100	23	73	9	7	10	4
		2325706-UNF5/8	23257-UNF5/8	UNF 5/8-18	15.875	18	100	25	58	12	9	12	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

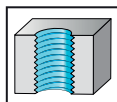
Prototex® TiNi



$\leq 2 \times D_N$

UNF
ASME B1.1

2B



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●	●●		
uncoated	●●	●●	●●	●	●●		

~DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		2321706-UNF5	23217-UNF5	UNF #5-44	3.175	44	56	10	10	3.5	2.7	6	2
			23217-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
		2321706-UNF1/4	23217-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
		2321706-UNF5/16	23217-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
		2321706-UNF3/8	23217-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

Parallel shank

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1		Designation TICN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		2326706-UNF7/16	23267-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
		2326706-UNF1/2	23267-UNF1/2	UNF 1/2-20	12.7	20	100	23	73	9	7	10	4
		2326706-UNF5/8	23267-UNF5/8	UNF 5/8-18	15.875	18	100	25	58	12	9	12	4

Parallel shank

HSS-E PM machine taps

mm

Paradur® Eco Plus



– For long-chipping materials

UNF
ASME B1.1

2B

$\leq 3 \times DN$

$C=2-3$

$\angle 45^\circ$

38HRC
1250
-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 2184-1		Designation	D_N -P	D_N	Thread	l_1	L_c	l_3	d_1	h_9	l_g	N
		THL		mm	per inch	mm	mm	mm	mm	mm	mm	
		EP2351302-UNF4	UNF #4-48	2.845	48	56	6	11	3.5	2.7	6	3
		EP2351302-UNF6	UNF #6-40	3.505	40	56	6.5	13.1	4	3	6	3
		EP2351302-UNF8	UNF #8-36	4.166	36	63	7	17.4	4.5	3.4	6	3
		EP2351302-UNF10	UNF #10-32	4.826	32	70	8	20.7	6	4.9	8	3
		EP2351302-UNF1/4	UNF 1/4-28	6.35	28	80	10	25.9	7	5.5	8	3

Parallel shank

DIN 2184-1		Designation	D_N -P	D_N	Thread	l_1	L_c	l_3	d_1	h_9	l_g	N
		THL		mm	per inch	mm	mm	mm	mm	mm	mm	
		EP2356302-UNF5/16	UNF 5/16-24	7.938	24	90	12	67	6	4.9	8	3
		EP2356302-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
		EP2356302-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4
		EP2356302-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4

Parallel shank

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

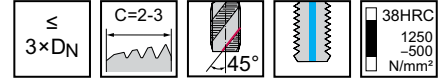
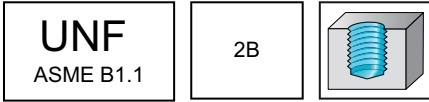
HSS-E PM machine taps

mm

Paradur® Eco Plus

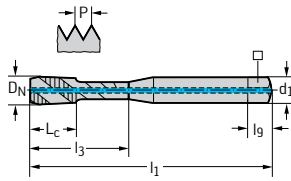


- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

~DIN 2184-1

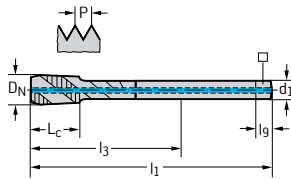


Parallel shank

Designation THL	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
EP2351312-UNF1/4	UNF 1/4-28	6.35	28	80	10	25.9	7	5.5	8	3

C1

DIN 2184-1



Parallel shank

Designation THL	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
EP2356312-UNF5/16	UNF 5/16-24	7.938	24	90	12	67	6	4.9	8	3
EP2356312-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
EP2356312-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4
EP2356312-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4

HSS-E machine taps

TC115 Perform mm



– For long-chipping materials

UNF
ASME B1.1

2B

\leq
3×DN

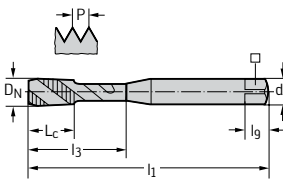
C=2-3

45°

32HRC
1000
-350
N/mm²

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●	●●	●●	●●

DIN 371

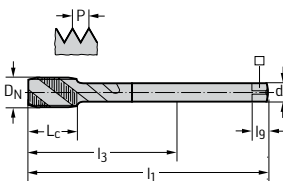


Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC115-UNF6-C0-	UNF #6-40	3.505	40	56	6.5	20	4	3	6	3	●●
TC115-UNF10-C0-	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3	●●
TC115-UNF1/4-C0-	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3	●●
TC115-UNF5/16-C0-	UNF 5/16-24	7.938	24	90	12	35	8	6.2	9	3	●●
TC115-UNF3/8-C0-	UNF 3/8-24	9.525	24	100	15	39	10	8	11	3	●●

Parallel shank

Ordering example for the grade WY80AA: TC115-UNF1/4-C0-WY80AA

DIN 376



Designation	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AA
TC115-UNF7/16-L0-	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3	●●
TC115-UNF1/2-L0-	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4	●●

Parallel shank

Ordering example for the grade WY80AA: TC115-UNF1/2-L0-WY80AA

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

C1

HSS-E machine taps

mm

Paradur® N



- For long-chipping materials

UNF
ASME B1.1

3B

$\leq 1,5 \times D_N$

$C=2-3$

15°

32HRC
1000-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	23400-UNF0	UNF #0-80	1.524	80	40	6	6	2.5	2.1	5	3
	23400-UNF4	UNF #4-48	2.845	48	56	6	18	3.5	2.7	6	3
	23400-UNF8	UNF #8-36	4.166	36	63	7	21	4.5	3.4	6	3
	23400-UNF10	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
	23400-UNF12	UNF #12-28	5.486	28	80	10	30	6	4.9	8	3
	23400-UNF1/4	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3
	23400-UNF5/16	UNF 5/16-24	7.938	24	90	12	35	8	6.2	9	3
	23400-UNF3/8	UNF 3/8-24	9.525	24	100	15	39	10	8	11	3

UNF 0: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	23450-UNF5/16	UNF 5/16-24	7.938	24	90	13	67	6	4.9	8	3
	23450-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
	23450-UNF7/16	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
	23450-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	3
	23450-UNF9/16	UNF 9/16-18	14.288	18	100	15	71	11	9	12	4
	23450-UNF3/4	UNF 3/4-16	19.05	16	110	17	66	14	11	14	4
	23450-UNF7/8	UNF 7/8-14	22.225	14	125	18	78	18	14.5	17	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Paradur® N



- For long-chipping materials

UNF
ASME B1.1

2B

$\leq 1,5 \times D_N$

C=2-3

$\angle 15^\circ$

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●	●	●●	●●	●	●	●

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	23410-UNF0	UNF #0-80	1.524	80	40	6	6	2.5	2.1	5	3
	23410-UNF1	UNF #1-72	1.854	72	45	4	9	2.8	2.1	5	3
	23410-UNF2	UNF #2-64	2.184	64	45	4	12	2.8	2.1	5	3
	23410-UNF4	UNF #4-48	2.845	48	56	6	18	3.5	2.7	6	3
	23410-UNF10	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
	23410-UNF12	UNF #12-28	5.486	28	80	10	30	6	4.9	8	3
	23410-UNF1/4	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3
	23410-UNF5/16	UNF 5/16-24	7.938	24	90	12	35	8	6.2	9	3
	23410-UNF3/8	UNF 3/8-24	9.525	24	100	15	39	10	8	11	3

UNF 0: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	23460-UNF5/16	UNF 5/16-24	7.938	24	90	13	67	6	4.9	8	3
	23460-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
	23460-UNF7/16	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
	23460-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	3
	23460-UNF9/16	UNF 9/16-18	14.288	18	100	15	71	11	9	12	4
	23460-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4
	23460-UNF3/4	UNF 3/4-16	19.05	16	110	17	66	14	11	14	4
	23460-UNF7/8	UNF 7/8-14	22.225	14	125	18	78	18	14.5	17	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

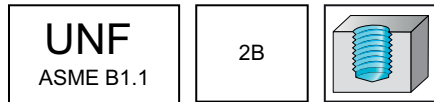
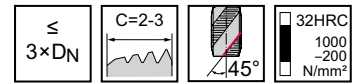
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 2184-1		Designation TIN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
<p>Parallel shank</p>		P23519-UNF1	P23519-UNF1	UNF #1-72	1.854	72	45	4	9	2.8	2.1	5	3	
		P23519-UNF2	P23519-UNF2	UNF #2-64	2.184	64	45	4	12	2.8	2.1	5	3	
		P23519-UNF3	P23519-UNF3	UNF #3-56	2.515	56	50	4	12.5	2.8	2.1	5	3	
		P23519-UNF4	P23519-UNF4	UNF #4-48	2.845	48	56	6	18	3.5	2.7	6	3	
		P23519-UNF5	P23519-UNF5	UNF #5-44	3.175	44	56	6	18	3.5	2.7	6	3	
		P23519-UNF6	P23519-UNF6	UNF #6-40	3.505	40	56	6.5	20	4	3	6	3	
		P23519-UNF8	P23519-UNF8	UNF #8-36	4.166	36	63	7	21	4.5	3.4	6	3	
		P2351905-UNF10	P23519-UNF10	P23519-UNF10	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
		P23519-UNF12	P23519-UNF12	P23519-UNF12	UNF #12-28	5.486	28	80	10	30	6	4.9	8	3
		P2351905-UNF1/4	P23519-UNF1/4	P23519-UNF1/4	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3

DIN 2184-1		Designation TIN	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>		P2356905-UNF5/16	P23569-UNF5/16	UNF 5/16-24	7.938	24	90	12	67	6	4.9	8	3
		P2356905-UNF3/8	P23569-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
		P2356905-UNF7/16	P23569-UNF7/16	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
		P2356905-UNF1/2	P23569-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4
		P2356905-UNF9/16	P23569-UNF9/16	UNF 9/16-18	14.288	18	100	15	71	11	9	12	4
		P2356905-UNF5/8	P23569-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4
		P2356905-UNF3/4	P23569-UNF3/4	UNF 3/4-16	19.05	16	110	17	66	14	11	14	4
		P2356905-UNF7/8	P23569-UNF7/8	UNF 7/8-14	22.225	14	125	18	78	18	14.5	17	4
		P23569-UNF1	P23569-UNF1	UNF 1"-12	25.4	12	140	20	93	18	14.5	17	5
		P23569-UNF1,1/8	P23569-UNF1,1/8	UNF 1.1/8-12	28.575	12	150	20	85	22	18	21	5
		P23569-UNF1,1/4	P23569-UNF1,1/4	UNF 1.1/4-12	31.75	12	150	20	85	22	18	21	5
		P23569-UNF1,3/8	P23569-UNF1,3/8	UNF 1.3/8-12	34.925	12	170	22	101	28	22	25	5
		P23569-UNF1,1/2	P23569-UNF1,1/2	UNF 1.1/2-12	38.1	12	170	22	101	28	22	25	5

HSS-E machine taps

mm

Paradur® X-pert M



- For long-chipping materials

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

36HRC
 1200
 -700
 N/mm²

UNF
 ASME B.1.1

2B

	P	M	K	N	S	H	O
TIN	●	●●	■	■	■	■	■
VAP	●	●●	■	■	■	■	■

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		M23513-UNF6	M23513-UNF6	UNF #6-40	3.505	40	56	7	20	4	3	6	3
		M2351305-UNF8	M23513-UNF8	UNF #8-36	4.166	36	63	7	21	4.5	3.4	6	3
		M2351305-UNF10	M23513-UNF10	UNF #10-32	4.826	32	70	8	25	6	4.9	8	3
		M2351305-UNF12	M23513-UNF12	UNF #12-28	5.486	28	80	10	30	6	4.9	8	3
		M2351305-UNF1/4	M23513-UNF1/4	UNF 1/4-28	6.35	28	80	10	30	7	5.5	8	3

Parallel shank

DIN 2184-1		Designation TIN	Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		M2356305-UNF5/16	M23563-UNF5/16	UNF 5/16-24	7.938	24	90	12	67	6	4.9	8	3
		M2356305-UNF3/8	M23563-UNF3/8	UNF 3/8-24	9.525	24	100	15	77	7	5.5	8	3
		M2356305-UNF7/16	M23563-UNF7/16	UNF 7/16-20	11.113	20	100	15	76	8	6.2	9	3
		M2356305-UNF1/2	M23563-UNF1/2	UNF 1/2-20	12.7	20	100	13	73	9	7	10	4
		M2356305-UNF9/16	M23563-UNF9/16	UNF 9/16-18	14.288	18	100	15	71	11	9	12	4
		M2356305-UNF5/8	M23563-UNF5/8	UNF 5/8-18	15.875	18	100	15	58	12	9	12	4
		M2356305-UNF3/4	M23563-UNF3/4	UNF 3/4-16	19.05	16	110	17	66	14	11	14	4
		M2356305-UNF7/8	M23563-UNF7/8	UNF 7/8-14	22.225	14	125	18	78	18	14.5	17	4
		M2356305-UNF1	M23563-UNF1	UNF 1"-12	25.4	12	140	20	93	18	14.5	17	5

Parallel shank

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

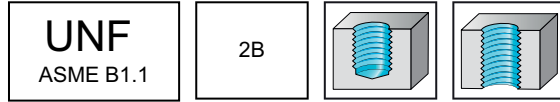
HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided



UNF
ASME B1.1

2B

$\leq 3 \times D_N$ C=2-3 32HRC
 1000-100 N/mm²

	P	M	K	N	S	H	O
NID			●●	●●			●●

DIN 2184-1		Designation NID	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		E23314-UNF10	UNF #10-32	4.826	32	70	13	25	6	4.9	8	4
		E23314-UNF1/4	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	4

Parallel shank

DIN 2184-1		Designation NID	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		E23364-UNF5/16	UNF 5/16-24	7.938	24	90	18	67	6	4.9	8	4
		E23364-UNF3/8	UNF 3/8-24	9.525	24	100	20	77	7	5.5	8	4
		E23364-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
		E23364-UNF1/2	UNF 1/2-20	12.7	20	100	21	73	9	7	10	4
		E23364-UNF9/16	UNF 9/16-18	14.288	18	100	21	71	11	9	12	4
		E23364-UNF5/8	UNF 5/8-18	15.875	18	100	21	58	12	9	12	4
		E23364-UNF3/4	UNF 3/4-16	19.05	16	110	24	66	14	11	14	4
		E23364-UNF7/8	UNF 7/8-14	22.225	14	125	24	78	18	14.5	17	5

Parallel shank

HSS-E PM machine taps

mm

Paradur® Ni



- For long-chipping materials

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 25^\circ$

44HRC
1400-700 N/mm²

UNF
ASME B1.1

3B

	P	M	K	N	S	H	O
TiCN	●				●●		
uncoated	●				●●		

	~DIN 2184-1		D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	Designation TiCN	Designation uncoated										
	23410406-UNF8	234104-UNF8	UNF #8-36	4.166	36	63	13	42	4.5	3.4	6	3
	23410406-UNF10	234104-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
		234104-UNF12	UNF #12-28	5.486	28	80	15	23	6	4.9	8	3
	23410406-UNF1/4	234104-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	23410406-UNF5/16	234104-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	23410406-UNF3/8	234104-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	4

Parallel shank

≤ UNF 10: Without reduced neck after the thread

	DIN 2184-1		D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	Designation TiCN	Designation uncoated										
	23460406-UNF7/16	234604-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
		234604-UNF1/2	UNF 1/2-20	12.7	20	100	23	73	9	7	10	4
	23460406-UNF5/8	234604-UNF5/8	UNF 5/8-18	15.875	18	100	25	58	12	9	12	4

Parallel shank

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

UNF
ASME B1.1

3B

$\leq 2 \times D_N$

$C=2-3$

15°

44HRC
1400
-700
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	234164-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
	234164-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	234164-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	234164-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

Parallel shank

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□ mm	l _g mm	N
	234664-UNF7/16	UNF 7/16-20	11.113	20	100	20	8	6.2	9	4
	234664-UNF1/2	UNF 1/2-20	12.7	20	100	23	9	7	10	4
	234664-UNF5/8	UNF 5/8-18	15.875	18	100	25	12	9	12	4

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

UNF
ASME B1.1

2B

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	23416-UNF6	UNF #6-40	3.505	40	56	12	35	4	3	6	3
	23416-UNF10	UNF #10-32	4.826	32	70	16	16	6	4.9	8	3
	23416-UNF1/4	UNF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	23416-UNF5/16	UNF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	23416-UNF3/8	UNF 3/8-24	9.525	24	100	20	33.5	10	8	11	3

Parallel shank

≤ UNF 10: Without reduced neck after the thread

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	23466-UNF7/16	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
	23466-UNF1/2	UNF 1/2-20	12.7	20	100	23	73	9	7	10	4
	23466-UNF5/8	UNF 5/8-18	15.875	18	100	25	58	12	9	12	4

Parallel shank

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C1

HSS-E machine taps

mm

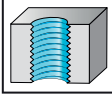
Prototex® X-pert P



- For long-chipping materials

UNEF
ASME B1.1

2B

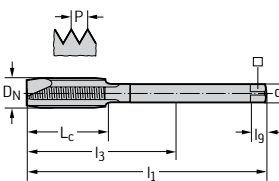


$\leq 3 \times D_N$

B=3,5-5

32HRC
1000-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
 <p>Parallel shank</p>	P233602-UNEF1/4	UNEF 1/4-32	6.35	32	80	15	59	4.5	3.4	6	3
	P233602-UNEF5/16	UNEF 5/16-32	7.938	32	90	18	67	6	4.9	8	3
	P233602-UNEF3/8	UNEF 3/8-32	9.525	32	90	20	67	7	5.5	8	3
	P233602-UNEF7/16	UNEF 7/16-28	11.113	28	90	20	66	8	6.2	9	3
	P233602-UNEF1/2	UNEF 1/2-28	12.7	28	100	21	73	9	7	10	4
	P233602-UNEF9/16	UNEF 9/16-24	14.288	24	100	21	71	11	9	12	4
	P233602-UNEF5/8	UNEF 5/8-24	15.875	24	100	21	58	12	9	12	4
	P233602-UNEF11/16	UNEF 11/16-24	17.463	24	110	24	66	14	11	14	4
	P233602-UNEF3/4	UNEF 3/4-20	19.05	20	110	24	66	14	11	14	4
	P233602-UNEF7/8	UNEF 7/8-20	22.225	20	125	24	78	18	14.5	17	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials

UNEF
ASME B1.1

2B

$\leq 3 \times D_N$

$C=2-3$

$\angle 45^\circ$

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1	Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	P235692-UNEF1/4	UNEF 1/4-32	6.35	32	80	10	59	4.5	3.4	6	3
	P235692-UNEF5/16	UNEF 5/16-32	7.938	32	90	12	67	6	4.9	8	3
	P235692-UNEF3/8	UNEF 3/8-32	9.525	32	90	12	67	7	5.5	8	3
	P235692-UNEF7/16	UNEF 7/16-28	11.113	28	90	15	66	8	6.2	9	3
	P235692-UNEF1/2	UNEF 1/2-28	12.7	28	100	13	73	9	7	10	4
	P235692-UNEF9/16	UNEF 9/16-24	14.288	24	100	15	71	11	9	12	4
	P235692-UNEF5/8	UNEF 5/8-24	15.875	24	100	15	58	12	9	12	4
	P235692-UNEF11/16	UNEF 11/16-24	17.463	24	110	17	66	14	11	14	4
	P235692-UNEF3/4	UNEF 3/4-20	19.05	20	110	17	66	14	11	14	4
	P235692-UNEF7/8	UNEF 7/8-20	22.225	20	125	18	78	18	14.5	17	4
	P235692-UNEF1	UNEF 1"-20	25.4	20	140	20	93	18	14.5	17	5

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials


UN-8
ASME B1.1

2B



\leq
3×DN

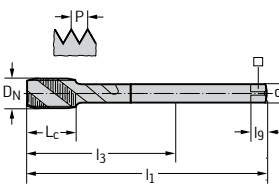
C=2-3



45°

32HRC
1000-200
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□ mm	l _g mm	N
 <p>Parallel shank</p>	P265676-UN1,1/8	UN 1.1/8-8	28.575	8	180	30	22	18	21	5	
	P265676-UN1,1/4	UN 1.1/4-8	31.75	8	180	30	22	18	21	5	
	P265676-UN1,3/8	UN 1.3/8-8	34.925	8	200	30	28	22	25	5	
	P265676-UN1,1/2	UN 1.1/2-8	38.1	8	200	30	28	22	25	5	
	P265676-UN1,5/8	UN 1.5/8-8	41.275	8	200	33	32	24	27	6	
	P265676-UN1,3/4	UN 1.3/4-8	44.45	8	200	33	36	29	32	6	
	P265676-UN1,7/8	UN 1.7/8-8	47.625	8	225	36	36	29	32	6	
	P265676-UN2	UN 2"-8	50.8	8	225	36	40	32	35	6	
	P265676-UN2,1/4	UN 2.1/4-8	57.15	8	250	36	45	35	38	6	

C1

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

HSS-E machine taps

mm

Paradur® X-pert M



– For long-chipping materials

UN-8
ASME B1.1

3B

$\leq 2,5 \times D_N$

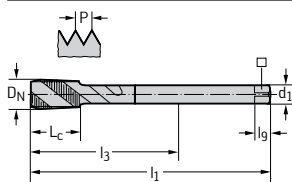
$C=2-3$

$\angle 40^\circ$

36HRC
1200
-700
N/mm²

	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●

DIN 2184-1-C	Designation VAP	D_N-P	D_N mm	Thread per inch	l_1 mm	L_c mm	d_1 h9 mm	\square mm	l_g mm	N
	M225532-UN1,1/8	UN 1.1/8-8	28.575	8	180	30	22	18	21	4
	M225532-UN1,1/4	UN 1.1/4-8	31.75	8	180	30	22	18	21	4



Parallel shank

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

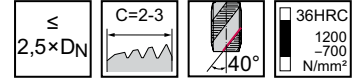
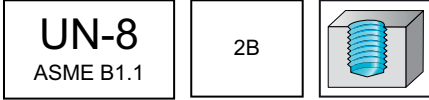
HSS-E machine taps

mm

Paradur® X-pert M

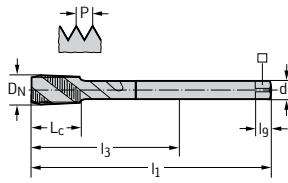


- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1



Parallel shank

Designation VAP	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	d ₁ h9 mm	□ mm	l ₃ mm	N
M225632-UN1,1/8	UN 1.1/8-8	28.575	8	180	30	22	18	21	4
M225632-UN1,1/4	UN 1.1/4-8	31.75	8	180	30	22	18	21	4
M225632-UN1,3/8	UN 1.3/8-8	34.925	8	200	30	28	22	25	5
M225632-UN1,1/2	UN 1.1/2-8	38.1	8	200	30	28	22	25	5
M225632-UN1,5/8	UN 1.5/8-8	41.275	8	200	33	32	24	27	5
M225632-UN1,3/4	UN 1.3/4-8	44.45	8	200	33	36	29	32	6
M225632-UN1,7/8	UN 1.7/8-8	47.625	8	225	36	36	29	32	6
M225632-UN2	UN 2"-8	50.8	8	225	36	40	32	35	6

C1

HSS-E PM machine taps

mm

Prototex® TiNi Plus



- Recommended with emulsion
- External diameter, rounded

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

MJ
DIN ISO 5855-1

ISO1/4H

	P	M	K	N	S	H	O
ACN					●●		

~DIN 371	Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	2020763-MJ3	MJ 3	0.5	56	10	10	3.5	2.7	6	2
	2020763-MJ4	MJ 4	0.7	63	13	13	4.5	3.4	6	3
	2020763-MJ5	MJ 5	0.8	70	16	16	6	4.9	8	3
	2020763-MJ6	MJ 6	1	80	15	23	6	4.9	8	3
	2020763-MJ8	MJ 8	1.25	90	18	29	8	6.2	9	3
	2020763-MJ10	MJ 10	1.5	100	20	33	10	8	11	3

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ni 10



- External diameter, rounded
- For long- and short-chipping materials

MJ

DIN ISO 5855-1

ISO1/4H

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 10^\circ$

49HRC

1600
-1000
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	2041014-MJ3	MJ 3	0.5	56	8	8	3.5	2.7	6	3
	2041014-MJ4	MJ 4	0.7	63	10.5	10.5	4.5	3.4	6	3
	2041014-MJ5	MJ 5	0.8	70	13	13	6	4.9	8	3
	2041014-MJ6	MJ 6	1	80	15.5	15.5	6	4.9	8	3

Parallel shank

Without reduced neck after the thread

C1

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

HSS-E PM machine taps

mm

Paradur® Ti



- Recommended with oil
- External diameter, rounded

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

MJ
DIN ISO 5855-1

ISO1/4H

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	204164-MJ3	MJ 3	0.5	56	10	10	3.5	2.7	6	3
	204164-MJ4	MJ 4	0.7	63	13	13	4.5	3.4	6	3
	204164-MJ5	MJ 5	0.8	70	16	16	6	4.9	8	3
	204164-MJ6	MJ 6	1	80	15	23	6	4.9	8	3
	204164-MJ8	MJ 8	1.25	90	18	29.5	8	6.2	9	3
	204164-MJ10	MJ 10	1.5	100	20	33.5	10	8	11	3
	Parallel shank									

≤ MJ 5: Without reduced neck after the thread

C1

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Paradur® Ti Plus



- Recommended with emulsion
- External diameter, rounded

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

MJ
DIN ISO 5855-1

ISO1/4H

ACN

~DIN 371		Designation ACN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
		2040663-MJ3	MJ 3	0.5	56	10	10	3.5	2.7	6	3
		2040663-MJ4	MJ 4	0.7	63	13	13	4.5	3.4	6	3
		2040663-MJ5	MJ 5	0.8	70	16	16	6	4.9	8	3
		2040663-MJ6	MJ 6	1	80	15	23	6	4.9	8	3
		2040663-MJ8	MJ 8	1.25	90	18	29	8	6.2	9	3
		2040663-MJ10	MJ 10	1.5	100	20	33	10	8	11	3

Parallel shank

C1

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi Plus



- Recommended with emulsion
- External diameter, rounded

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

UNJC
ASME B1.15

3B

	P	M	K	N	S	H	O
ACN					●●		

~DIN 2184-1	Designation ACN	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	2220763-UNJC4	UNJC #4	2.845	40	56	10	10	3.5	2.7	6	2
	2220763-UNJC6	UNJC #6	3.505	32	56	12	12	4	3	6	3
	2220763-UNJC8	UNJC #8	4.166	32	63	13	13	4.5	3.4	6	3
	2220763-UNJC10	UNJC #10	4.826	24	70	16	16	6	4.9	8	3
	2220763-UNJC1/4	UNJC 1/4	6.35	20	80	15	25	7	5.5	8	3
	2220763-UNJC5/16	UNJC 5/16	7.938	18	90	18	29	8	6.2	9	3
	2220763-UNJC3/8	UNJC 3/8	9.525	16	100	20	33	10	8	11	3

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

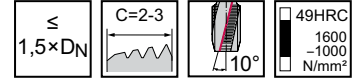
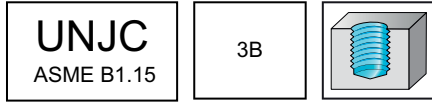
HSS-E PM machine taps

mm

Paradur® Ni 10



- External diameter, rounded
- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1	Designation uncoated	D_N	D_N mm	Thread per Inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
	224101-UNJC4	UNJC #4	2.845	40	56	8	8	3.5	2.7	6	3
	224101-UNJC6	UNJC #6	3.505	32	56	10	10	4	3	6	3
	224101-UNJC8	UNJC #8	4.166	32	63	11	11	4.5	3.4	6	3
	224101-UNJC10	UNJC #10	4.826	24	70	13.5	13.5	6	4.9	8	3
	224101-UNJC1/4	UNJC 1/4	6.35	20	80	17.5	17.5	7	5.5	8	3
	224101-UNJC5/16	UNJC 5/16	7.938	18	90	21	21	8	6.2	9	3
	224101-UNJC3/8	UNJC 3/8	9.525	16	100	25	25	10	8	11	3
	Parallel shank										

≤ UNC 10: Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ti Plus



- Recommended with emulsion
- External diameter, rounded

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

UNJC
ASME B1.15

3B

	P	M	K	N	S	H	O
ACN					●●		

~DIN 2184-1	Designation ACN	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	2240663-UNJC4	UNJC #4	2.845	40	56	10	10	3.5	2.7	6	3
	2240663-UNJC6	UNJC #6	3.505	32	56	12	12	4	3	6	3
	2240663-UNJC8	UNJC #8	4.166	32	63	13	13	4.5	3.4	6	3
	2240663-UNJC10	UNJC #10	4.826	24	70	16	16	6	4.9	8	3
	2240663-UNJC1/4	UNJC 1/4	6.35	20	80	15	25	7	5.5	8	3
	2240663-UNJC5/16	UNJC 5/16	7.938	18	90	18	29	8	6.2	9	3
	2240663-UNJC3/8	UNJC 3/8	9.525	16	100	20	33	10	8	11	3

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi Plus



- Recommended with emulsion
- External diameter, rounded

$\leq 2 \times D_N$

$B=3,5-5$

44HRC
1400-700 N/mm²

UNJF
ASME B1.15

3B

	P	M	K	N	S	H	O
ACN					●●		

~DIN 2184-1	Designation ACN	D _N -P	D _N mm	Thread per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	2320763-UNJF6	UNJF #6-40	3.505	40	56	12	12	4	3	6	3
	2320763-UNJF8	UNJF #8-36	4.166	36	63	13	13	4.5	3.4	6	3
	2320763-UNJF10	UNJF #10-32	4.826	32	70	16	16	6	4.9	8	3
	2320763-UNJF12	UNJF #12-28	5.486	28	80	15	23	6	4.9	8	3
	2320763-UNJF1/4	UNJF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	2320763-UNJF5/16	UNJF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	2320763-UNJF3/8	UNJF 3/8-24	9.525	24	100	20	33.5	10	8	11	3
	2320763-UNJF7/16	UNJF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
	2320763-UNJF1/2	UNJF 1/2-20	12.7	20	100	23	73	9	7	10	4
	2320763-UNJF9/16	UNJF 9/16-18	14.288	18	100	25	71	11	9	12	4
	2320763-UNJF5/8	UNJF 5/8-18	15.875	18	100	25	58	12	9	12	4
	2320763-UNJF7/8	UNJF 7/8-14	22.225	14	125	30	78	18	14.5	17	4

≤ UNJF 10: Without reduced neck after the thread

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

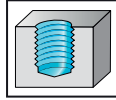
Paradur® Ni 10



- External diameter, rounded
- For long- and short-chipping materials

UNJF
ASME B1.15

3B



$\leq 1,5 \times D_N$

$C=2-3$

$\angle 10^\circ$

49HRC
1600
-1000
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1		Designation uncoated	D_N -P	D_N mm	Thread per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
<p>Parallel shank</p>	234101-UNJF6	UNJF #6-40	3.505	40	56	9.5	9.5	4	3	6	3	
	234101-UNJF8	UNJF #8-36	4.166	36	63	11	11	4.5	3.4	6	3	
	234101-UNJF10	UNJF #10-32	4.826	32	70	12.5	12.5	6	4.9	8	3	
	234101-UNJF12	UNJF #12-28	5.486	28	80	14.5	14.5	6	4.9	8	3	
	234101-UNJF1/4	UNJF 1/4-28	6.35	28	80	16	16	7	5.5	8	3	
	234101-UNJF5/16	UNJF 5/16-24	7.938	24	90	20	20	8	6.2	9	3	
	234101-UNJF3/8	UNJF 3/8-24	9.525	24	100	23	23	10	8	11	3	
	234101-UNJF7/16	UNJF 7/16-20	11.113	20	100	27	27	12	9	12	4	
	234101-UNJF1/2	UNJF 1/2-20	12.7	20	100	30	30	14	11	14	4	
	234101-UNJF9/16	UNJF 9/16-18	14.288	18	100	33.5	56	14	11	14	4	
	234101-UNJF5/8	UNJF 5/8-18	15.875	18	100	37	55	16	12	15	4	
	234101-UNJF7/8	UNJF 7/8-14	22.225	14	125	51	78	18	14.5	17	5	

≤ UNJF 10: Without reduced neck after the thread

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ti Plus



- Recommended with emulsion
- External diameter, rounded

UNJF
ASME B1.15

3B

$\leq 2 \times D_N$

$C=2-3$

44HRC
1400-700
N/mm²

	P	M	K	N	S	H	O
ACN					●●		

~DIN 2184-1	Designation ACN	D_N -P	D_N mm	Thread per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
<p>Parallel shank</p>	2340663-UNJF6	UNJF #6-40	3.505	40	56	12	12	4	3	6	3
	2340663-UNJF8	UNJF #8-36	4.166	36	63	13	13	4.5	3.4	6	3
	2340663-UNJF10	UNJF #10-32	4.826	32	70	16	16	6	4.9	8	3
	2340663-UNJF12	UNJF #12-28	5.486	28	80	15	23	6	4.9	8	3
	2340663-UNJF1/4	UNJF 1/4-28	6.35	28	80	15	25	7	5.5	8	3
	2340663-UNJF5/16	UNJF 5/16-24	7.938	24	90	18	29.5	8	6.2	9	3
	2340663-UNJF3/8	UNJF 3/8-24	9.525	24	100	20	33.5	10	8	11	3
	2340663-UNJF7/16	UNJF 7/16-20	11.113	20	100	20	76	8	6.2	9	4
	2340663-UNJF1/2	UNJF 1/2-20	12.7	20	100	23	73	9	7	10	4
	2340663-UNJF9/16	UNJF 9/16-18	14.288	18	100	25	71	11	9	12	4
	2340663-UNJF5/8	UNJF 5/8-18	15.875	18	100	25	58	12	9	12	4
	2340663-UNJF7/8	UNJF 7/8-14	22.225	14	125	30	78	18	14.5	17	5

≤ UNJF 10: Without reduced neck after the thread

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

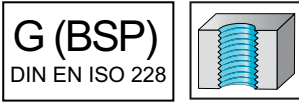
HSS-E PM machine taps

mm

Prototex® Eco Plus



- For long-chipping materials



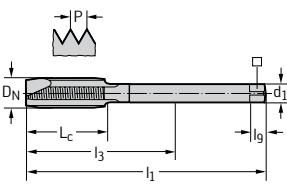
$\leq 3,5 \times D_N$

$B=3,5-5$

42HRC
1350
-500
N/mm²

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

DIN 5156											
Designation THL	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	
EP2426302-G1/8	G 1/8	9.728	28	90	20	67	7	5.5	8	3	
EP2426302-G1/4	G 1/4	13.157	19	100	21	71	11	9	12	4	
EP2426302-G3/8	G 3/8	16.662	19	100	21	58	12	9	12	4	
EP2426302-G1/2	G 1/2	20.955	14	125	24	80	16	12	15	4	
EP2426302-G5/8	G 5/8	22.911	14	125	24	78	18	14.5	17	4	
EP2426302-G3/4	G 3/4	26.441	14	140	26	77	20	16	19	5	
EP2426302-G1	G 1"	33.249	11	160	28	93	25	20	23	5	



Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

Prototex® X-pert P



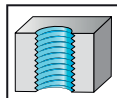
- For long-chipping materials

$\leq 3 \times D_N$

$B=3,5-5$

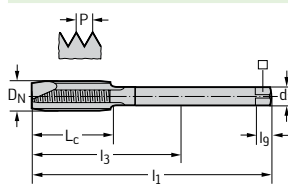
32HRC
1000
-200
N/mm²

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 5156



Parallel shank

Designation TIN	Designation uncoated	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
P2436005-G1/8	P24360-G1/8	G 1/8	9.728	28	90	20	67	7	5.5	8	3
P2436005-G1/4	P24360-G1/4	G 1/4	13.157	19	100	21	71	11	9	12	3
P2436005-G3/8	P24360-G3/8	G 3/8	16.662	19	100	21	58	12	9	12	4
P2436005-G1/2	P24360-G1/2	G 1/2	20.955	14	125	24	80	16	12	15	4
	P24360-G5/8	G 5/8	22.911	14	125	24	78	18	14.5	17	4
P2436005-G3/4	P24360-G3/4	G 3/4	26.441	14	140	26	77	20	16	19	4
	P24360-G7/8	G 7/8	30.201	14	150	26	85	22	18	21	4
P2436005-G1	P24360-G1	G 1"	33.249	11	160	28	93	25	20	23	4
	P24360-G1,1/4	G 1.1/4	41.91	11	170	28	72	32	24	27	4
	P24360-G1,1/2	G 1.1/2	47.803	11	190	30	87	36	29	32	5
	P24360-G2	G 2"	59.614	11	220	34	87	45	35	38	5

l_9 dimensions in accordance with DIN 10

C1

HSS-E machine taps

mm

Prototex® X-pert M



– For long-chipping materials

$\leq 3 \times D_N$

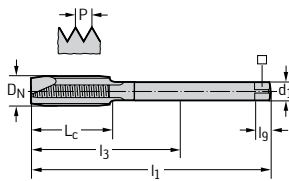
$B=3,5-5$

36HRC
 $1200-700$
 N/mm^2

G (BSP)
 DIN EN ISO 228

	P	M	K	N	S	H	O
TIN	●	●●	●	●	●	●	●
VAP	●	●●	●	●	●	●	●

DIN 5156



Parallel shank

Designation TIN	Designation VAP	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
M2426305-G1/8	M24263-G1/8	G 1/8	9.728	28	90	20	67	7	5.5	8	3
M2426305-G1/4	M24263-G1/4	G 1/4	13.157	19	100	21	71	11	9	12	4
M2426305-G3/8	M24263-G3/8	G 3/8	16.662	19	100	21	58	12	9	12	4
M2426305-G1/2	M24263-G1/2	G 1/2	20.955	14	125	24	80	16	12	15	4
M2426305-G3/4	M24263-G3/4	G 3/4	26.441	14	140	26	77	20	16	19	4
M2426305-G1	M24263-G1	G 1"	33.249	11	160	28	93	25	20	23	5

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

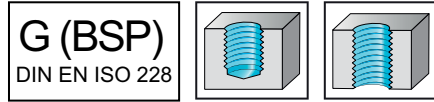
HSS-E taps, short

mm

KMB Ms



- For short-chipping materials



$\leq 3 \times D_N$ $F=1-1,5$ Tol. +0,05 mm S 25HRC
 850-350 N/mm²

	P	M	K	N	S	H	O
uncoated				●●			●

DIN 5157	Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	24165-G1/8	G 1/8	9.728	28	63	20	40	7	5,5	8	3
	24165-G1/4	G 1/4	13.157	19	70	20	41	11	9	12	4
	24165-G3/8	G 3/8	16.662	19	70	20	28	12	9	12	4
	24165-G1/2	G 1/2	20.955	14	80	22	35	16	12	15	6
	24165-G3/4	G 3/4	26.441	14	90	22	27	20	16	19	6
	24165-G1	G 1"	33.249	11	100	25	33	25	20	23	6

Parallel shank

Thread machining allowance 0.05 mm

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

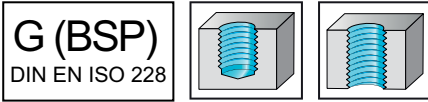
HSS-E taps, short

mm

KMB Ms



- For short-chipping materials



G (BSP)
DIN EN ISO 228

≤
3×DN

F=1-1,5

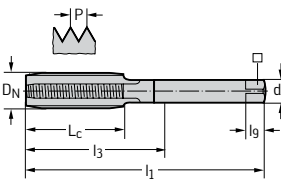
Tol.
+ 0,1 mm

S
+l₁

25HRC
850
-350
N/mm²

	P	M	K	N	S	H	O
uncoated				●●			●

DIN 5157



Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
24195-G1/8	G 1/8	9.728	28	63	20	40	7	5.5	8	3
24195-G1/4	G 1/4	13.157	19	70	20	41	11	9	12	4
24195-G3/8	G 3/8	16.662	19	70	20	28	12	9	12	4
24195-G1/2	G 1/2	20.955	14	80	22	35	16	12	15	6
24195-G3/4	G 3/4	26.441	14	90	22	27	20	16	19	6

Parallel shank

Thread machining allowance 0.1 mm

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

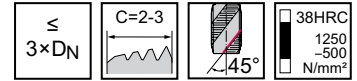
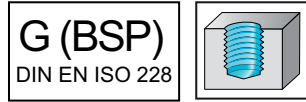
HSS-E PM machine taps

mm

Paradur® Eco Plus



- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN 5156		Designation THL	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	
		EP2456302-G1/8	G 1/8	9.728	28	90	12	67	7	5.5	8	3	
		EP2456302-G1/4	G 1/4	13.157	19	100	15	71	11	9	12	4	
		EP2456302-G3/8	G 3/8	16.662	19	100	15	58	12	9	12	4	
		EP2456302-G1/2	G 1/2	20.955	14	125	18	80	16	12	15	4	
		EP2456302-G5/8	G 5/8	22.911	14	125	18	78	18	14.5	17	4	
		EP2456302-G3/4	G 3/4	26.441	14	140	20	77	20	16	19	5	
	Parallel shank		EP2456302-G1	G 1"	33.249	11	160	22	93	25	20	23	5

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Paradur® Synchrospeed



- For long-chipping materials
- Only for synchronous machining (rigid tapping)

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

40HRC
1300 N/mm²

G (BSP)
DIN EN ISO 228

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

~DIN 5156	Designation THL	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_g mm	N
<p>Parallel shank</p>	S2456302-G1/8	G 1/8	9.728	28	90	9.5	39	10	8	11	3
	S2456302-G1/4	G 1/4	13.157	19	100	14	46	14	11	14	3
	S2456302-G3/8	G 3/8	16.662	19	100	14	62.5	16	12	15	4
	S2456302-G1/2	G 1/2	20.955	14	125	19	50	20	16	19	4

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

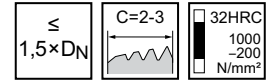
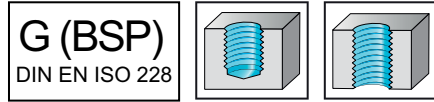
HSS-E machine taps

mm

Paradur® H

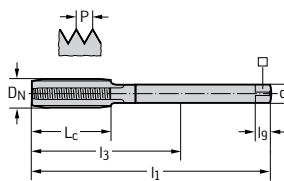


- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN 5156											
Designation uncoated	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N	
24361-G1/8	G 1/8	9.728	28	90	20	67	7	5.5	8	3	
24361-G1/4	G 1/4	13.157	19	100	21	71	11	9	12	4	
24361-G3/8	G 3/8	16.662	19	100	21	58	12	9	12	4	
24361-G1/2	G 1/2	20.955	14	125	24	80	16	12	15	4	
24361-G5/8	G 5/8	22.911	14	125	24	78	18	14.5	17	4	
24361-G3/4	G 3/4	26.441	14	140	26	77	20	16	19	4	
24361-G1	G 1"	33.249	11	160	28	93	25	20	23	4	
24361-G1,1/4	G 1.1/4	41.91	11	170	28	72	32	24	27	4	
24361-G1,1/2	G 1.1/2	47.803	11	190	30	87	36	29	32	6	
24361-G2	G 2"	59.614	11	220	34	87	45	35	38	6	
24361-G2,1/2	G 2.1/2	75.184	11	275	38	138	50	39	42	6	



Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

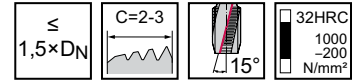
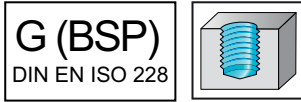
HSS-E machine taps

mm

Paradur® N



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			

DIN 5156	Designation uncoated	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
<p>Parallel shank</p>	24460-G1/8	G 1/8	9.728	28	90	20	67	7	5.5	8	3
	24460-G1/4	G 1/4	13.157	19	100	21	71	11	9	12	4
	24460-G3/8	G 3/8	16.662	19	100	21	58	12	9	12	4
	24460-G1/2	G 1/2	20.955	14	125	24	80	16	12	15	4
	24460-G3/4	G 3/4	26.441	14	140	26	77	20	16	19	4
	24460-G1	G 1"	33.249	11	160	28	93	25	20	23	4

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

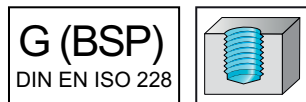
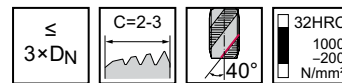
HSS-E machine taps

mm

Paradur® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●			●			●
uncoated	●●			●			●

DIN 5156		Designation TIN	Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	P2456905-G1/8	P24569-G1/8	G 1/8	9.728	28	90	12	67	7	5.5	8	3	
	P2456905-G1/4	P24569-G1/4	G 1/4	13.157	19	100	15	71	11	9	12	4	
	P2456905-G3/8	P24569-G3/8	G 3/8	16.662	19	100	15	58	12	9	12	4	
	P2456905-G1/2	P24569-G1/2	G 1/2	20.955	14	125	18	80	16	12	15	4	
		P24569-G5/8	G 5/8	22.911	14	125	18	78	18	14.5	17	4	
	P2456905-G3/4	P24569-G3/4	G 3/4	26.441	14	140	20	77	20	16	19	5	
		P24569-G7/8	G 7/8	30.201	14	150	20	85	22	18	21	5	
	P2456905-G1	P24569-G1	G 1"	33.249	11	160	22	93	25	20	23	5	
		P24569-G1.1/8	G 1.1/8	37.897	11	170	22	101	28	22	25	5	
		P24569-G1.1/4	G 1.1/4	41.91	11	170	22	72	32	24	27	6	
		P24569-G1.1/2	G 1.1/2	47.803	11	190	24	87	36	29	32	6	
		P24569-G1.3/4	G 1.3/4	53.746	11	190	26	60	40	32	35	6	
		P24569-G2	G 2"	59.614	11	220	28	87	45	35	38	6	

C1

HSS-E machine taps

mm

Paradur® STE



- For long-chipping materials

$\leq 2,5 \times D_N$

$E=1,5-2$

$\angle 40^\circ$

36HRC
1200-350
N/mm²

G (BSP)
DIN EN ISO 228

	P	M	K	N	S	H	O
THL	●	●	●	●	●	●	●
uncoated	●	●	●	●	●	●	●

DIN 5156		Designation THL	Designation uncoated	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>		2456062-G1/8	245606-G1/8	G 1/8	9.728	28	90	12	67	7	5.5	8	4
		2456062-G1/4	245606-G1/4	G 1/4	13.157	19	100	15	71	11	9	12	5
		2456062-G3/8	245606-G3/8	G 3/8	16.662	19	100	15	58	12	9	12	5
		2456062-G1/2	245606-G1/2	G 1/2	20.955	14	125	18	80	16	12	15	5

C1

WALTER SELECT

●● Primary application ● Other application

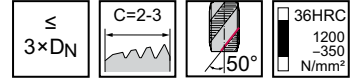
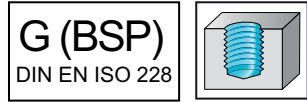
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E (-PM) machine taps

TC142 Supreme

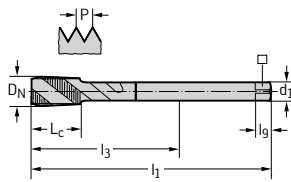


- WY80FC: Best chip control



	P	M	K	N	S	H	O
WY80FC (VAP)	●	●●					

DIN 5156												WY80FC
Designation	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC142-G1/8-L0-	G 1/8	9.728	28	90	12	67	7	5.5	8	3	☹	
TC142-G1/4-L0-	G 1/4	13.157	19	100	15	71	11	9	12	4	☹	



Parallel shank

Ordering example for the grade WY80FC: TC142-G1/4-L0-WY80FC

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine taps

mm

Paradur® X-pert M



– For long-chipping materials

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

36HRC
 1200
 -700
 N/mm²

G (BSP)
 DIN EN ISO 228

	P	M	K	N	S	H	O
TIN	●	●●	●	●	●	●	●
VAP	●	●●	●	●	●	●	●

DIN 5156		Designation TIN	Designation VAP	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
<p>Parallel shank</p>	M2456305-G1/8	M24563-G1/8	G 1/8	9.728	28	90	12	67	7	5.5	8	3	
	M2456305-G1/4	M24563-G1/4	G 1/4	13.157	19	100	15	71	11	9	12	4	
	M2456305-G3/8	M24563-G3/8	G 3/8	16.662	19	100	15	58	12	9	12	4	
	M2456305-G1/2	M24563-G1/2	G 1/2	20.955	14	125	18	80	16	12	15	4	
		M24563-G5/8	G 5/8	22.911	14	125	18	78	18	14.5	17	4	
	M2456305-G3/4	M24563-G3/4	G 3/4	26.441	14	140	20	77	20	16	19	5	
		M24563-G7/8	G 7/8	30.201	14	150	20	85	22	18	21	5	
	M2456305-G1	M24563-G1	G 1"	33.249	11	160	22	93	25	20	23	5	

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

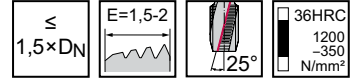
HSS-E machine taps

mm

Paradur Inox® 25

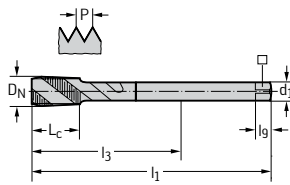


- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●	●●					

DIN 5156



Designation TIN	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
2456315-G1/4	G 1/4	13.157	19	100	18	71	11	9	12	5
2456315-G3/8	G 3/8	16.662	19	100	22	58	12	9	12	5
2456315-G1/2	G 1/2	20.955	14	125	25	80	16	12	15	6
2456315-G3/4	G 3/4	26.441	14	140	28	77	20	16	19	6

Parallel shank

C1

HSS-E PM machine taps

mm

Paradur® Eco CI



- For short-chipping materials
- Nitrided

$\leq 3 \times D_N$

$C=2-3$

32HRC
 1000
 -100
 N/mm²

G (BSP)
 DIN EN ISO 228

	P	M	K	N	S	H	O
TICN			●●	●●			●●
NID			●●	●●			●●

DIN 5156	Designation NID	Designation TICN	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	E24364-G1/8	E2436406-G1/8	G 1/8	9.728	28	90	20	67	7	5.5	8	4
	E24364-G1/4	E2436406-G1/4	G 1/4	13.157	19	100	21	71	11	9	12	4
	E24364-G3/8	E2436406-G3/8	G 3/8	16.662	19	100	21	58	12	9	12	5
	E24364-G1/2	E2436406-G1/2	G 1/2	20.955	14	125	24	80	16	12	15	5
	E24364-G3/4	E2436406-G3/4	G 3/4	26.441	14	140	26	77	20	16	19	6
	E24364-G1	E2436406-G1	G 1"	33.249	11	160	28	93	25	20	23	6
	E24364-G1,1/4	E2436406-G1,1/4	G 1.1/4	41.91	11	170	28	72	32	24	27	6
		E2436406-G1,1/2	G 1.1/2	47.803	11	190	30	87	36	29	32	6

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

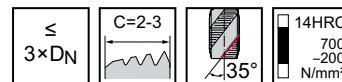
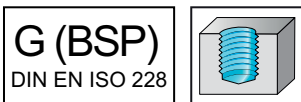
HSS-E machine taps

mm

Paradur® X-pert N



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 5156	Designation uncoated	D_N	D_N mm	Threads per inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_9 mm	N
	N24566-G1/8	G 1/8	9.728	28	90	12	67	7	5.5	8	3

Parallel shank

C1

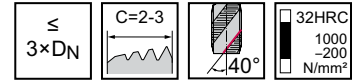
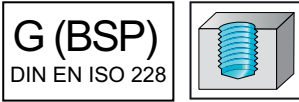
HSS-E machine taps

mm

Paradur® Uni



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●	●			

DIN 5156	Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	7456770-G1/8	G 1/8	9.728	28	90	12	67	7	5.5	8	3
	7456770-G1/4	G 1/4	13.157	19	100	15	71	11	9	12	4
	7456770-G3/8	G 3/8	16.662	19	100	15	58	12	9	12	4
	7456770-G1/2	G 1/2	20.955	14	125	18	80	16	12	15	4
	7456770-G3/4	G 3/4	26.441	14	140	20	77	20	16	19	5
	7456770-G1	G 1"	33.249	11	160	22	93	25	20	23	5

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

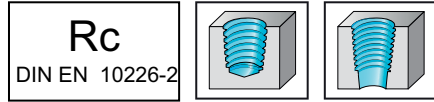
HSS-E machine taps

mm

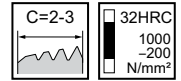
Paradur® H



- For long- and short-chipping materials



Rc
DIN EN 10226-2



	P	M	K	N	S	H	O
uncoated			●	●●			●

PWZ-NORM	Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	24167-RC1/8	Rc 1/8	9.728	28	90	13	67	7	5.5	6	4
	24167-RC1/4	Rc 1/4	13.157	19	100	20	71	11	9	9	4
	24167-RC3/8	Rc 3/8	16.662	19	110	20	68	12	9	9	4
	24167-RC1/2	Rc 1/2	20.955	14	125	26	80	16	12	12	5
	24167-RC3/4	Rc 3/4	26.441	14	140	26	77	20	16	16	5
	24167-RC1	Rc 1"	33.249	11	150	32	83	25	20	20	5
	24167-RC1,1/4	Rc 1.1/4	41.91	11	160	32	62	32	24	24	6
	24167-RC1,1/2	Rc 1.1/2	47.803	11	180	32	77	36	29	29	6

Parallel shank

Taper ratio 1:16

C1

WALTER SELECT ●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

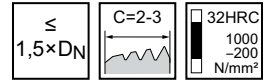
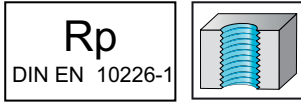
HSS-E machine taps

mm

Paradur® H



- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN 5156	Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	243612-RP1/8	Rp 1/8	9.728	28	90	20	67	7	5.5	8	3
	243612-RP1/4	Rp 1/4	13.157	19	100	21	71	11	9	12	4
	243612-RP3/8	Rp 3/8	16.662	19	100	21	58	12	9	12	4
	243612-RP1/2	Rp 1/2	20.955	14	125	24	80	16	12	15	4
	243612-RP3/4	Rp 3/4	26.441	14	140	26	77	20	16	19	4
	243612-RP1	Rp 1"	33.249	11	160	28	93	25	20	23	4
	243612-RP1.1/2	Rp 1.1/2"	47.803	11	190	30	87	36	29	32	6

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

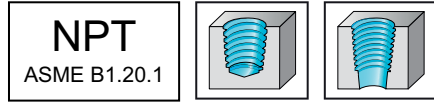
HSS-E machine taps

mm

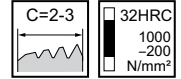
Paradur® H



- For long- and short-chipping materials



NPT
ASME B1.20.1



	P	M	K	N	S	H	O
uncoated			●	●●			●

PWZ-NORM	Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	25167-NPT1/16	NPT 1/16	7.717	27	80	14	56	8	6.2	6	3
	25167-NPT1/8	NPT 1/8	10.065	27	90	14	61	11	9	9	3
	25167-NPT1/4	NPT 1/4	13.372	18	100	20	56	14	11	11	3
	25167-NPT3/8	NPT 3/8	16.812	18	110	20	65	16	12	12	4
	25167-NPT1/2	NPT 1/2	20.947	14	125	26	78	18	14.5	15	4
	25167-NPT3/4	NPT 3/4	26.292	14	140	26	75	22	18	18	5
	25167-NPT1	NPT 1"	32.914	11.5	150	31	81	28	22	22	5
	25167-NPT1.1/4	NPT 1.1/4	41.67	11.5	160	31	62	32	24	24	5
	25167-NPT1.1/2	NPT 1.1/2	47.74	11.5	160	31	57	36	29	29	6
	25167-NPT2	NPT 2"	59.778	11.5	180	31	47	45	35	35	7

Taper ratio 1:16

C1

WALTER SELECT ●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

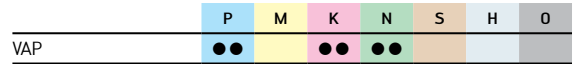
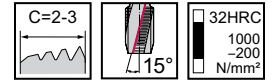
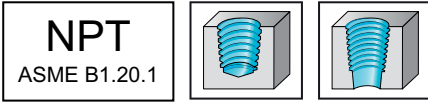
HSS-E machine taps

mm

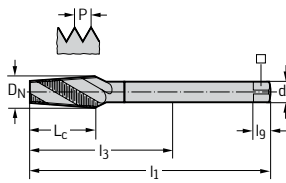
Paradur® N



– For long-chipping materials



PWZ-NORM



Designation VAP	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
25460-NPT1/16	NPT 1/16	7.717	27	80	14	56	8	6.2	6	3
25460-NPT1/8	NPT 1/8	10.065	27	90	14	61	11	9	9	3
25460-NPT1/4	NPT 1/4	13.372	18	100	20	56	14	11	11	3
25460-NPT3/8	NPT 3/8	16.812	18	110	20	65	16	12	12	4
25460-NPT1/2	NPT 1/2	20.947	14	125	26	78	18	14.5	15	4
25460-NPT3/4	NPT 3/4	26.292	14	140	26	75	22	18	18	5
25460-NPT1	NPT 1"	32.914	11.5	150	31	81	28	22	22	5

Parallel shank

Taper ratio 1:16

C1

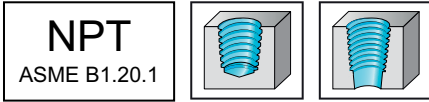
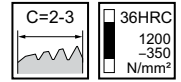
HSS-E machine taps

mm

Paradur Inox®

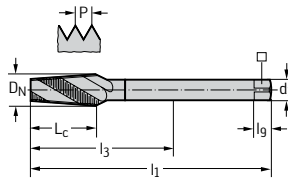


- For long-chipping materials



	P	M	K	N	S	H	O
THL	●●	●●	●				
VAP	●●	●●	●				

PWZ-NORM



Designation THL	Designation VAP	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
	25567-NPT1/16	NPT 1/16	7.717	27	80	14	56	8	6.2	6	3
2556702-NPT1/8	25567-NPT1/8	NPT 1/8	10.065	27	90	14	61	11	9	9	4
2556702-NPT1/4	25567-NPT1/4	NPT 1/4	13.372	18	100	20	56	14	11	11	4
2556702-NPT3/8	25567-NPT3/8	NPT 3/8	16.812	18	110	20	65	16	12	12	5
2556702-NPT1/2	25567-NPT1/2	NPT 1/2	20.947	14	125	26	78	18	14.5	15	5
	25567-NPT3/4	NPT 3/4	26.292	14	140	26	75	22	18	18	5
Parallel shank	25567-NPT1	NPT 1"	32.914	11.5	150	31	81	28	22	22	5

Parallel shank

Taper ratio 1:16

C1

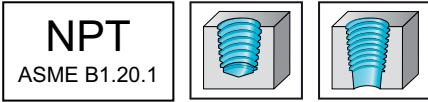
HSS-E machine taps

mm

Paradur Inox® 40

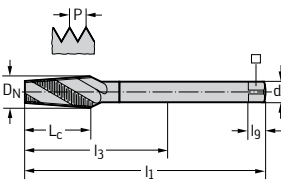


– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●	●●	●	●			

PWZ-NORM



Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N
255630-NPT1/8	NPT 1/8	10.065	27	90	14	61	11	9	9	3
255630-NPT1/4	NPT 1/4	13.372	18	100	20	56	14	11	11	3
255630-NPT3/8	NPT 3/8	16.812	18	110	20	65	16	12	12	4
255630-NPT1/2	NPT 1/2	20.947	14	125	26	78	18	14.5	15	4

Parallel shank

Taper ratio 1:16

C1

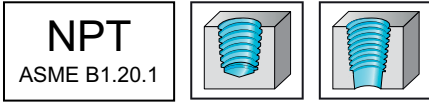
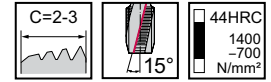
WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

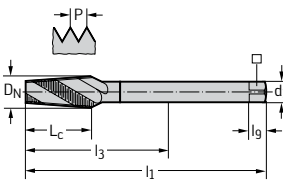
mm

Paradur® Ni



	P	M	K	N	S	H	O
TICN	●				●●		
uncoated	●				●●		

PWZ-NORM



Designation TICN	Designation uncoated	DN	DN mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
2546706-NPT1/16	25467-NPT1/16	NPT 1/16	7.717	27	80	14	56	8	6.2	6	3
2546706-NPT1/8	25467-NPT1/8	NPT 1/8	10.065	27	90	14	61	11	9	9	4
2546706-NPT1/4	25467-NPT1/4	NPT 1/4	13.372	18	100	20	56	14	11	11	4
2546706-NPT3/8	25467-NPT3/8	NPT 3/8	16.812	18	110	20	65	16	12	12	5
2546706-NPT1/2	25467-NPT1/2	NPT 1/2	20.947	14	125	26	78	18	14.5	15	5
2546706-NPT3/4	25467-NPT3/4	NPT 3/4	26.292	14	140	26	75	22	18	18	5
Parallel shank 2546706-NPT1	25467-NPT1	NPT 1"	32.914	11.5	150	31	81	28	22	22	5

Taper ratio 1:16

C1

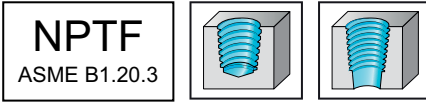
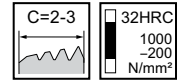
HSS-E machine taps

mm

Paradur® H



- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

PWZ-NORM	Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	26167-NPTF1/16	NPTF 1/16	7.635	27	80	14	56	8	6.2	6	3
	26167-NPTF1/8	NPTF 1/8	9.982	27	90	14	61	11	9	9	3
	26167-NPTF1/4	NPTF 1/4	13.313	18	100	20	56	14	11	11	3
	26167-NPTF3/8	NPTF 3/8	16.752	18	110	20	65	16	12	12	4
	26167-NPTF1/2	NPTF 1/2	20.921	14	125	26	78	18	14.5	15	4
	26167-NPTF3/4	NPTF 3/4	26.267	14	140	26	75	22	18	18	5
	26167-NPTF1	NPTF 1"	32.839	11.5	150	31	81	28	22	22	5
	Parallel shank										

Taper ratio 1:16

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

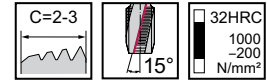
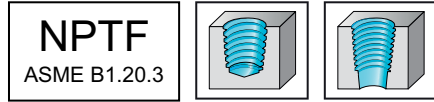
HSS-E machine taps

mm

Paradur® N



- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●		●●	●●			

PWZ-NORM	Designation	D_N	D_N	Threads	l_1	L_c	l_3	d_1	l_9	N
	VAP		mm	per inch	mm	mm	mm	h9 mm	mm	
	26460-NPTF1/16	NPTF 1/16	7.635	27	80	14	56	8	6.2	3
	26460-NPTF1/8	NPTF 1/8	9.982	27	90	14	61	11	9	3
	26460-NPTF1/4	NPTF 1/4	13.313	18	100	20	56	14	11	3
	26460-NPTF3/8	NPTF 3/8	16.752	18	110	20	65	16	12	4
	26460-NPTF1/2	NPTF 1/2	20.921	14	125	26	78	18	14.5	4
	26460-NPTF3/4	NPTF 3/4	26.267	14	140	26	75	22	18	5

Parallel shank

Taper ratio 1:16

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

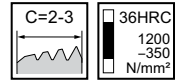
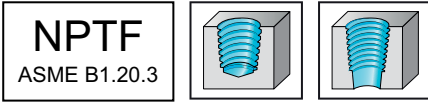
HSS-E machine taps

mm

Paradur Inox®

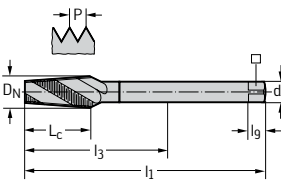


– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●	●●	●				

PWZ-NORM



Designation VAP	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
26567-NPTF1/16	NPTF 1/16	7.635	27	80	14	56	8	6.2	6	3
26567-NPTF1/8	NPTF 1/8	9.982	27	90	14	61	11	9	9	4
26567-NPTF1/4	NPTF 1/4	13.313	18	100	20	56	14	11	11	4
26567-NPTF1/2	NPTF 1/2	20.921	14	125	26	78	18	14.5	15	5

Parallel shank

Taper ratio 1:16

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

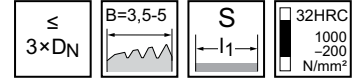
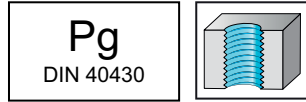
HSS-E taps, short

mm

KMB H



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			●

DIN 40432		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	27160-PG7	Pg 7-20	12.5	20	70	20	43	9	7	10	4	
	27160-PG9	Pg 9-18	15.2	18	70	20	28	12	9	12	4	
	27160-PG11	Pg 11-18	18.6	18	80	22	36	14	11	14	4	
	27160-PG13,5	Pg 13.5-18	20.4	18	80	22	35	16	12	15	4	
	27160-PG16	Pg 16-18	22.5	18	80	22	33	18	14.5	17	4	
	27160-PG21	Pg 21-16	28.3	16	90	22	25	22	18	21	4	

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

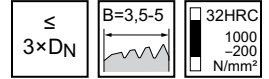
HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P28210-BSW1/8	BSW 1/8-40	3.175	40	56	10	18	3.5	2.7	6	2	
	P28210-BSW3/16	BSW 3/16-24	4.763	24	70	13	25	6	4.9	8	2	
	P28210-BSW1/4	BSW 1/4-20	6.35	20	80	15	30	7	5.5	8	3	
	P28210-BSW5/16	BSW 5/16-18	7.938	18	90	18	35	8	6.2	9	3	
	P28210-BSW3/8	BSW 3/8-16	9.525	16	100	20	39	10	8	11	3	

Parallel shank

DIN 2184-1		Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P28360-BSW7/16	BSW 7/16-14	11.113	14	100	20	76	8	6.2	9	3	
	P28360-BSW1/2	BSW 1/2-12	12.7	12	110	23	83	9	7	10	3	
	P28360-BSW5/8	BSW 5/8-11	15.875	11	110	25	68	12	9	12	3	
	P28360-BSW3/4	BSW 3/4-10	19.05	10	125	30	81	14	11	14	4	
	P28360-BSW7/8	BSW 7/8-9	22.225	9	140	30	93	18	14.5	17	4	
	P28360-BSW1	BSW 1"-8	25.4	8	160	36	113	18	14.5	17	4	

Parallel shank

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

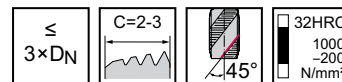
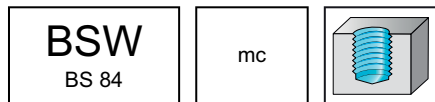
HSS-E machine taps

mm

Paradur® X-pert P

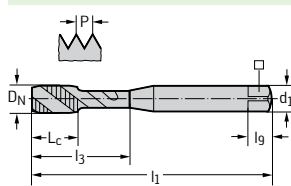


- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1

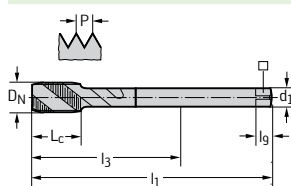


Designation uncoated	D _N	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
P28519-BSW1/8	BSW 1/8	3.175	40	56	6	18	3.5	2.7	6	3
P28519-BSW3/16	BSW 3/16	4.763	24	70	8	25	6	4.9	8	3
P28519-BSW1/4	BSW 1/4	6.35	20	80	10	30	7	5.5	8	3
P28519-BSW5/16	BSW 5/16	7.938	18	90	12	35	8	6.2	9	3
P28519-BSW3/8	BSW 3/8	9.525	16	100	15	39	10	8	11	3

Parallel shank

C1

DIN 2184-1



Designation uncoated	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
P28569-BSW7/16	BSW 7/16	11.113	14	100	15	76	8	6.2	9	3
P28569-BSW1/2	BSW 1/2	12.7	12	110	18	83	9	7	10	3
P28569-BSW5/8	BSW 5/8	15.875	11	110	20	68	12	9	12	4
P28569-BSW3/4	BSW 3/4	19.05	10	125	25	81	14	11	14	4
P28569-BSW7/8	BSW 7/8	22.225	9	140	25	93	18	14.5	17	4
P28569-BSW1	BSW 1"	25.4	8	160	30	113	18	14.5	17	4

Parallel shank

HSS-E trapezoidal taps

mm

TMB



- Left-hand helix
- For long- and short-chipping materials

≤
2×DN

24xP

±5°

28HRC
900
-200
N/mm²

Tr
DIN 103

7H

	P	M	K	N	S	H	O
uncoated	●●		●●	●●			●

PWZ-NORM	Designation uncoated	D _N -P	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	29100-TR8X1,5	Tr 8x1,5	1.5	90	45	67	6	4.9	8	3
	29100-TR10X2	Tr 10x2	2	135	60	112	7	5.5	8	3
	29100-TR10X3	Tr 10x3	3	145	90	122	7	5.5	8	3
	29100-TR12X3	Tr 12x3	3	175	90	151	8	6.2	9	3
	29100-TR14X3	Tr 14x3	3	180	90	152	10	8	11	3
	29100-TR14X4	Tr 14x4	4	215	120	187	10	8	11	3
	29100-TR16X4	Tr 16x4	4	220	120	191	11	9	12	3
	29100-TR18X4	Tr 18x4	4	225	120	183	12	9	12	3
	29100-TR20X4	Tr 20x4	4	230	120	186	14	11	14	3
	29100-TR22X5	Tr 22x5	5	265	150	220	16	12	15	3
	29100-TR24X5	Tr 24x5	5	275	150	228	18	14.5	17	3

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

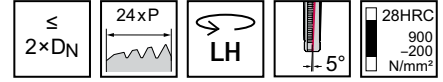
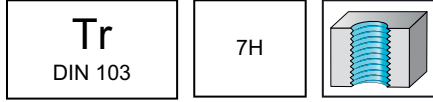
HSS-E trapezoidal taps

mm

TMB



- Right-hand helix
- For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated	●●		●●	●●			●

PWZ-NORM	Designation uncoated	D _N -P	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	29900-TR12X3	Tr 12x3	3	175	90	151	8	6.2	9	3
	29900-TR16X4	Tr 16x4	4	220	120	191	11	9	12	3

Parallel shank

C1

HSS-E machine taps

mm

Prototex® X-pert P



- For threaded inserts / STI / Eg
- For long-chipping materials

≤
3×DN

B=3,5-5

32HRC
1000
-200
N/mm²

EgM
DIN 8140

6H mod

uncoated	P	M	K	N	S	H	O
----------	---	---	---	---	---	---	---

DIN 40435	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P203009-EGM2,5	EGM 2.5	0.45	56	9	18	3.5	2.7	6	3
	P203009-EGM3	EGM 3	0.5	63	12	21	4.5	3.4	6	3
	P203009-EGM4	EGM 4	0.7	70	13	25	6	4.9	8	3
	P203009-EGM5	EGM 5	0.8	80	15	30	6	4.9	8	3
	P203009-EGM6	EGM 6	1	90	18	35	8	6.2	9	3
	P203009-EGM8	EGM 8	1.25	100	20	39	10	8	11	3
	P203009-EGM8	EGM 8	1.25	100	20	39	10	8	11	3

DIN 40435	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P203509-EGM10	EGM 10	1.5	100	21	73	9	7	10	3
	P203509-EGM12	EGM 12	1.75	110	25	81	11	9	12	3
	P203509-EGM16	EGM 16	2	125	30	81	14	11	14	4
	P203509-EGM16	EGM 16	2	125	30	81	14	11	14	4

HSS-E machine taps

mm

Prototex® X-pert M

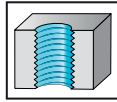


- For threaded inserts / STI / Eg
- For long-chipping materials

$\leq 3 \times D_N$

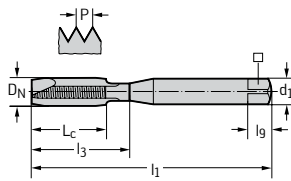
EgM
DIN 8140

6H mod



	P	M	K	N	S	H	O
VAP	●	●●					

DIN 40435



Designation VAP	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N
M203009-EGM2,5	EGM 2.5	0.45	56	9	18	3.5	2.7	6	2
M203009-EGM3	EGM 3	0.5	63	12	21	4.5	3.4	6	2
M203009-EGM4	EGM 4	0.7	70	13	25	6	4.9	8	3
M203009-EGM5	EGM 5	0.8	80	15	30	6	4.9	8	3
M203009-EGM6	EGM 6	1	90	18	35	8	6.2	9	3
M203009-EGM8	EGM 8	1.25	100	20	39	10	8	11	3

Parallel shank

C1

HSS-E PM machine taps

mm

Prototex® TiNi



- For threaded inserts / STI / Eg
- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

EgM
LN 9499

ISO1/4H

uncoated	P	M	K	N	S	H	O
----------	---	---	---	---	---	---	---

~DIN 40435	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	20207-EGM4	EGM 4	0.7	70	16	16	6	4.9	8	3
	20207-EGM5	EGM 5	0.8	80	15	23	6	4.9	8	3
	20207-EGM6	EGM 6	1	90	18	29	8	6.2	9	3
	20207-EGM8	EGM 8	1.25	100	20	33	10	8	11	3

Parallel shank

EGM 4: Without reduced neck after the thread

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

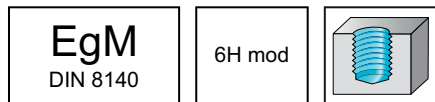
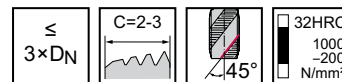
HSS-E machine taps

mm

Paradur® X-pert P

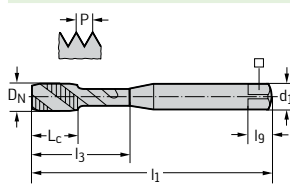


- For threaded inserts / STI / Eg
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 40435

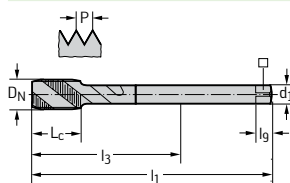


Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
P205099-EGM2,5	EGM 2.5	0.45	56	6	18	3.5	2.7	6	3
P205099-EGM3	EGM 3	0.5	63	7	21	4.5	3.4	6	3
P205099-EGM4	EGM 4	0.7	70	8	25	6	4.9	8	3
P205099-EGM5	EGM 5	0.8	80	10	30	6	4.9	8	3
P205099-EGM6	EGM 6	1	90	12	35	8	6.2	9	3
P205099-EGM8	EGM 8	1.25	100	15	39	10	8	11	3

Parallel shank

C1

DIN 40435



Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
P205599-EGM10	EGM 10	1.5	100	13	73	9	7	10	4
P205599-EGM12	EGM 12	1.75	110	20	81	11	9	12	4
P205599-EGM14	EGM 14	2	110	20	68	12	9	12	4
P205599-EGM16	EGM 16	2	125	25	81	14	11	14	4
P205599-EGM20	EGM 20	2.5	160	25	113	18	14.5	17	4
P205599-EGM24	EGM 24	3	160	30	97	20	16	19	4

Parallel shank

HSS-E machine taps

mm

Paradur® X-pert M



- For threaded inserts / STI / Eg
- For long-chipping materials

≤
2,5×DN

C=2-3

40°

36HRC
1200
-700
N/mm²

EgM
DIN 8140

6H mod

	P	M	K	N	S	H	O
VAP	●	●●	●	●	●	●	●

DIN 40435	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	M205049-EGM2,5	EGM 2.5	0.45	56	6	18	3.5	2.7	6	3
	M205049-EGM3	EGM 3	0.5	63	7	21	4.5	3.4	6	3
	M205049-EGM4	EGM 4	0.7	70	8	25	6	4.9	8	3
	M205049-EGM5	EGM 5	0.8	80	10	30	6	4.9	8	3
	M205049-EGM6	EGM 6	1	90	12	35	8	6.2	9	3
	M205049-EGM8	EGM 8	1.25	100	15	39	10	8	11	3

DIN 40435	Designation VAP	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	M205549-EGM10	EGM 10	1.5	100	13	73	9	7	10	4
	M205549-EGM12	EGM 12	1.75	110	20	81	11	9	12	4
	M205549-EGM14	EGM 14	2	110	20	68	12	9	12	4
	M205549-EGM16	EGM 16	2	125	25	81	14	11	14	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

Paradur® X-pert N



- For threaded inserts / STI / Eg
- For long-chipping materials

EgM
DIN 8140

6H mod

$\leq 3 \times D_N$

C=2-3

35°

14HRC
700
-200
N/mm²

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 40435	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	N205069-EGM2,5	EGM 2.5	0.45	56	6	18	3.5	2.7	6	2
	N205069-EGM3	EGM 3	0.5	63	7	21	4.5	3.4	6	2
	N205069-EGM4	EGM 4	0.7	70	8	25	6	4.9	8	2
	N205069-EGM5	EGM 5	0.8	80	10	30	6	4.9	8	3
	N205069-EGM6	EGM 6	1	90	12	35	8	6.2	9	3
	N205069-EGM8	EGM 8	1.25	100	15	39	10	8	11	3

DIN 40435	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	N205569-EGM10	EGM 10	1.5	100	13	73	9	7	10	3
	N205569-EGM12	EGM 12	1.75	110	20	81	11	9	12	3
	N205569-EGM16	EGM 16	2	125	25	81	14	11	14	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

Paradur® Ni



- For threaded inserts / STI / Eg
- For long-chipping materials

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 25^\circ$

44HRC
1400-700
N/mm²

EgM
LN 9499

ISO1/4H

	P	M	K	N	S	H	O
uncoated	●●		●●	●●	●		

~DIN 40435	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	204089-EGM4	EGM 4	0.7	70	16	16	6	4.9	8	3
	204089-EGM5	EGM 5	0.8	80	15	23	6	4.9	8	3
	204089-EGM6	EGM 6	1	90	18	29	8	6.2	9	3
	204089-EGM8	EGM 8	1.25	100	20	33.5	10	8	11	4

Parallel shank

EGM 4: Without reduced neck after the thread

C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Paradur® Ti



- For threaded inserts / STI / Eg
- Recommended with oil
- For long-chipping materials

≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

EgM
LN 9499

ISO1/4H

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 40435	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	204069-EGM4	EGM 4	0.7	70	16	16	6	4.9	8	3
	204069-EGM5	EGM 5	0.8	80	15	23	6	4.9	8	3
	204069-EGM6	EGM 6	1	90	18	29	8	6.2	9	3
	204069-EGM8	EGM 8	1.25	100	20	33.5	10	8	11	3

Parallel shank

EGM 4: Without reduced neck after the thread

C1

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

mm

Paradur® X-pert P



- For threaded inserts / STI / Eg
- For long-chipping materials

≤
3×DN

C=2-3

45°

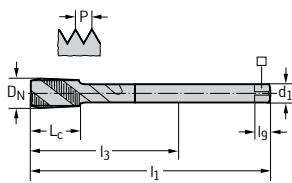
32HRC
1000
-200
N/mm²

EgMF
DIN 8140

6H mod

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 40435



Parallel shank

Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
P215599-EGM8X1	EGMF 8	1	90	12	67	7	5.5	8	3
P215599-EGM10X1	EGMF 10	1	100	13	73	9	7	10	3
P215599-EGM12X1,5	EGMF 12	1.5	100	15	71	11	9	12	4
P215599-EGM14X1,5	EGMF 14	1.5	100	15	58	12	9	12	4
P215599-EGM16X1,5	EGMF 16	1.5	110	17	66	14	11	14	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Prototex® X-pert P



- For long-chipping materials
- For threading inserts / STI / Eg

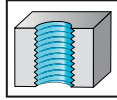
\leq
3×DN

B=3,5-5

32HRC
 1000
 -200
 N/mm²

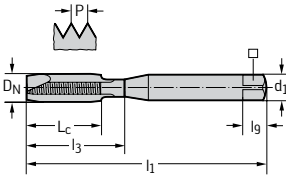
EgUNC
NASM 33537

3B



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1											
Designation uncoated	DN	DN mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	
P223009-EGUNC6	EGUNC #6	4.536	32	70	13	25	6	4.9	8	3	
P223009-EGUNC8	EGUNC #8	5.197	32	80	15	30	6	4.9	8	3	
P223009-EGUNC10	EGUNC #10	6.201	24	80	15	30	7	5.5	8	3	
P223009-EGUNC1/4	EGUNC 1/4	8	20	90	18	35	8	6.2	9	3	



Parallel shank

C1

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

HSS-E PM machine taps

mm

Prototex® TiNi



- Recommended with oil
- For long-chipping materials
- For threading inserts / STI / Eg

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

EgUNC
NASM 33537

3B

	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

DIN 2184-1	Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	222079-EGUNC4	EGUNC #4	3.67	40	63	13	13	4.5	3.4	6	3
	222079-EGUNC6	EGUNC #6	4.536	32	70	16	16	6	4.9	8	3
	222079-EGUNC8	EGUNC #8	5.197	32	80	15	23	6	4.9	8	3

Parallel shank

≤ EGUNC 6: Without reduced neck after the thread

C1

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps
TD117 Advance
Thread-tec™ Omni



- For threaded inserts / STI / Eg
- Universal taps

EgM
DIN 8140

6H mod

$\leq 2,5 \times D_N$

$C=2-3$

40°

38HRC

1250
-500
N/mm²

WY80FC (VAP)

DIN 40435										WY80FC
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	N		
★ TD117-EGM10-L0-	EGM 10	1.5	100	13	38	9	7	4		✘
★ TD117-EGM12-L0-	EGM 12	1.75	110	20	44	11	9	4		✘
★ TD117-EGM16-L0-	EGM 16	2	125	25	55	14	11	4		✘

Parallel shank

Ordering example for the grade WY80FC: TD117-EGM10-L0-WY80FC

C1

WALTER
SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

●● Primary application ● Other application

HSS-E machine taps

mm

Paradur® X-pert P



- For threaded inserts / STI / Eg
- For long-chipping materials

≤
3×DN

C=2-3

45°

32HRC
1000
-200
N/mm²

EgUNC
NASM 33537

3B

	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1	Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	P225099-EGUNC6	EGUNC #6	4.536	32	70	8	25	6	4.9	8	3
	P225099-EGUNC8	EGUNC #8	5.197	32	80	10	30	6	4.9	8	3
	P225099-EGUNC10	EGUNC #10	6.201	24	80	10	30	7	5.5	8	3
	P225099-EGUNC1/4	EGUNC 1/4	8	20	90	12	35	8	6.2	9	3

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

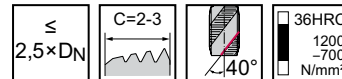
HSS-E machine taps

mm

Paradur® X-pert M

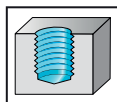


- For threaded inserts / STI / Eg
- For long-chipping materials



EgUNC
NASM 33537

3B



	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1		Designation VAP	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
	M225049-EGUNC4	EGUNC #4	3.67	40	63	7	21	4.5	3.4	6	3	
	M225049-EGUNC6	EGUNC #6	4.536	32	70	8	25	6	4.9	8	3	
	M225049-EGUNC8	EGUNC #8	5.197	32	80	10	30	6	4.9	8	3	
	M225049-EGUNC10	EGUNC #10	6.201	24	80	10	30	7	5.5	8	3	
	M225049-EGUNC1/4	EGUNC 1/4	8	20	90	12	35	8	6.2	9	3	

Parallel shank

C1

DIN 2184-1		Designation VAP	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
	M225549-EGUNC5/16	EGUNC 5/16	9.771	18	100	15	77	7	5.5	8	3	
	M225549-EGUNC3/8	EGUNC 3/8	11.587	16	100	13	73	9	7	10	3	
	M225549-EGUNC1/2	EGUNC 1/2	15.238	13	110	20	68	12	9	12	4	

Parallel shank

HSS-E machine taps

mm

Paradur® X-pert N



- For threaded inserts / STI / Eg
- For long-chipping materials

≤
3×DN

C=2-3

35°

14HRC
700
-200
N/mm²

EgUNC
NASM 33537

3B

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 2184-1	Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	N225069-EGUNC6	EGUNC #6	4.536	32	70	8	25	6	4.9	8	2
	N225069-EGUNC8	EGUNC #8	5.197	32	80	10	30	6	4.9	8	2
	N225069-EGUNC10	EGUNC #10	6.201	24	80	10	30	7	5.5	8	2
	N225069-EGUNC1/4	EGUNC 1/4	8	20	90	12	35	8	6.2	9	2

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

mm

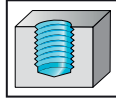
Paradur® Ti



- For threaded inserts / STI / Eg
- Recommended with oil
- For long-chipping materials

EgUNC
NASM 33537

3B



≤
2×DN

C=2-3

15°

44HRC
1400
-700
N/mm²

	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1	Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
	224069-EGUNC4	EGUNC #4	3.67	40	63	13	13	4.5	3.4	6	3
	224069-EGUNC6	EGUNC #6	4.536	32	70	16	16	6	4.9	8	3
	224069-EGUNC8	EGUNC #8	5.197	32	80	15	23	6	4.9	8	3

Parallel shank

≤ EGUNC 6: Without reduced neck after the thread

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

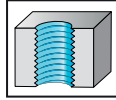
Prototex® X-pert P



- For threaded inserts / STI / Eg
- For long-chipping materials

EgUNF
NASM 33537

3B



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1		Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P233009-EGUNF6	EGUNF #6	4.33	40	70	13	25	6	4.9	8	3	
	P233009-EGUNF8	EGUNF #8	5.083	36	80	15	30	6	4.9	8	3	
	P233009-EGUNF10	EGUNF #10	5.857	32	80	15	30	6	4.9	8	3	
	P233009-EGUNF1/4	EGUNF 1/4	7.528	28	90	18	35	8	6.2	9	3	

Parallel shank

DIN 2184-1		Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	P233509-EGUNF5/16	EGUNF 5/16	9.313	24	90	20	67	7	5.5	8	3	
	P233509-EGUNF3/8	EGUNF 3/8	10.9	24	90	20	66	8	6.2	9	3	
	P233509-EGUNF7/16	EGUNF 7/16	12.763	20	100	21	73	9	7	10	4	
	P233509-EGUNF1/2	EGUNF 1/2	14.35	20	100	21	71	11	9	12	4	

Parallel shank

C1

HSS-E machine taps

mm

Prototex® X-pert M

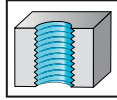


- For threaded inserts / STI / Eg
- For long-chipping materials

$\leq 3 \times D_N$

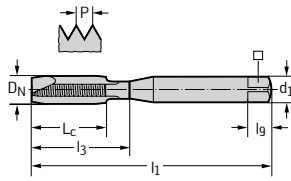
EgUNF
NASM 33537

3B



	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1



Designation VAP	D_N	D_N mm	Thread per Inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
M233009-EGUNF8	EGUNF #8	5.083	36	80	15	30	6	4.9	8	3
M233009-EGUNF10	EGUNF #10	5.857	32	80	15	30	6	4.9	8	3
M233009-EGUNF1/4	EGUNF 1/4	7.528	28	90	18	35	8	6.2	9	3

Parallel shank

C1

WALTER SELECT

 ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

mm

Prototex® TiNi



- For threaded inserts / STI / Eg
- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3,5-5

44HRC
1400
-700
N/mm²

EgUNF
NASM 33537

3B

	P	M	K	N	S	H	O
uncoated	●●	●●	●●	●●	●●	●●	●●

~DIN 2184-1	Designation uncoated	DN	DN mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
	232079-EGUNF10	EGUNF #10	5.857	32	80	15	23	6	4.9	8	3
	232079-EGUNF1/4	EGUNF 1/4	7.528	28	90	18	29.5	8	6.2	9	3
	232079-EGUNF5/16	EGUNF 5/16	9.313	24	100	20	33.5	10	8	11	3

Parallel shank

DIN 2184-1	Designation uncoated	DN	DN mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N
	232579-EGUNF3/8	EGUNF 3/8	10.9	24	100	20	76	8	6.2	9	3

Parallel shank

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

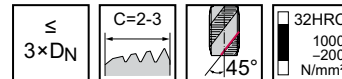
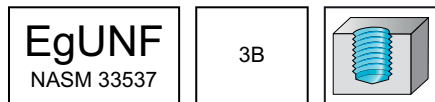
HSS-E machine taps

mm

Paradur® X-pert P



- For threaded inserts / STI / Eg
- For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●●			●			●

DIN 2184-1		Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	P235099-EGUNF6	EGUNF #6	4.33	40	70	8	25	6	4.9	8	3	
	P235099-EGUNF8	EGUNF #8	5.083	36	80	10	30	6	4.9	8	3	
	P235099-EGUNF10	EGUNF #10	5.857	32	80	10	30	6	4.9	8	3	
	P235099-EGUNF1/4	EGUNF 1/4	7.528	28	90	12	35	8	6.2	9	3	

Parallel shank

C1

DIN 2184-1		Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	P235599-EGUNF5/16	EGUNF 5/16	9.313	24	90	12	7	5.5	8	3	
	P235599-EGUNF3/8	EGUNF 3/8	10.9	24	90	15	8	6.2	9	3	
	P235599-EGUNF7/16	EGUNF 7/16	12.763	20	100	13	9	7	10	4	
	P235599-EGUNF1/2	EGUNF 1/2	14.35	20	100	15	11	9	12	4	

Parallel shank

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

Paradur® X-pert M



- For threaded inserts / STI / Eg
- For long-chipping materials

$\leq 2,5 \times D_N$

$C=2-3$

$\angle 40^\circ$

36HRC
 1200
 -700
 N/mm²

EgUNF
 NASM 33537

3B

	P	M	K	N	S	H	O
VAP	●	●●					

DIN 2184-1	Designation VAP	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	M235049-EGUNF10	EGUNF #10	5.857	32	80	10	30	6	4.9	8	3
	M235049-EGUNF1/4	EGUNF 1/4	7.528	28	90	12	35	8	6.2	9	3

C1

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

mm

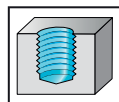
Paradur® X-pert N



- For threaded inserts / STI / Eg
- For long-chipping materials

EgUNF
NASM 33537

3B



≤
3×DN

C=2-3

14HRC
700
-200
N/mm²

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN 2184-1		Designation	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	uncoated	N235069-EGUNF10	EGUNF #10	5.857	32	80	10	30	6	4.9	8	2
		N235069-EGUNF1/4	EGUNF 1/4	7.528	28	90	12	35	8	6.2	9	3

Parallel shank

C1

**WALTER
SELECT**

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

HSS-E PM machine taps

mm

Paradur® Ni



- For threaded inserts / STI / Eg
- For long-chipping materials

$\leq 1,5 \times D_N$

$C=2-3$

$\angle 25^\circ$

44HRC
 1400
 -700
 N/mm²

EgUNF
 NASM 33537

3B

	P	M	K	N	S	H	O
uncoated	●●		●●	●●	●		

~DIN 2184-1	Designation uncoated	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
<p>Parallel shank</p>	234079-EGUNF10	EGUNF #10	5.857	32	80	15	23	6	4.9	8	3
	234079-EGUNF1/4	EGUNF 1/4	7.528	28	90	18	29.5	8	6.2	9	3
	234079-EGUNF5/16	EGUNF 5/16	9.313	24	100	20	33.5	10	8	11	4

C1

WALTER
SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️

●● Primary application ● Other application
machining conditions

HSS-E PM machine taps

mm

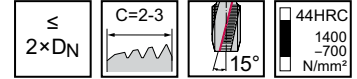
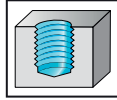
Paradur® Ti



- For threaded inserts / STI / Eg
- Recommended with oil
- For long-chipping materials

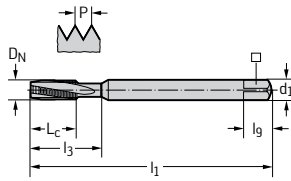
EgUNF
NASM 33537

3B



	P	M	K	N	S	H	O
uncoated	●●			●	●●		

~DIN 2184-1

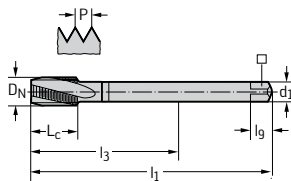


Parallel shank

Designation uncoated	D_N	D_N mm	Thread per Inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
234069-EGUNF10	EGUNF #10	5.857	32	80	15	23	6	4.9	8	3
234069-EGUNF1/4	EGUNF 1/4	7.528	28	90	18	29.5	8	6.2	9	3
234069-EGUNF5/16	EGUNF 5/16	9.313	24	100	20	33.5	10	8	11	3

C1

DIN 2184-1



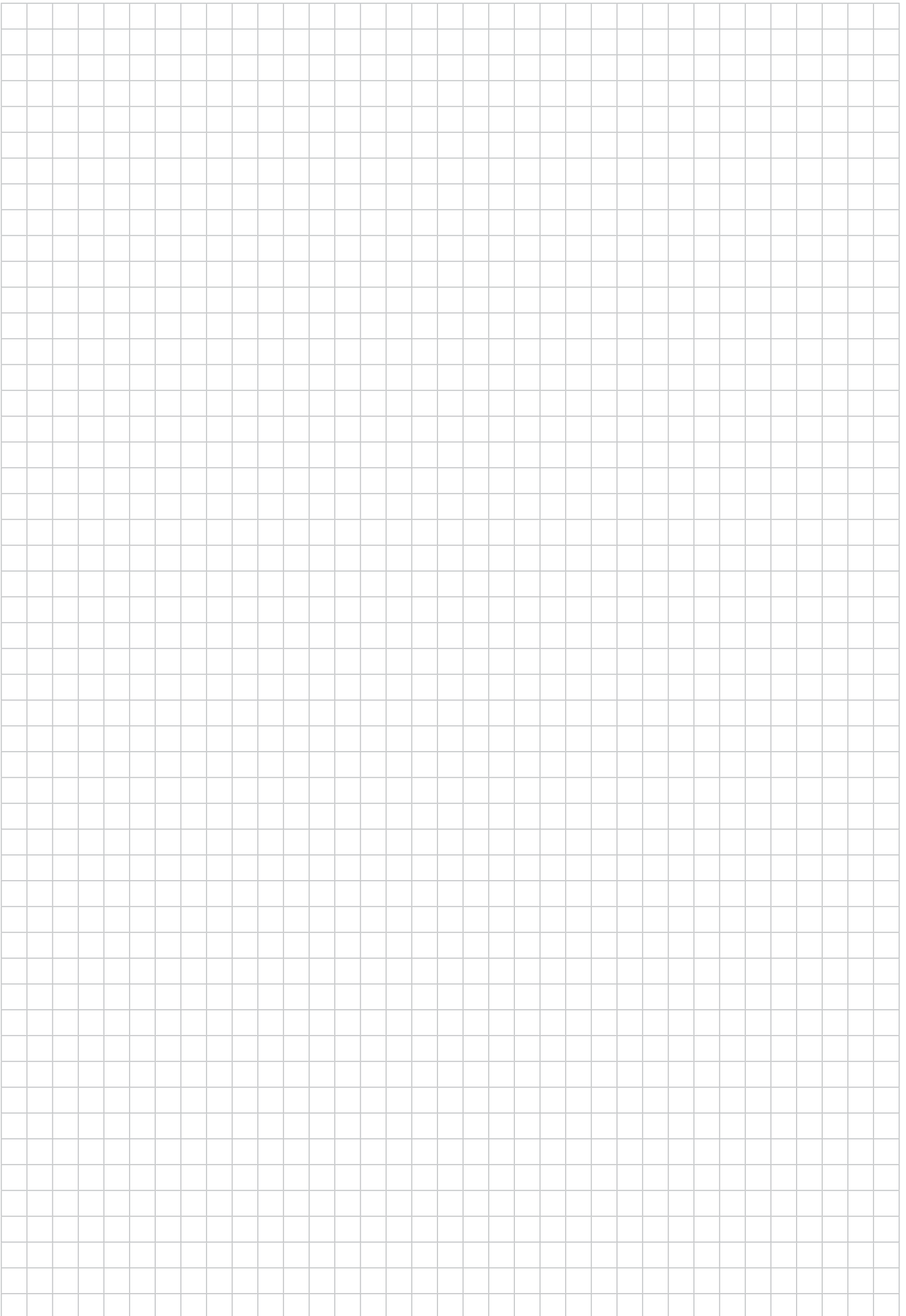
Parallel shank

Designation uncoated	D_N	D_N mm	Thread per Inch	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N
234569-EGUNF3/8	EGUNF 3/8	10.9	24	100	20	76	8	6.2	9	4

WALTER
SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application



C1

Solid carbide taps

Machining					
Thread depth	2 x D _N	2 x D _N	2 x D _N	3 x D _N	1.5 x D _N



Designation	Prototex® HSC	TC388 Supreme	TC389 Supreme	Paradur® HS	Paradur® N
Thread type					
M	✓	✓	✓	✓	✓
MF	✓			✓	
UNC / UNF / UN-8				✓	
G / Rc / Rp		✓			
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
For threaded inserts / STI / Eg					
Tolerance	6HX	6HX / NORMAL	6HX	2B / 6H	6H
Coolant supply	Precision cooling	External	External	External	External
Chamfer form	B	C	D	C	C
Coating / grade	TICN	WJ30TU	WE10TU	TICN / uncoated	TICN / uncoated
Cutting tool material	VHM	VHM	VHM	VHM	VHM
P Steel	●●				●●
M Stainless steel					
K Cast iron	●●			●	●●
N NF metals				●●	●●
S Materials with difficult cutting properties		●	●	●	
H Hard materials		●●	●●	●	
O Other				●●	●
Page in catalog	C 308	C 316	C 317	C 314	C 310
QR code					
www.walter-tools.com/woc/	prototex-hsc	TC388	TC389	paradur-hs	paradur-n

Solid carbide taps

Machining					
-----------	--	--	--	--	--

Thread depth	2 x D _N	3 x D _N	3 x D _N	3.5 x D _N	3.5 x D _N
--------------	--------------------	--------------------	--------------------	----------------------	----------------------



Designation	Paradur® HSC	Paradur® Engine	Paradur® HS	Paradur® GG	Paradur® N
-------------	--------------	-----------------	-------------	-------------	------------

Thread type					
M	✓	✓	✓	✓	✓
MF	✓	✓		✓	
UNC / UNF / UN-8					
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
For threaded inserts / STI / Eg					

Tolerance	6HX	6HX	6H	6HX	6H
-----------	-----	-----	----	-----	----

Coolant supply	axial	axial	axial	axial	axial
----------------	-------	-------	-------	-------	-------

Chamfer form	C	E	C	C	C
--------------	---	---	---	---	---

Coating / grade	TICN	uncoated	TICN	TAFT / uncoated	uncoated
-----------------	------	----------	------	-----------------	----------

Cutting tool material	VHM	VHM	VHM	VHM	VHM
-----------------------	-----	-----	-----	-----	-----

P Steel	●●				
M Stainless steel					
K Cast iron	●●	●●	●	●●	●●
N NF metals		●●	●●	●	●●
S Materials with difficult cutting properties			●		
H Hard materials	●●		●		
O Other			●●	●	●

Page in catalog	C 309	C 313	C 315	C 312	C 311
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QR code					
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www.walter-tools.com/woc/	paradur-hsc	paradur-engine	paradur-hs	paradur-gg	paradur-n
--	-------------	----------------	------------	------------	-----------

C1

Solid carbide machine taps

mm

Prototex® HSC



- For long-chipping materials
- Cooling grooves on the shank

\leq
 $2 \times D_N$

B=3,5-5

44HRC
 1400
 -850
 N/mm²

M
 DIN 13

6HX

TICN

P

M

K

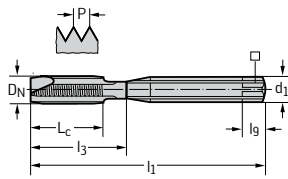
N

S

H

O

DIN 371

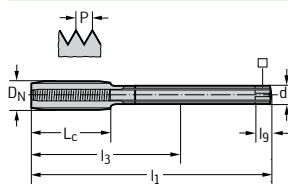


Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 mm	N
8021006-M6	M 6	1	80	19	30	6	4.9	8	3
8021006-M8	M 8	1.25	90	22	35	8	6.2	9	4
8021006-M10	M 10	1.5	100	24	39	10	8	11	4

C1

DIN 376



Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 mm	N
8026006-M12	M 12	1.75	110	23	83	9	7	10	5

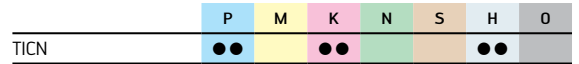
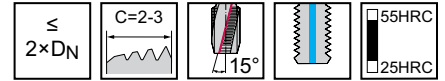
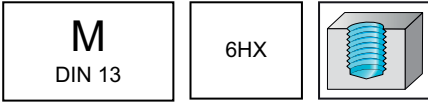
Solid carbide machine taps

mm

Paradur® HSC



– For long- and short-chipping materials



DIN 371	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	8041056-M8	M 8	1.25	90	20	35	8	6.2	9	3
	8041056-M10	M 10	1.5	100	25	39	10	8	11	3

Parallel shank

DIN 376	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

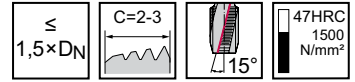
Solid carbide machine taps

mm

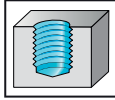
Paradur® N



- For long- and short-chipping materials



M
DIN 13



	P	M	K	N	S	H	O
TICN	●●		●●	●●			●
uncoated			●●	●●			●

~DIN 371	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N
	TICN	uncoated									
	8041006-M3	80410-M3	M 3	0.5	56	10	10	3.5	2.7	6	3
	8041006-M4	80410-M4	M 4	0.7	63	13	13	4.5	3.4	6	3
	8041006-M5	80410-M5	M 5	0.8	70	16	16	6	4.9	8	3
	8041006-M6	80410-M6	M 6	1	80	19	30	6	4.9	8	3
	8041006-M8	80410-M8	M 8	1.25	90	22	35	8	6.2	9	3
		80410-M10	M 10	1.5	100	24	39	10	8	11	3
	Parallel shank										

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

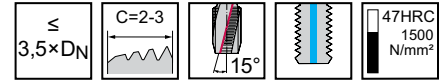
Solid carbide machine taps

mm

Paradur® N



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●●	●●			●

DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	804101-M5	M 5	0.8	70	16	16	6	4.9	8	3
	804101-M6	M 6	1	80	19	30	6	4.9	8	3
	804101-M8	M 8	1.25	90	22	35	8	6.2	9	3

M 5: Without reduced neck after the thread

DIN 376	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	804601-M12	M 12	1.75	110	23	83	9	7	10	3

C1

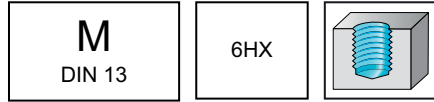
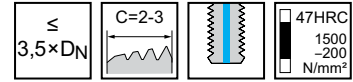
Solid carbide machine taps

mm

Paradur® GG



- For short-chipping materials



	P	M	K	N	S	H	O
TAFT			●●	●			●
uncoated			●●	●			●

DIN 371	Designation	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l ₉ mm	N
	TAFT	uncoated									
	8031417-M5	803141-M5	M 5	0.8	70	16	16	6	4.9	8	4
	8031417-M6		M 6	1	80	19	30	6	4.9	8	4
	8031417-M8	803141-M8	M 8	1.25	90	22	35	8	6.2	9	4
	8031417-M10	803141-M10	M 10	1.5	100	24	39	10	8	11	4

Parallel shank

M 5: Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide machine taps

mm

Paradur® Engine



– Suitable coating available per requirements

M
DIN 13

6HX

$\leq 3 \times D_N$

$E=1,5-2$

L
 l_1

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated			●●	●●			

~DIN 371 L	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	8031310-M6	M 6	1	80	15	30	6	4.9	8	3
	8031310-M7	M 7	1	100	15	30	7	5.5	8	3
	8031310-M8	M 8	1.25	120	18	35	8	6.2	9	3
	8031310-M10	M 10	1.5	140	20	39	10	8	11	3

Parallel shank

~DIN 376 L	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	8036310-M12	M 12	1.75	140	23	113	9	7	10	4

Parallel shank

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C1

Solid carbide machine taps

mm

Paradur® HS



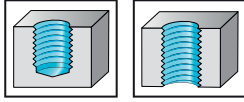
- For short-chipping materials

\leq
 $3 \times D_N$

$C=2-3$

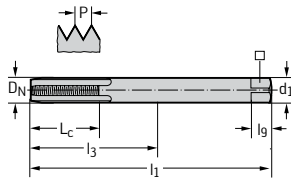
55HRC

M
DIN 13



	P	M	K	N	S	H	O
TICN			●	●●	●	●	●●
uncoated			●	●●	●	●	●●

~DIN 371



Parallel shank

Designation TICN	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N
8031106-M3	80311-M3	M 3	0.5	56	10	35	3.5	2.7	6	3
8031106-M4	80311-M4	M 4	0.7	63	13	42	4.5	3.4	6	3
8031106-M5	80311-M5	M 5	0.8	70	16	47	6	4.9	8	3
8031106-M6	80311-M6	M 6	1	80	20	57	6	4.9	8	3
8031106-M8	80311-M8	M 8	1.25	90	25	66	8	6.2	9	3
8031106-M10		M 10	1.5	100	30	72	10	8	11	3
8031106-M12		M 12	1.75	110	36	68	12	9	12	3

Without reduced neck after the thread

C1

WALTER
SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

New addition to the product range = 🌟 / ★

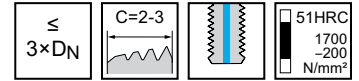
Solid carbide machine taps

mm

Paradur® HS



– For short-chipping materials



	P	M	K	N	S	H	O
TICN			●	●●	●	●	●●

~DIN 371	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	8031116-M5	M 5	0.8	70	16	16	6	4.9	8	3
	8031116-M6	M 6	1	80	19	30	6	4.9	8	3
	8031116-M7	M 7	1	80	19	30	7	5.5	8	3
	8031116-M8	M 8	1.25	90	22	35	8	6.2	9	3
	8031116-M10	M 10	1.5	100	24	39	10	8	11	3

Parallel shank

M 5: Without reduced neck after the thread

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide machine taps

TC388 Supreme



- Taps for hardened materials
- Drill core hole at upper tolerance

≤
2×DN

C=2-3

63HRC
50HRC

M
DIN 13

6HX

WJ30TU (AITiSiN)	P	M	K	N	S	H	O
------------------	---	---	---	---	---	---	---

~DIN 371											WJ30TU
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l ₉ mm	N		
TC388-M3-C0-	M 3	0.5	56	8	35	3.5	2.7	6	4	☺	
TC388-M4-C0-	M 4	0.7	63	11	42	4.5	3.4	6	5	☺	
TC388-M5-C0-	M 5	0.8	70	13.5	47	6	4.9	8	5	☺	
TC388-M6-C0-	M 6	1	80	16.5	57	6	4.9	8	5	☺	
TC388-M8-C0-	M 8	1.25	90	21.5	66	8	6.2	9	5	☺	
TC388-M10-C0-	M 10	1.5	100	27	72	10	8	11	5	☺	
TC388-M12-C0-	M 12	1.75	110	32	68	12	9	12	6	☺	
TC388-M16-C0-	M 16	2	110	41	65	16	12	15	6	☺	

Without reduced neck after the thread
 Ordering example for the grade WJ30TU: TC388-M10-C0-WJ30TU

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

Solid carbide machine taps

TC389 Supreme



- Taps for hardened materials
- Drill core hole at upper tolerance

$\leq 2 \times D_N$

$D=3,5-5$

☐ 65HRC
☐ 55HRC

M
DIN 13

6HX

	P	M	K	N	S	H	O
WE10TU (ALTiSiN)					● ●	● ●	

~DIN 371	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	☐ mm	l_g mm	N	WE10TU
<p>Parallel shank</p>	TC389-M3-CD-	M 3	0.5	56	9	35	3.5	2.7	6	4	☺
	TC389-M4-CD-	M 4	0.7	63	12	42	4.5	3.4	6	5	☺
	TC389-M5-CD-	M 5	0.8	70	14.5	47	6	4.9	8	5	☺
	TC389-M6-CD-	M 6	1	80	18	57	6	4.9	8	5	☺
	TC389-M8-CD-	M 8	1.25	90	23.5	66	8	6.2	9	5	☺
	TC389-M10-CD-	M 10	1.5	100	29	72	10	8	11	5	☺
	TC389-M12-CD-	M 12	1.75	110	34.5	68	12	9	12	6	☺
	TC389-M16-CD-	M 16	2	110	44	65	16	12	15	6	☺

Without reduced neck after the thread
 Ordering example for the grade WE10TU: TC389-M10-CD-WE10TU

C1

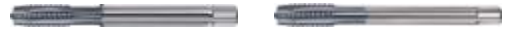
WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions



Solid carbide machine taps

mm

Prototex® HSC

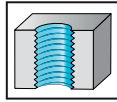


- For long-chipping materials
- Cooling grooves on the shank

$\leq 2 \times D_N$



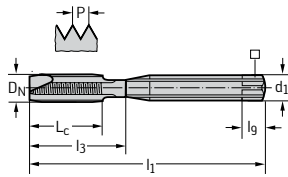
MF
DIN 13

6HX



TICN	P	M	K	N	S	H	O
	●●		●●				

DIN 371

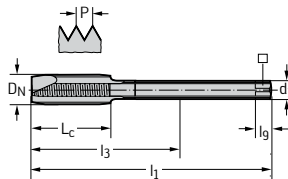


Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 mm	N
8121006-M8X1	MF 8	1	90	22	35	8	6.2	9	4
8121006-M10X1	MF 10	1	90	24	39	10	8	11	4

C1

DIN 374



Parallel shank

Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	\square mm	l_9 mm	N
8126006-M12X1,5	MF 12	1.5	100	21	73	9	7	10	5
8126006-M14X1,5	MF 14	1.5	100	21	71	11	9	12	5
8126006-M16X1,5	MF 16	1.5	100	21	58	12	9	12	5

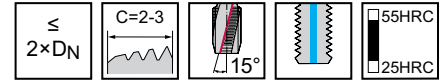
Solid carbide machine taps

mm

Paradur® HSC



– For long-chipping materials



	P	M	K	N	S	H	O
TICN	●●		●●			●●	

~DIN 371	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	8141056-M6X0,75	MF 6	0.75	80	15	30	6	4.9	8	3
	8141056-M8X1	MF 8	1	90	20	35	8	6.2	9	3
	8141056-M10X1	MF 10	1	90	25	39	10	8	11	3

Parallel shank

DIN 374	Designation TICN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	8146056-M12X1	MF 12	1	100	20	73	9	7	10	3
	8146056-M14X1,5	MF 14	1.5	100	21	71	11	9	12	4
	8146056-M16X1,5	MF 16	1.5	100	21	58	12	9	12	4

Parallel shank

C1

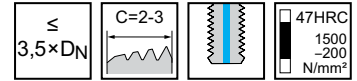
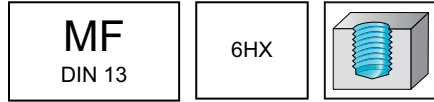
Solid carbide machine taps

mm

Paradur® GG



- For short-chipping materials



	P	M	K	N	S	H	O
TAFT			●●	●			●

DIN 374		Designation TAFT	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_9 mm	N
		8136417-M8X1	MF 8	1	90	12	67	6	4.9	8	4
		8136417-M10X1	MF 10	1	90	14	67	7	5.5	8	4
		8136417-M12X1,5	MF 12	1.5	100	20	73	9	7	10	4

Parallel shank

C1

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide machine taps

mm

Paradur® Engine



- Suitable coating available per requirements
- For short-chipping materials

MF
DIN 13

6HX

$\leq 3 \times D_N$

$E=1,5-2$

L
-l₁-

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
uncoated			●●	●●			

~DIN 374 L	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l ₉ mm	N
<p>Parallel shank</p>	8136310-M10X1	MF 10	1	140	20	117	7	5.5	8	4
	8136310-M12X1,25	MF 12	1.25	140	21	113	9	7	10	4
	8136310-M12X1,5	MF 12	1.5	140	21	113	9	7	10	4
	8136310-M16X1,5	MF 16	1.5	140	21	98	12	9	12	4

C1

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

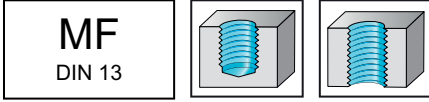
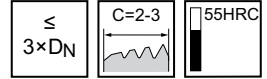
Solid carbide machine taps

mm

Paradur® HS



- For short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●	●	●	●●

~DIN 371	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	81311-M8X1	MF 8	1	90	25	66	8	6.2	9	4
	81311-M10X1	MF 10	1	90	30	62	10	8	11	4

Parallel shank

Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

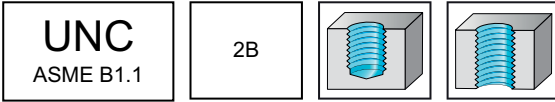
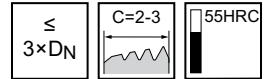
Solid carbide machine taps

mm

Paradur® HS



– For short-chipping materials



TICN	P	M	K	N	S	H	O
			●	●●	●	●	●●

~DIN 2184-1		Designation TICN	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
		8231106-UNC10	UNC #10	4.826	24	70	16	16	6	4.9	8	3
		8231106-UNC1/4	UNC 1/4	6.35	20	80	20	20	7	5.5	8	3
		8231106-UNC5/16	UNC 5/16	7.938	18	90	25	25	8	6.2	9	3
		8231106-UNC3/8	UNC 3/8	9.525	16	100	30	30	10	8	11	3

Parallel shank

Without reduced neck after the thread

C1

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

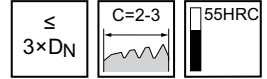
Solid carbide machine taps

mm

Paradur® HS

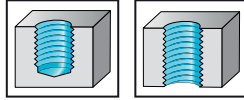


- For short-chipping materials



UNF
ASME B1.1

2B



	P	M	K	N	S	H	O
TICN			●●	●●	●	●	●●

~DIN 2184-1	Designation	D _N	D _N mm	Thread per Inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	TICN										
	8331106-UNF10	UNF #10	4.826	32	70	16	47	6	4.9	8	3
	8331106-UNF1/4	UNF 1/4	6.35	28	80	20	57	7	5.5	8	3
	8331106-UNF3/8	UNF 3/8	9.525	24	90	30	62	10	8	11	3

Parallel shank

Without reduced neck after the thread

C1

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide machine taps

TC388 Supreme



- Taps for hardened materials
- Drill core hole at upper tolerance

$\leq 2 \times D_N$

□ 63HRC
□ 50HRC

G (BSP)
 DIN EN ISO 228

	P	M	K	N	S	H	O
WJ30TU (AITiSiN)					●	●●	

~DIN 371	Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N	WJ30TU
	TC388-G1/8-C0-	G 1/8-28	9.728	28	90	23.5	62	10	8	11	5	☺
	TC388-G1/4-C0-	G 1/4-19	13.157	19	100	32.5	56	14	11	14	6	☺

Parallel shank

Without reduced neck after the thread
 Ordering example for the grade WJ30TU: TC388-G1/4-C0-WJ30TU

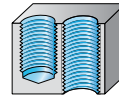
C1

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

HSS-E and solid carbide thread formers

Machining



Thread depth

2 x D_N

3 x D_N

3 x D_N

3 x D_N

3 x D_N



Designation

Protodyn® Eco LM

Protodyn® C

TC410 Advance

TC420 Supreme

TC430 Supreme

Thread type

M



MF

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

Tolerance

6HX

6GX / 6HX

6GX / 6HX / 7GX

6GX / 6HX

6HX

Coolant supply

External

External

External

External

External

Chamfer form

C

C

C / D

C

C

Coating / grade

CRN

NiD / uncoated

WY80AD

WW60AD / WW60BA

WW60EL

Cutting tool material

HSS-E

HSS-E

HSS-E

HSS-E-PM

HSS-E-PM

P Steel



M Stainless steel



K Cast iron



N NF metals



S Materials with difficult cutting properties



H Hard materials

O Other

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C 330

C 338

C 351

QR code



www.walter-tools.com/woc/

protodyn-eco-lm

protodyn-c

TC410

TC420

TC430

HSS-E and solid carbide thread formers

Machining					
-----------	--	--	--	--	--

Thread depth	3 x D _N	3.5 x D _N	3.5 x D _N	3.5 x D _N	3.5 x D _N
--------------	--------------------	----------------------	----------------------	----------------------	----------------------



Designation	TC470 Supreme	Protodyn [®] S Synchrospeed	Protodyn [®] SC	Protodyn [®] SF	TC410 Advance
-------------	---------------	--------------------------------------	--------------------------	--------------------------	---------------

Thread type					
M	✓	✓	✓	✓	✓
MF		✓		✓	✓
UNC / UNF / UN-8					✓
G / Rc / Rp				✓	✓
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert					

Tolerance	6HX	6HX	6GX / 6HX	6HX / NORMAL	2BX / 6GX / 6HX / 7GX / NORMAL
-----------	-----	-----	-----------	--------------	--------------------------------

Coolant supply	External	External / radial	External	External	External
----------------	----------	-------------------	----------	----------	----------

Chamfer form	C	C	C	C	C
--------------	---	---	---	---	---

Coating / grade	WG20EL	TICN / TIN	NiD / uncoated	TICN	WY80AD
-----------------	--------	------------	----------------	------	--------

Cutting tool material	VHM	HSS-E	HSS-E	HSS-E	HSS-E
-----------------------	-----	-------	-------	-------	-------

P Steel	●●	●●	●	●●	●●
M Stainless steel		●●		●●	●●
K Cast iron	●				●
N NF metals	●	●●	●	●●	●●
S Materials with difficult cutting properties		●		●	●
H Hard materials					
O Other					

Page in catalog	C 365	C 349	C 362	C 364	C 335
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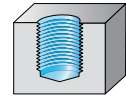
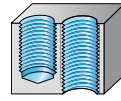
QR code					
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www.walter-tools.com/woc/	TC470	protodyn-s-synchrospeed	protodyn-sc	protodyn-sf	TC410
---------------------------	-------	-------------------------	-------------	-------------	-------

C2

HSS-E and solid carbide thread formers

Machining



Thread depth

 $3.5 \times D_N$
 $3.5 \times D_N$
 $3.5 \times D_N$
 $3.5 \times D_N$
 $3.5 \times D_N$


Designation

TC420 Supreme

TC430 Supreme

TC440 Supreme

TC470 Supreme

TC410 Advance

Thread type

M

✓

✓

✓

✓

MF

✓

✓

✓

✓

✓

UNC / UNF / UN-8

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

Tolerance

6GX / 6HX

6GX / 6HX

6HX

6HX

6GX

Coolant supply

External / radial

External / radial

External / radial

External / radial

External

Chamfer form

C

C

C

C

E

Coating / grade

WW60AD / WW60BA

WW60AD / WW60EL

WY80AD

WG20EL

WY80AD

Cutting tool material

HSS-E-PM

HSS-E-PM

HSS-E

VHM

HSS-E

P Steel

●●

●●

●

●●

●●

M Stainless steel

●●

●

●●

●

●

K Cast iron

●

●

●●

●

●

N NF metals

●●

●

●

●

●●

S Materials with difficult cutting properties

●

●

●

●

●

H Hard materials

O Other

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QR code


www.walter-tools.com/woc/

TC420

TC430

TC440

TC470

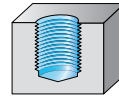
TC410

WALTER SELECT

●● Primary application ● Other application

HSS-E and solid carbide thread formers

Machining



Thread depth	3.5 x D _N	3.5 x D _N	3.5 x D _N	3.5 x D _N
--------------	----------------------	----------------------	----------------------	----------------------



Designation	TC420 Supreme	TC430 Supreme	TC440 Supreme	TC470 Supreme
Thread type				
M	✓	✓	✓	✓
MF	✓	✓		
UNC / UNF / UN-8				
G / Rc / Rp				
MJ / UNJC / UNJF				
NPT / NPTF				
Pg / BSW / Tr				
STI / Eg / thread insert				
Tolerance	6GX / 6HX	6HX	6HX	6HX
Coolant supply	External / axial	axial	axial	axial
Chamfer form	C / E	C	C	C / E
Coating / grade	WW60AD / WW60BA	WW60AD / WW60EL	WY80AD	WG20EL
Cutting tool material	HSS-E-PM	HSS-E-PM	HSS-E	VHM
P Steel	●●	●●	●	●●
M Stainless steel	●●	●	●●	
K Cast iron	●	●		●
N NF metals	●●	●	●	●
S Materials with difficult cutting properties	●		●	
H Hard materials				
O Other				
Page in catalog	C 339	C 353	C 357	C 367
QR code				
www.walter-tools.com/woc/	TC420	TC430	TC440	TC470

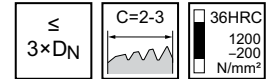
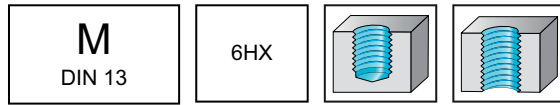
C2

HSS-E machine thread formers

TC410 Advance

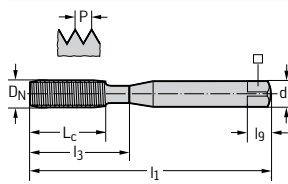


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174

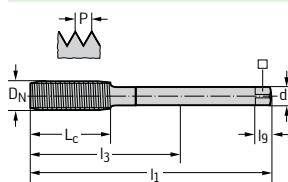


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
TC410-M1-C0-	M 1	0.25	40	5	5	2.5	2.1	5	3	☼
TC410-M1.1-C0-	M 1.1	0.25	40	5	5	2.5	2.1	5	3	☼
TC410-M1.2-C0-	M 1.2	0.25	40	5	5	2.5	2.1	5	3	☼
TC410-M1.4-C0-	M 1.4	0.3	40	7	7	2.5	2.1	5	3	☼
TC410-M1.6-C0-	M 1.6	0.35	40	7	7	2.5	2.1	5	3	☼
TC410-M1.7-C0-	M 1.7	0.35	40	7	7	2.5	2.1	5	3	☼
TC410-M1.8-C0-	M 1.8	0.35	40	7	7	2.5	2.1	5	3	☼
TC410-M2-C0-	M 2	0.4	45	6	11	2.8	2.1	5	3	☼
TC410-M2.2-C0-	M 2.2	0.45	45	7	12	2.8	2.1	5	3	☼
TC410-M2.3-C0-	M 2.3	0.4	45	7	12	2.8	2.1	5	3	☼
TC410-M2.5-C0-	M 2.5	0.45	50	8	13	2.8	2.1	5	3	☼
TC410-M2.6-C0-	M 2.6	0.45	50	8	14	2.8	2.1	5	3	☼
TC410-M3-C0-	M 3	0.5	56	9	18	3.5	2.7	6	4	☼
TC410-M3.5-C0-	M 3.5	0.6	56	11	20	4	3	6	4	☼
TC410-M4-C0-	M 4	0.7	63	12	21	4.5	3.4	6	5	☼
TC410-M5-C0-	M 5	0.8	70	13	25	6	4.9	8	5	☼
TC410-M6-C0-	M 6	1	80	15	30	6	4.9	8	5	☼
TC410-M7-C0-	M 7	1	80	15	30	7	5.5	8	5	☼
TC410-M8-C0-	M 8	1.25	90	18	35	8	6.2	9	5	☼
TC410-M10-C0-	M 10	1.5	100	20	39	10	8	11	6	☼

Ordering example for the grade WY80AD: TC410-M1-C0-WY80AD

DIN 2174



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
TC410-M12-L0-	M 12	1.75	110	23	83	9	7	10	6	☼
TC410-M14-L0-	M 14	2	110	25	81	11	9	12	6	☼
TC410-M16-L0-	M 16	2	110	25	68	12	9	12	6	☼
TC410-M18-L0-	M 18	2.5	125	30	81	14	11	14	7	☼
TC410-M20-L0-	M 20	2.5	140	30	95	16	12	15	7	☼
TC410-M24-L0-	M 24	3	160	36	113	18	14.5	17	8	☼

Ordering example for the grade WY80AD: TC410-M12-L0-WY80AD

WALTER
SELECT

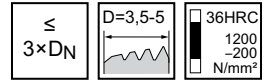
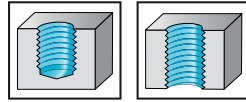
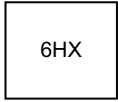
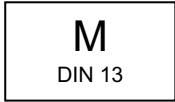
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E machine thread formers

TC410 Advance

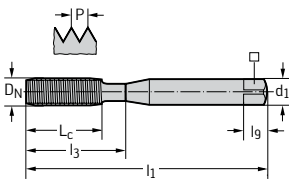


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-M2-CD-	M 2	0.4	45	6	11	2.8	2.1	5	3	☼	
TC410-M3-CD-	M 3	0.5	56	9	18	3.5	2.7	6	4	☼	
TC410-M4-CD-	M 4	0.7	63	12	21	4.5	3.4	6	5	☼	
TC410-M5-CD-	M 5	0.8	70	13	25	6	4.9	8	5	☼	
TC410-M6-CD-	M 6	1	80	15	30	6	4.9	8	5	☼	
TC410-M8-CD-	M 8	1.25	90	18	35	8	6.2	9	5	☼	



Parallel shank

Ordering example for the grade WY80AD: TC410-M2-CD-WY80AD

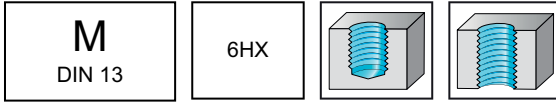
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC410 Advance

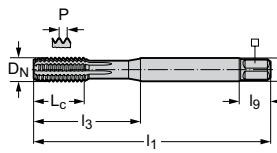


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2174

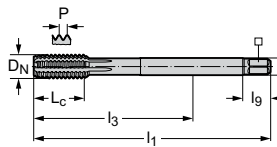


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WY80AD
TC410-M3-CL-	M 3	0.5	56	9	18	3.5	2.7	6	4	●●
TC410-M4-CL-	M 4	0.7	63	12	21	4.5	3.4	6	5	●●
TC410-M5-CL-	M 5	0.8	70	13	25	6	4.9	8	5	●●
TC410-M6-CL-	M 6	1	80	15	30	6	4.9	8	5	●●
TC410-M8-CL-	M 8	1.25	90	18	35	8	6.2	9	5	●●
TC410-M10-CL-	M 10	1.5	100	20	39	10	8	11	6	●●

Parallel shank

Ordering example for the grade WY80AD: TC410-M10-CL-WY80AD

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l _g mm	N	WY80AD
TC410-M12-LL-	M 12	1.75	110	23	83	9	7	10	6	●●
TC410-M16-LL-	M 16	2	110	25	68	12	9	12	6	●●

Parallel shank

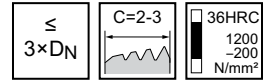
Ordering example for the grade WY80AD: TC410-M12-LL-WY80AD

HSS-E machine thread formers

TC410 Advance



- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
<p>Parallel shank</p>	TC410-M2-E0-	M 2	0.4	45	6	11	2.8	2.1	5	3	☼	
	TC410-M2.5-E0-	M 2.5	0.45	50	8	14	2.8	2.1	5	3	☼	
	TC410-M3-E0-	M 3	0.5	56	9	18	3.5	2.7	6	4	☼	
	TC410-M3.5-E0-	M 3.5	0.6	56	11	20	4	3	6	4	☼	
	TC410-M4-E0-	M 4	0.7	63	12	21	4.5	3.4	6	5	☼	
	TC410-M5-E0-	M 5	0.8	70	13	25	6	4.9	8	5	☼	
	TC410-M6-E0-	M 6	1	80	15	30	6	4.9	8	5	☼	
	TC410-M8-E0-	M 8	1.25	90	18	35	8	6.2	9	5	☼	
	TC410-M10-E0-	M 10	1.5	100	20	39	10	8	11	6	☼	

Ordering example for the grade WY80AD: TC410-M10-E0-WY80AD

DIN 2174		Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
<p>Parallel shank</p>	TC410-M12-N0-	M 12	1.75	110	23	83	9	7	10	6	☼	

Ordering example for the grade WY80AD: TC410-M12-N0-WY80AD

WALTER SELECT ●● Primary application ● Other application

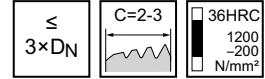
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC410 Advance

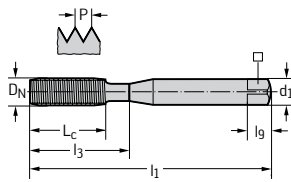


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174											WY80AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N		
TC410-M2-F0-	M 2	0.4	45	6	11	2.8	2.1	5	3	☼	
TC410-M2,5-F0-	M 2.5	0.45	50	8	14	2.8	2.1	5	3	☼	
TC410-M3-F0-	M 3	0.5	56	9	18	3.5	2.7	6	4	☼	
TC410-M4-F0-	M 4	0.7	63	12	21	4.5	3.4	6	5	☼	
TC410-M5-F0-	M 5	0.8	70	13	25	6	4.9	8	5	☼	
TC410-M6-F0-	M 6	1	80	15	30	6	4.9	8	5	☼	
TC410-M8-F0-	M 8	1.25	90	18	35	8	6.2	9	5	☼	
TC410-M10-F0-	M 10	1.5	100	20	39	10	8	11	6	☼	



Parallel shank

Ordering example for the grade WY80AD: TC410-M10-F0-WY80AD

C2

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

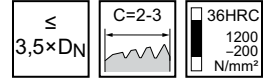
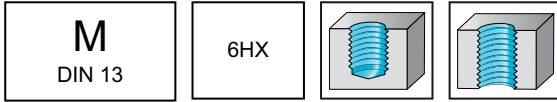
●● Primary application ● Other application

HSS-E machine thread formers

TC410 Advance



- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●		

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-M2-C6-	M 2	0.4	45	6	11	2.8	2.1	5	3	☼	
TC410-M2.5-C6-	M 2.5	0.45	50	8	13	2.8	2.1	5	3	☼	
TC410-M3-C6-	M 3	0.5	56	9	18	3.5	2.7	6	4	☼	
TC410-M3.5-C6-	M 3.5	0.6	56	11	20	4	3	6	4	☼	
TC410-M4-C6-	M 4	0.7	63	12	21	4.5	3.4	6	5	☼	
TC410-M5-C6-	M 5	0.8	70	13	25	6	4.9	8	5	☼	
TC410-M6-C6-	M 6	1	80	15	30	6	4.9	8	5	☼	
TC410-M7-C6-	M 7	1	80	15	30	7	5.5	8	5	☼	
TC410-M8-C6-	M 8	1.25	90	18	35	8	6.2	9	5	☼	
TC410-M10-C6-	M 10	1.5	100	20	39	10	8	11	6	☼	

Ordering example for the grade WY80AD: TC410-M10-C6-WY80AD

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-M12-L6-	M 12	1.75	110	23	83	9	7	10	6	☼	
TC410-M14-L6-	M 14	2	110	25	81	11	9	12	6	☼	
TC410-M16-L6-	M 16	2	110	25	68	12	9	12	6	☼	
TC410-M18-L6-	M 18	2.5	125	30	81	14	11	14	7	☼	
TC410-M20-L6-	M 20	2.5	140	30	95	16	12	15	7	☼	
TC410-M24-L6-	M 24	3	160	36	113	18	14.5	17	8	☼	

Ordering example for the grade WY80AD: TC410-M12-L6-WY80AD

WALTER SELECT ●● Primary application ● Other application

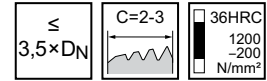
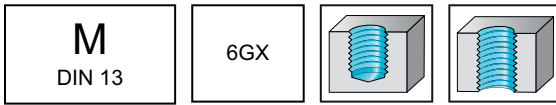
Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E machine thread formers

TC410 Advance

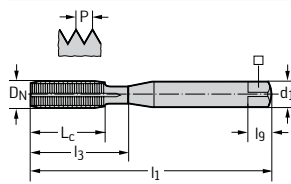


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2174

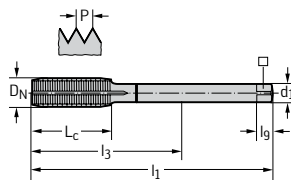


Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WY80AD
TC410-M2-E6-	M 2	0.4	45	6	11	2.8	2.1	5	3	☼
TC410-M2,5-E6-	M 2.5	0.45	50	8	14	2.8	2.1	5	3	☼
TC410-M3-E6-	M 3	0.5	56	9	18	3.5	2.7	6	4	☼
TC410-M3,5-E6-	M 3.5	0.6	56	11	20	4	3	6	4	☼
TC410-M4-E6-	M 4	0.7	63	12	21	4.5	3.4	6	5	☼
TC410-M5-E6-	M 5	0.8	70	13	25	6	4.9	8	5	☼
TC410-M6-E6-	M 6	1	80	15	30	6	4.9	8	5	☼
TC410-M8-E6-	M 8	1.25	90	18	35	8	6.2	9	5	☼
TC410-M10-E6-	M 10	1.5	100	20	39	10	8	11	6	☼

Ordering example for the grade WY80AD: TC410-M10-E6-WY80AD

DIN 2174



Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	mm	l_g mm	N	WY80AD
TC410-M12-N6-	M 12	1.75	110	23	83	9	7	10	6	☼

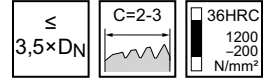
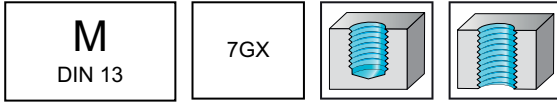
Ordering example for the grade WY80AD: TC410-M12-N6-WY80AD

HSS-E machine thread formers

TC410 Advance

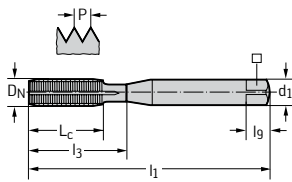


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●		

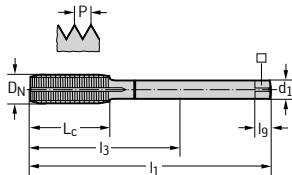
DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WY80AD
TC410-M2-F6-	M 2	0.4	45	6	11	2.8	2.1	5	3	☼	☼
TC410-M2.5-F6-	M 2.5	0.45	50	8	14	2.8	2.1	5	3	☼	☼
TC410-M3-F6-	M 3	0.5	56	9	18	3.5	2.7	6	4	☼	☼
TC410-M4-F6-	M 4	0.7	63	12	21	4.5	3.4	6	5	☼	☼
TC410-M5-F6-	M 5	0.8	70	13	25	6	4.9	8	5	☼	☼
TC410-M6-F6-	M 6	1	80	15	30	6	4.9	8	5	☼	☼
TC410-M8-F6-	M 8	1.25	90	18	35	8	6.2	9	5	☼	☼
TC410-M10-F6-	M 10	1.5	100	20	39	10	8	11	6	☼	☼



Parallel shank

Ordering example for the grade WY80AD: TC410-M10-F6-WY80AD

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		WY80AD
TC410-M12-P6-	M 12	1.75	110	23	83	9	7	10	6	☼	☼



Parallel shank

Ordering example for the grade WY80AD: TC410-M12-P6-WY80AD

WALTER SELECT ●● Primary application ● Other application

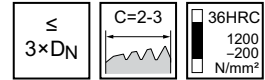
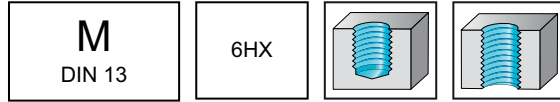
Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

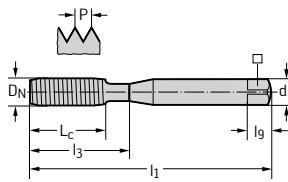


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●●	●		
WW60BA (TiCN)	●●	●	●	●●	●		

DIN 2174

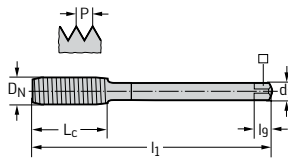


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-C0-	M 2	0.4	45	4	11	2.8	2.1	5	3	●●	●●
TC420-M2,5-C0-	M 2.5	0.45	50	4	14	2.8	2.1	5	3	●●	●●
TC420-M3-C0-	M 3	0.5	56	6	18	3.5	2.7	6	4	●●	●●
TC420-M3,5-C0-	M 3.5	0.6	56	7	20	4	3	6	4	●●	●●
TC420-M4-C0-	M 4	0.7	63	7	21	4.5	3.4	6	5	●●	●●
TC420-M5-C0-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●
TC420-M6-C0-	M 6	1	80	10	30	6	4.9	8	5	●●	●●
TC420-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●
TC420-M10-C0-	M 10	1.5	100	15	39	10	8	11	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10-C0-WW60AD

DIN 2174



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-L0-	M 12	1.75	110	16	83	9	7	10	6	●●	●●
TC420-M14-L0-	M 14	2	110	20	81	11	9	12	6	●●	
TC420-M16-L0-	M 16	2	110	20	68	12	9	12	6	●●	
TC420-M20-L0-	M 20	2.5	140	25	95	16	12	15	7	●●	

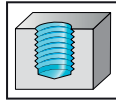
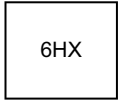
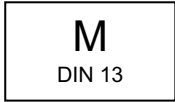
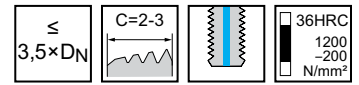
Ordering example for the grade WW60AD: TC420-M12-L0-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme

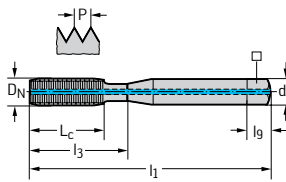


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

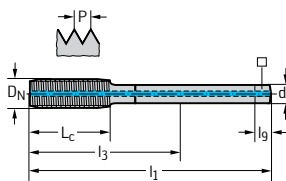
DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N		WW60AD	WW60BA
TC420-M5-C1-	M 5	0.8	70	8	25	6	4.9	8	5		☒	☒
TC420-M6-C1-	M 6	1	80	10	30	6	4.9	8	5		☒	☒
TC420-M8-C1-	M 8	1.25	90	12	35	8	6.2	9	5		☒	☒
TC420-M10-C1-	M 10	1.5	100	15	39	10	8	11	6		☒	☒



Parallel shank

Ordering example for the grade WW60AD: TC420-M10-C1-WW60AD

DIN 2174											WW60AD	WW60BA
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N		WW60AD	WW60BA
TC420-M12-L1-	M 12	1.75	110	16	83	9	7	10	6		☒	☒
TC420-M14-L1-	M 14	2	110	20	81	11	9	12	6		☒	☒
TC420-M16-L1-	M 16	2	110	20	68	12	9	12	6		☒	☒



Parallel shank

Ordering example for the grade WW60AD: TC420-M12-L1-WW60AD

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

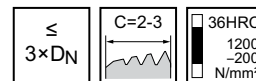


- For long-chipping materials



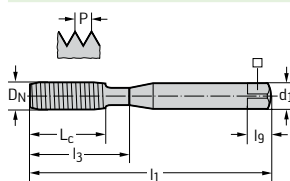
M
DIN 13

6GX



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●●	●		
WW60BA (TiCN)	●●	●	●	●●	●		

DIN 2174

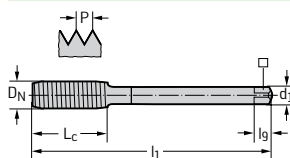


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-E0-	M 2	0.4	45	4	11	2.8	2.1	5	3	●●	●●
TC420-M2,5-E0-	M 2.5	0.45	50	4	14	2.8	2.1	5	3	●●	●●
TC420-M3-E0-	M 3	0.5	56	6	18	3.5	2.7	6	4	●●	●●
TC420-M3,5-E0-	M 3.5	0.6	56	7	20	4	3	6	4	●●	
TC420-M4-E0-	M 4	0.7	63	7	21	4.5	3.4	6	5	●●	●●
TC420-M5-E0-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●
TC420-M6-E0-	M 6	1	80	10	30	6	4.9	8	5	●●	●●
TC420-M8-E0-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●
TC420-M10-E0-	M 10	1.5	100	15	39	10	8	11	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10-E0-WW60AD

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
TC420-M12-N0-	M 12	1.75	110	16	83	9	7	10	6	●●
TC420-M16-N0-	M 16	2	110	20	68	12	9	12	6	●●

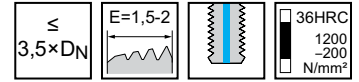
Ordering example for the grade WW60AD: TC420-M12-N0-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme

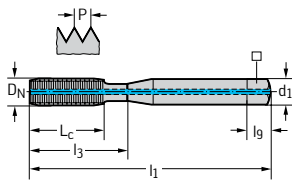


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●		
WW60BA (TiCN)	●●	●●	●●	●●	●		

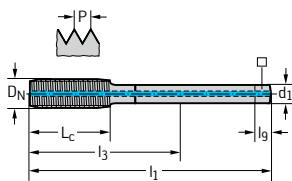
DIN 2174											WW60AD	WW60BA
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N			
TC420-M5-CF-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●	
TC420-M6-CF-	M 6	1	80	10	30	6	4.9	8	5	●●	●●	
TC420-M8-CF-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●	
TC420-M10-CF-	M 10	1.5	100	15	39	10	8	11	6	●●	●●	



Parallel shank

Ordering example for the grade WW60AD: TC420-M10-CF-WW60AD

DIN 2174											WW60AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N		
TC420-M12-LF-	M 12	1.75	110	16	83	9	7	10	6	●●	
TC420-M16-LF-	M 16	2	110	20	68	12	9	12	6	●●	



Parallel shank

Ordering example for the grade WW60AD: TC420-M12-LF-WW60AD

WALTER SELECT ●● Primary application ● Other application

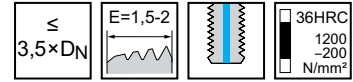
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

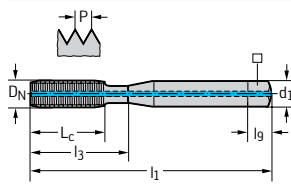


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●		
WW60BA (TiCN)	●●	●●	●●	●●	●		

DIN 2174

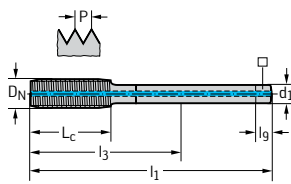


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M5-EF-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●
TC420-M6-EF-	M 6	1	80	10	30	6	4.9	8	5	●●	●●
TC420-M8-EF-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●
TC420-M10-EF-	M 10	1.5	100	15	39	10	8	11	6	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M10-EF-WW60AD

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
TC420-M12-NF-	M 12	1.75	110	16	83	9	7	10	6	●●
TC420-M16-NF-	M 16	2	110	20	68	12	9	12	6	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M12-NF-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme



– For long-chipping materials

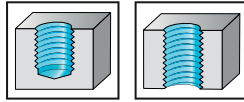
$\leq 3,5 \times D_N$

C=2-3

36HRC
 1200
 -200
 N/mm²

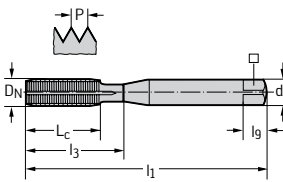
M
DIN 13

6HX



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174

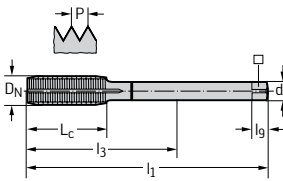


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-C6-	M 2	0.4	45	4	11	2.8	2.1	5	3	●●	●●
TC420-M2.5-C6-	M 2.5	0.45	50	4	14	2.8	2.1	5	3	●●	●●
TC420-M3-C6-	M 3	0.5	56	6	18	3.5	2.7	6	4	●●	●●
TC420-M3.5-C6-	M 3.5	0.6	56	7	20	4	3	6	4	●●	●●
TC420-M4-C6-	M 4	0.7	63	7	21	4.5	3.4	6	5	●●	●●
TC420-M5-C6-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●
TC420-M6-C6-	M 6	1	80	10	30	6	4.9	8	5	●●	●●
TC420-M8-C6-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●
TC420-M10-C6-	M 10	1.5	100	15	39	10	8	11	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10-C6-WW60AD

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-L6-	M 12	1.75	110	16	83	9	7	10	6	●●	●●
TC420-M14-L6-	M 14	2	110	20	81	11	9	12	6	●●	●●
TC420-M16-L6-	M 16	2	110	20	68	12	9	12	6	●●	●●
TC420-M20-L6-	M 20	2.5	140	25	95	16	12	15	7	●●	●●

Ordering example for the grade WW60AD: TC420-M12-L6-WW60AD

C2

WALTER SELECT

●● Primary application

● Other application

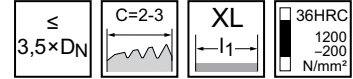
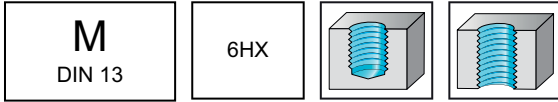
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		

~DIN 371 XL

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
TC420-M3-CH-	M 3	0.5	125	6	18	3.5	2.7	6	4	●●
TC420-M4-CH-	M 4	0.7	125	7	21	4.5	3.4	6	5	●●
TC420-M5-CH-	M 5	0.8	140	8	25	6	4.9	8	5	●●
TC420-M6-CH-	M 6	1	160	10	30	6	4.9	8	5	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M3-CH-WW60AD

~DIN 376 XL

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD
TC420-M8-LH-	M 8	1.25	180	13	157	6	4.9	8	5	●●
TC420-M10-LH-	M 10	1.5	200	15	177	7	5.5	8	6	●●
TC420-M12-LH-	M 12	1.75	220	16	193	9	7	10	6	●●
TC420-M16-LH-	M 16	2	220	20	178	12	9	12	6	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M10-LH-WW60AD

C2

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

●● Primary application ● Other application

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials

$\leq 3,5 \times D_N$

$C=2-3$

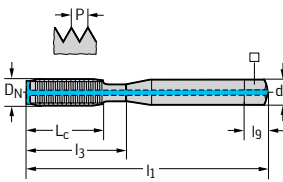
36HRC
1200-200
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174

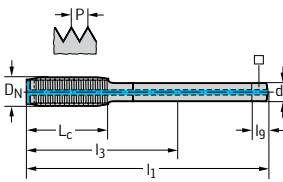


Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M5-C2-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●
TC420-M6-C2-	M 6	1	80	10	30	6	4.9	8	5	●●	●●
TC420-M8-C2-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●
TC420-M10-C2-	M 10	1.5	100	15	39	10	8	11	6	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M10-C2-WW60AD

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M12-L2-	M 12	1.75	110	16	83	9	7	10	6	●●	●●
TC420-M14-L2-	M 14	2	110	20	81	11	9	12	6	●●	●●
TC420-M16-L2-	M 16	2	110	20	68	12	9	12	6	●●	●●
TC420-M20-L2-	M 20	2.5	140	25	95	16	12	15	7	●●	●●
TC420-M24-L2-	M 24	3	160	30	113	18	14.5	17	8	●●	●●

Parallel shank

Ordering example for the grade WW60AD: TC420-M12-L2-WW60AD

C2

WALTER SELECT

●● Primary application ● Other application

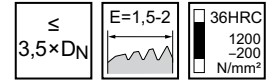
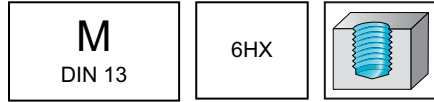
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

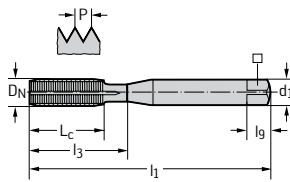


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174

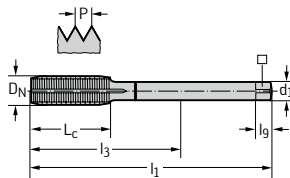


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M2-CE-	M 2	0.4	45	4	11	2.8	2.1	5	3	●●	●●
TC420-M2,5-CE-	M 2.5	0.45	50	4	14	2.8	2.1	5	3	●●	●●
TC420-M3-CE-	M 3	0.5	56	6	18	3.5	2.7	6	4	●●	●●
TC420-M3,5-CE-	M 3.5	0.6	56	7	20	4	3	6	4	●●	
TC420-M4-CE-	M 4	0.7	63	7	21	4.5	3.4	6	5	●●	●●
TC420-M5-CE-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●
TC420-M6-CE-	M 6	1	80	10	30	6	4.9	8	5	●●	●●
TC420-M8-CE-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●
TC420-M10-CE-	M 10	1.5	100	15	39	10	8	11	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10-CE-WW60AD

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60BA
TC420-M12-LE-	M 12	1.75	110	16	83	9	7	10	6	●●	●●
TC420-M14-LE-	M 14	2	110	20	81	11	9	12	6	●●	
TC420-M16-LE-	M 16	2	110	20	68	12	9	12	6	●●	●●

Ordering example for the grade WW60AD: TC420-M12-LE-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials

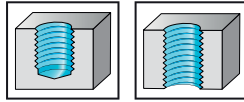
\leq
 $3,5 \times D_N$

$C=2-3$

36HRC
 1200
 -200
 N/mm²

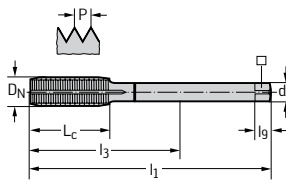
M
DIN 13

6GX



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174

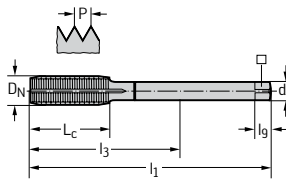


Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M2-E6-	M 2	0.4	45	4	11	2.8	2.1	5	3	●●	●●
TC420-M2,5-E6-	M 2.5	0.45	50	4	14	2.8	2.1	5	3	●●	●●
TC420-M3-E6-	M 3	0.5	56	6	18	3.5	2.7	6	4	●●	●●
TC420-M3,5-E6-	M 3.5	0.6	56	7	20	4	3	6	4	●●	●●
TC420-M4-E6-	M 4	0.7	63	7	21	4.5	3.4	6	5	●●	●●
TC420-M5-E6-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●
TC420-M6-E6-	M 6	1	80	10	30	6	4.9	8	5	●●	●●
TC420-M8-E6-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●
TC420-M10-E6-	M 10	1.5	100	15	39	10	8	11	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10-E6-WW60AD

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
TC420-M12-N6-	M 12	1.75	110	16	83	9	7	10	6	●●
TC420-M14-N6-	M 14	2	110	20	81	11	9	12	6	●●
TC420-M16-N6-	M 16	2	110	20	68	12	9	12	6	●●

Ordering example for the grade WW60AD: TC420-M12-N6-WW60AD

C2

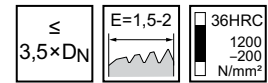
WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme

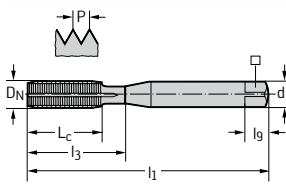


– For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174

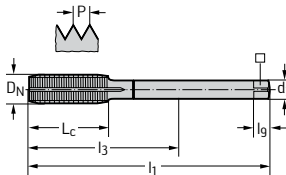


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M2-EE-	M 2	0.4	45	4	11	2.8	2.1	5	3	●●	●●
TC420-M2,5-EE-	M 2.5	0.45	50	4	14	2.8	2.1	5	3	●●	●●
TC420-M3-EE-	M 3	0.5	56	6	18	3.5	2.7	6	4	●●	●●
TC420-M4-EE-	M 4	0.7	63	7	21	4.5	3.4	6	5	●●	●●
TC420-M5-EE-	M 5	0.8	70	8	25	6	4.9	8	5	●●	●●
TC420-M6-EE-	M 6	1	80	10	30	6	4.9	8	5	●●	●●
TC420-M8-EE-	M 8	1.25	90	12	35	8	6.2	9	5	●●	●●
TC420-M10-EE-	M 10	1.5	100	15	39	10	8	11	6	●●	●●

Ordering example for the grade WW60AD: TC420-M10-EE-WW60AD

DIN 2174



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD
TC420-M12-NE-	M 12	1.75	110	16	83	9	7	10	6	●●
TC420-M14-NE-	M 14	2	110	20	81	11	9	12	6	●●
TC420-M16-NE-	M 16	2	110	20	68	12	9	12	6	●●

Ordering example for the grade WW60AD: TC420-M12-NE-WW60AD

HSS-E machine thread formers

Protodyn® S Synchrospeed mm



- For long-chipping materials
- Only for synchronous machining (rigid tapping)

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
1200
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●		
TICN	●●	●●	●●	●●	●		

~DIN 2174	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_g mm	N
	TICN	TIN									
	S2061306-M3	S2061305-M3	M 3	0.5	70	3	18	6	4.9	8	3
	S2061306-M4	S2061305-M4	M 4	0.7	70	4	21	6	4.9	8	3
	S2061306-M5	S2061305-M5	M 5	0.8	70	5	25	6	4.9	8	4
	S2061306-M6	S2061305-M6	M 6	1	80	6	30	6	4.9	8	4
	S2061306-M8	S2061305-M8	M 8	1.25	90	8	35	8	6.2	9	5
	S2061306-M10	S2061305-M10	M 10	1.5	100	9	39	10	8	11	5

Parallel shank

~DIN 2174	Designation	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_g mm	N
	TICN	TIN									
	S2066306-M12	S2066305-M12	M 12	1.75	110	11	42	12	9	12	5

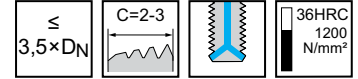
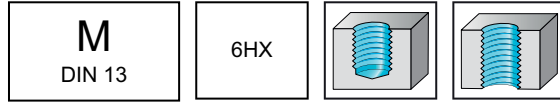
Parallel shank

HSS-E machine thread formers

Protodyn® S Synchrospeed mm



- For long-chipping materials
- Only for synchronous machining (rigid tapping)



	P	M	K	N	S	H	O
TIN	●●	●●	●	●●	●		

~DIN 2174		Designation	P	l ₁	L _c	l ₃	d ₁	□	l _g	N	
		TIN	mm	mm	mm	mm	h6	mm	mm		
		D _N					mm				
		S2061345-M4	M 4	0.7	70	4	21	6	4.9	8	3
		S2061345-M5	M 5	0.8	70	5	25	6	4.9	8	4
		S2061345-M6	M 6	1	80	6	30	6	4.9	8	4
		S2061345-M8	M 8	1.25	90	8	35	8	6.2	9	5
		S2061345-M10	M 10	1.5	100	9	39	10	8	11	5
Parallel shank											

~DIN 2174		Designation	P	l ₁	L _c	l ₃	d ₁	□	l _g	N	
		TIN	mm	mm	mm	mm	h6	mm	mm		
		D _N					mm				
		S2066345-M12	M 12	1.75	110	11	42	12	9	12	5
Parallel shank											

C2

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

●● Primary application ● Other application

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil

\leq
3×DN

C=2-3

36HRC
 1200
 -200
 N/mm²

M
DIN 13

6HX

WW60EL (AlCrN)	●●	●	●	●	●	●	●
	P	M	K	N	S	H	O

DIN 2174	Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60EL
<p>Parallel shank</p>	TC430-M3-C0-	M 3	0.5	56	6	18	3.5	2.7	6	4	
	TC430-M4-C0-	M 4	0.7	63	7	21	4.5	3.4	6	5	
	TC430-M5-C0-	M 5	0.8	70	8	25	6	4.9	8	5	
	TC430-M6-C0-	M 6	1	80	10	30	6	4.9	8	5	
	TC430-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	6	
	TC430-M10-C0-	M 10	1.5	100	15	39	10	8	11	7	

Ordering example for the grade WW60EL: TC430-M10-C0-WW60EL

WALTER SELECT

●● Primary application ● Other application



Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E-PM machine thread formers

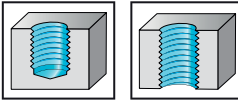
TC430 Supreme



- For long-chipping materials
- ISO M only with oil

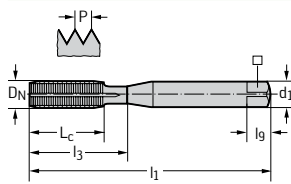
$\leq 3,5 \times D_N$



M
DIN 13

6HX


	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●	■	■	■
WW60EL (AlCrN)	●●	●	●	●	■	■	■

DIN 2174

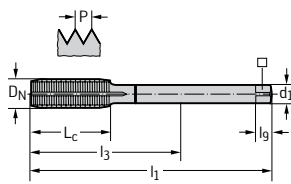


Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	WW60AD	WW60EL
TC430-M3-C6-	M 3	0.5	56	6	18	3.5	2.7	6	4		☒
TC430-M4-C6-	M 4	0.7	63	7	21	4.5	3.4	6	5		☒
TC430-M5-C6-	M 5	0.8	70	8	25	6	4.9	8	5		☒
TC430-M6-C6-	M 6	1	80	10	30	6	4.9	8	5		☒
TC430-M8-C6-	M 8	1.25	90	12	35	8	6.2	9	6	☒	☒
TC430-M10-C6-	M 10	1.5	100	15	39	10	8	11	7	☒	☒

Ordering example for the grade WW60AD: TC430-M10-C6-WW60AD

DIN 2174



Parallel shank

Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N	WW60AD	WW60EL
TC430-M12-L6-	M 12	1.75	110	16	83	9	7	10	8	☒	☒
TC430-M16-L6-	M 16	2	110	20	68	12	9	12	8	☒	

Ordering example for the grade WW60AD: TC430-M12-L6-WW60AD

C2

WALTER SELECT

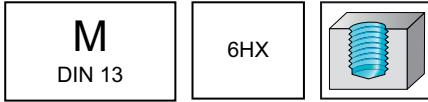
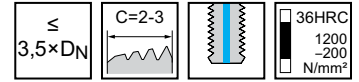
 ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

HSS-E-PM machine thread formers

TC430 Supreme

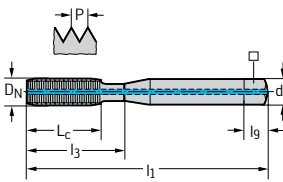


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●			
WW60EL (AlCrN)	●●	●	●	●			

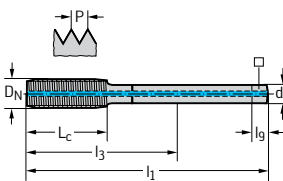
DIN 2174											WW60AD	WW60EL
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N			
TC430-M5-C1-	M 5	0.8	70	8	25	6	4.9	8	5			☒
TC430-M6-C1-	M 6	1	80	10	30	6	4.9	8	5			☒
TC430-M8-C1-	M 8	1.25	90	12	35	8	6.2	9	6	☒	☒	
TC430-M10-C1-	M 10	1.5	100	15	39	10	8	11	7	☒	☒	



Parallel shank

Ordering example for the grade WW60AD: TC430-M10-C1-WW60AD

DIN 2174											WW60AD	WW60EL
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N			
TC430-M12-L1-	M 12	1.75	110	16	83	9	7	10	8	☒	☒	
TC430-M16-L1-	M 16	2	110	20	68	12	9	12	8	☒	☒	



Parallel shank

Ordering example for the grade WW60AD: TC430-M12-L1-WW60AD

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

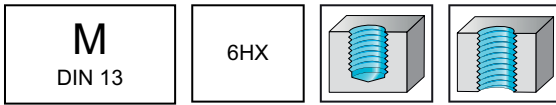
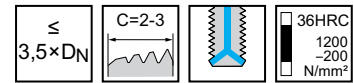
C2

HSS-E-PM machine thread formers

TC430 Supreme

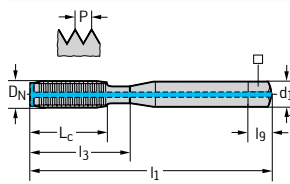


- For long-chipping materials
- ISO M only with oil



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●	●		
WW60EL (AlCrN)	●●	●	●	●	●		

DIN 2174

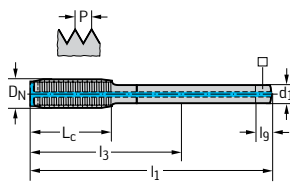


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60EL
TC430-M5-C2-	M 5	0.8	70	8	25	6	4.9	8	5		☹
TC430-M6-C2-	M 6	1	80	10	30	6	4.9	8	5		☹
TC430-M8-C2-	M 8	1.25	90	12	35	8	6.2	9	6	☹	☹
TC430-M10-C2-	M 10	1.5	100	15	39	10	8	11	7	☹	☹

Parallel shank

Ordering example for the grade WW60AD: TC430-M10-C2-WW60AD

DIN 2174



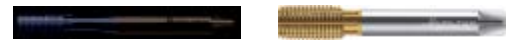
Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WW60AD	WW60EL
TC430-M12-L2-	M 12	1.75	110	16	83	9	7	10	8	☹	☹
TC430-M16-L2-	M 16	2	110	20	68	12	9	12	8	☹	☹

Parallel shank

Ordering example for the grade WW60AD: TC430-M12-L2-WW60AD

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil

\leq
3,5×DN

C=2-3

36HRC
 1200
 -200
 N/mm²

M
DIN 13

6GX

	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●			

DIN 2174											WW60AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC430-M8-E6-	M 8	1.25	90	12	35	8	6.2	9	6	☼	
TC430-M10-E6-	M 10	1.5	100	15	39	10	8	11	7	☼	

Parallel shank

Ordering example for the grade WW60AD: TC430-M10-E6-WW60AD

DIN 2174											WW60AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC430-M12-N6-	M 12	1.75	110	16	83	9	7	10	8	☼	
TC430-M16-N6-	M 16	2	110	20	68	12	9	12	8	☼	

Parallel shank

Ordering example for the grade WW60AD: TC430-M12-N6-WW60AD

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

C2

HSS-E machine thread formers

TC440 Supreme



- For long-chipping materials
- For stainless steels when using emulsion

\leq
3,5×DN

C=2-3

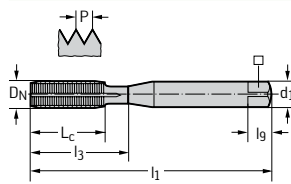
32HRC
 1000
-200
N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WY80AD (TiN)	●	●●	●	●	●	●	●

DIN 2174

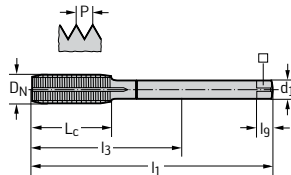


Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
TC440-M2-C6-	M 2	0.4	45	6	6	2.8	2.1	5	3	☼
TC440-M2,5-C6-	M 2.5	0.45	50	8	8	2.8	2.1	5	3	☼
TC440-M3-C6-	M 3	0.5	56	6	18	3.5	2.7	6	3	☼
TC440-M4-C6-	M 4	0.7	63	7	21	4.5	3.4	6	3	☼
TC440-M5-C6-	M 5	0.8	70	8	25	6	4.9	8	4	☼
TC440-M6-C6-	M 6	1	80	10	30	6	4.9	8	5	☼
TC440-M8-C6-	M 8	1.25	90	12	35	8	6.2	9	5	☼
TC440-M10-C6-	M 10	1.5	100	15	39	10	8	11	5	☼

Ordering example for the grade WY80AD: TC440-M12-L6-WY80AD

DIN 2174



Parallel shank

Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WY80AD
TC440-M12-L6-	M 12	1.75	110	16	83	9	7	10	5	☼

Ordering example for the grade WY80AD: TC440-M12-L6-WY80AD

HSS-E machine thread formers

TC440 Supreme



- For long-chipping materials
- For stainless steels when using emulsion

$\leq 3,5 \times D_N$

$C=2-3$

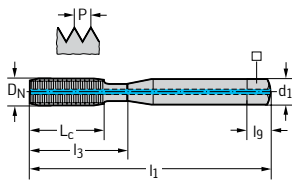
32HRC
 1000
 -200
 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
WY80AD (TiN)	●	●●	●	●	●	●	●

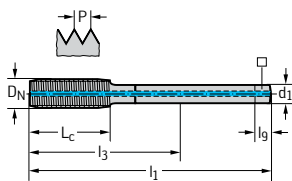
DIN 2174											WY80AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N		
TC440-M5-C1-	M 5	0.8	70	8	25	6	4.9	8	4	●●	
TC440-M6-C1-	M 6	1	80	10	30	6	4.9	8	5	●●	
TC440-M8-C1-	M 8	1.25	90	12	35	8	6.2	9	5	●●	
TC440-M10-C1-	M 10	1.5	100	15	39	10	8	11	5	●●	



Parallel shank

Ordering example for the grade WY80AD: TC440-M10-C1-WY80AD

DIN 2174											WY80AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N		
TC440-M12-L1-	M 12	1.75	110	16	83	9	7	10	5	●●	



Parallel shank

Ordering example for the grade WY80AD: TC440-M12-L1-WY80AD

WALTER SELECT

●● Primary application ● Other application

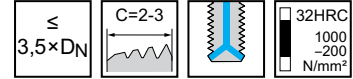
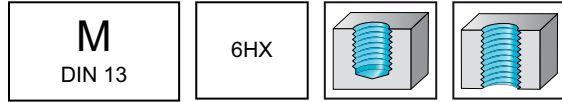
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC440 Supreme

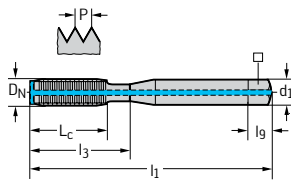


- For long-chipping materials
- For stainless steels when using emulsion



	P	M	K	N	S	H	O
WY80AD (TiN)	●	●●	●	●	●	●	●

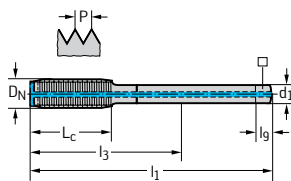
DIN 2174											WY80AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N		
TC440-M5-C2-	M 5	0.8	70	8	25	6	4.9	8	4	●●	
TC440-M6-C2-	M 6	1	80	10	30	6	4.9	8	5	●●	
TC440-M8-C2-	M 8	1.25	90	12	35	8	6.2	9	5	●●	
TC440-M10-C2-	M 10	1.5	100	15	39	10	8	11	5	●●	



Parallel shank

Ordering example for the grade WY80AD: TC440-M10-C2-WY80AD

DIN 2174											WY80AD
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N		
TC440-M12-L2-	M 12	1.75	110	16	83	9	7	10	5	●●	



Parallel shank

Ordering example for the grade WY80AD: TC440-M12-L2-WY80AD

C2

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

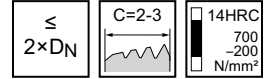
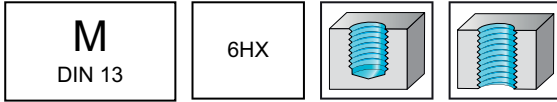
●● Primary application ● Other application

HSS-E machine thread formers

Protodyn® Eco LM mm



– For long-chipping materials



	P	M	K	N	S	H	O
CRN	●			●●	●●		

DIN 2174		Designation	P	l ₁	L _c	l ₃	d ₁	□	l _g	N
		CRN	mm	mm	mm	mm	h9 mm	mm	mm	
<p>Parallel shank</p>	E2061604-M2	M 2	0.4	45	6	11	2.8	2.1	5	3
	E2061604-M2,5	M 2.5	0.45	50	8	14	2.8	2.1	5	3
	E2061604-M3	M 3	0.5	56	9	18	3.5	2.7	6	3
	E2061604-M4	M 4	0.7	63	12	21	4.5	3.4	6	3
	E2061604-M5	M 5	0.8	70	13	25	6	4.9	8	4
	E2061604-M6	M 6	1	80	15	30	6	4.9	8	4
	E2061604-M8	M 8	1.25	90	18	35	8	6.2	9	4
	E2061604-M10	M 10	1.5	100	20	39	10	8	11	4

DIN 2174		Designation	P	l ₁	L _c	l ₃	d ₁	□	l _g	N
		CRN	mm	mm	mm	mm	h9 mm	mm	mm	
<p>Parallel shank</p>	E2066604-M12	M 12	1.75	110	23	83	9	7	10	4

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

Protodyn® C



- Nitrided
- For long-chipping materials

\leq
3×DN

C=2-3

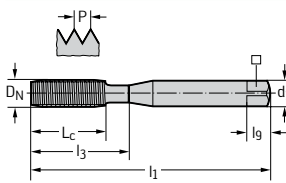
14HRC
 700
 ~200
 N/mm²

M
DIN 13

6HX

	P	M	K	N	S	H	O
NID	●						
uncoated	●						

DIN 2174



Parallel shank

Designation NID	Designation uncoated	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
D70611-M1	D7061100-M1	M 1	0.25	40	6	6	2.5	2.1	5	3
D70611-M1,2	D7061100-M1,2	M 1.2	0.25	40	6	6	2.5	2.1	5	3
D70611-M1,4	D7061100-M1,4	M 1.4	0.3	40	7	7	2.5	2.1	5	3
D70611-M1,6	D7061100-M1,6	M 1.6	0.35	40	8	8	2.5	2.1	5	3
D70611-M2	D7061100-M2	M 2	0.4	45	6	11	2.8	2.1	5	3
D70611-M2,5	D7061100-M2,5	M 2.5	0.45	50	8	13	2.8	2.1	5	3
D70611-M3	D7061100-M3	M 3	0.5	56	9	18	3.5	2.7	6	4
	D7061100-M3,5	M 3.5	0.6	56	11	20	4	3	6	4
D70611-M4	D7061100-M4	M 4	0.7	63	12	21	4.5	3.4	6	5
D70611-M5	D7061100-M5	M 5	0.8	70	13	25	6	4.9	8	5
D70611-M6	D7061100-M6	M 6	1	80	15	30	6	4.9	8	5
D70611-M8	D7061100-M8	M 8	1.25	90	18	35	8	6.2	9	5
D70611-M10	D7061100-M10	M 10	1.5	100	20	39	10	8	11	5

≤ M 1.4: 5HX

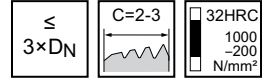
C2

HSS-E machine thread formers

Protodyn® C mm



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●						

DIN 2174		Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_9 mm	N
		D7063100-M3	M 3	0.5	56	9	18	3.5	2.7	6	4
		D7063100-M4	M 4	0.7	63	12	21	4.5	3.4	6	5
		D7063100-M6	M 6	1	80	15	30	6	4.9	8	5
		D7063100-M8	M 8	1.25	90	18	35	8	6.2	9	5
		D7063100-M10	M 10	1.5	100	20	39	10	8	11	5

Parallel shank

C2

HSS-E machine thread formers

Protodyn® SC

mm



- Nitrided
- For long-chipping materials

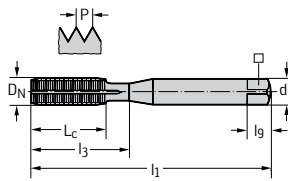
$\leq 3,5 \times D_N$

M
DIN 13

6HX

	P	M	K	N	S	H	O
NID	●			●			
uncoated	●			●			

DIN 2174



Parallel shank

Designation NID	Designation uncoated	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	□ mm	l_g mm	N
D70617-M3	D7061700-M3	M 3	0.5	56	9	18	3.5	2.7	6	4
D70617-M3,5		M 3.5	0.6	56	11	20	4	3	6	4
D70617-M4	D7061700-M4	M 4	0.7	63	12	21	4.5	3.4	6	5
D70617-M5	D7061700-M5	M 5	0.8	70	13	25	6	4.9	8	5
D70617-M6	D7061700-M6	M 6	1	80	15	30	6	4.9	8	5
D70617-M8	D7061700-M8	M 8	1.25	90	18	35	8	6.2	9	5
D70617-M10	D7061700-M10	M 10	1.5	100	20	39	10	8	11	5

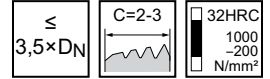
C2

HSS-E machine thread formers

Protodyn® SC mm



– For long-chipping materials



	P	M	K	N	S	H	O
uncoated	●			●			

DIN 2174	Designation uncoated	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N
	D7063700-M3	M 3	0.5	56	9	18	3.5	2.7	6	4
	D7063700-M4	M 4	0.7	63	12	21	4.5	3.4	6	5
	D7063700-M5	M 5	0.8	70	13	25	6	4.9	8	5
	D7063700-M6	M 6	1	80	15	30	6	4.9	8	5

C2

WALTER SELECT ●● Primary application ● Other application

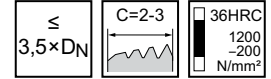
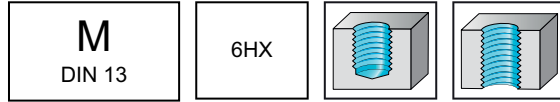
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

Protodyn® SF



- For long-chipping materials



TICN	P	M	K	N	S	H	O
	●●	●●	●	●●	●		

DIN 2174		Designation	P	l ₁	L _c	l ₃	d ₁	□	l _g	N
		TICN	mm	mm	mm	mm	h9	mm	mm	
<p>Parallel shank</p>	D7061706-M3	M 3	0.5	56	9	18	3.5	2.7	6	4
	D7061706-M4	M 4	0.7	63	12	21	4.5	3.4	6	5
	D7061706-M5	M 5	0.8	70	13	25	6	4.9	8	5
	D7061706-M6	M 6	1	80	15	30	6	4.9	8	5
	D7061706-M8	M 8	1.25	90	18	35	8	6.2	9	5
	D7061706-M10	M 10	1.5	100	20	39	10	8	11	5

DIN 2174		Designation	P	l ₁	L _c	l ₃	d ₁	□	l _g	N
		TICN	mm	mm	mm	mm	h9	mm	mm	
<p>Parallel shank</p>	D7066706-M12	M 12	1.75	110	23	83	9	7	10	5
	D7066706-M14	M 14	2	110	25	81	11	9	12	6
	D7066706-M16	M 16	2	110	25	68	12	9	12	6

C2

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

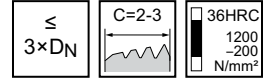
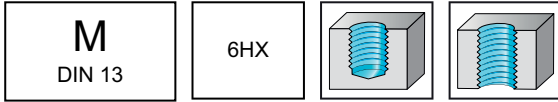
●● Primary application ● Other application

Solid carbide machine thread formers

TC470 Supreme

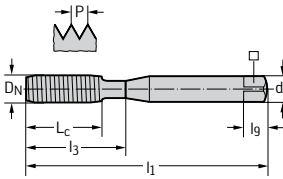


- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N	WG20EL
TC470-M3-C0-	M 3	0.5	56	10	10	3.5	2.7	6	4	☺
TC470-M4-C0-	M 4	0.7	63	13	13	4.5	3.4	6	5	☺
TC470-M5-C0-	M 5	0.8	70	16	16	6	4.9	8	5	☺
TC470-M6-C0-	M 6	1	80	10	30	6	4.9	8	5	☺
TC470-M8-C0-	M 8	1.25	90	12	35	8	6.2	9	6	☺
TC470-M10-C0-	M 10	1.5	100	15	39	10	8	11	7	☺

Parallel shank

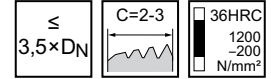
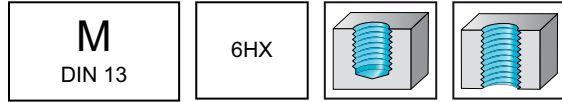
Ordering example for the grade WG20EL: TC470-M10-C0-WG20EL

Solid carbide machine thread formers

TC470 Supreme

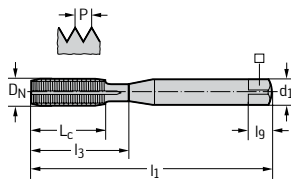


- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174											WG20EL
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N		
TC470-M4-C6-	M 4	0.7	63	13	13	4.5	3.4	6	5	☺	
TC470-M5-C6-	M 5	0.8	70	16	16	6	4.9	8	5	☺	
TC470-M6-C6-	M 6	1	80	10	30	6	4.9	8	5	☺	
TC470-M8-C6-	M 8	1.25	90	12	35	8	6.2	9	6	☺	
TC470-M10-C6-	M 10	1.5	100	15	39	10	8	11	7	☺	



Parallel shank

Ordering example for the grade WG20EL: TC470-M10-C6-WG20EL

C2

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ / ★

Solid carbide machine thread formers

TC470 Supreme



- For long-chipping materials

M
DIN 13

6HX

$\leq 3,5 \times D_N$

$C=2-3$

36HRC
1200
-200
N/mm ²

	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174	Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h6 mm	□ mm	l_g mm	N	WG20EL
	TC470-M5-C5-	M 5	0.8	70	16	16	6	4.9	8	5	☺
	TC470-M6-C5-	M 6	1	80	10	30	6	4.9	8	5	☺
	TC470-M8-C5-	M 8	1.25	90	12	35	8	6.2	9	6	☺
	TC470-M10-C5-	M 10	1.5	100	15	39	10	8	11	7	☺

Ordering example for the grade WG20EL: TC470-M10-C5-WG20EL

WALTER SELECT

●● Primary application ● Other application

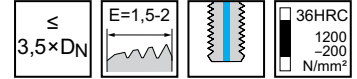
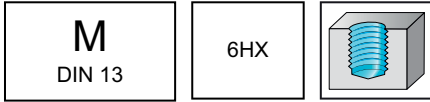
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide machine thread formers

TC470 Supreme

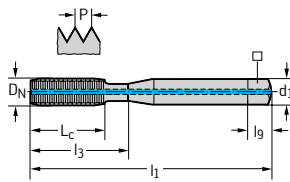


- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N	WG20EL
TC470-M6-CE-	M 6	1	80	10	30	6	4.9	8	5	☺
TC470-M8-CE-	M 8	1.25	90	12	35	8	6.2	9	6	☺
TC470-M10-CE-	M 10	1.5	100	15	39	10	8	11	7	☺

Ordering example for the grade WG20EL: TC470-M10-CE-WG20EL

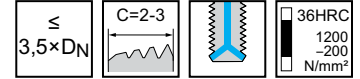
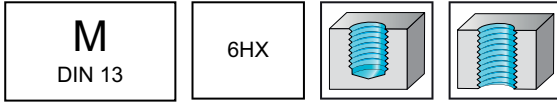
C2

Solid carbide machine thread formers

TC470 Supreme

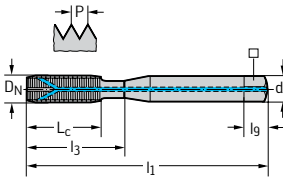


- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174											WG20EL
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N		
TC470-M6-C2-	M 6	1	80	10	30	6	4.9	8	5	☺	
TC470-M8-C2-	M 8	1.25	90	12	35	8	6.2	9	6	☺	
TC470-M10-C2-	M 10	1.5	100	15	39	10	8	11	7	☺	



Parallel shank

Ordering example for the grade WG20EL: TC470-M10-C2-WG20EL

C2

WALTER SELECT ●● Primary application ● Other application

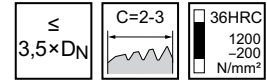
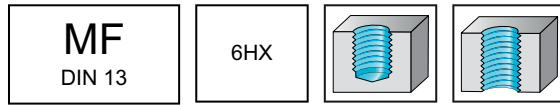
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

HSS-E machine thread formers

TC410 Advance

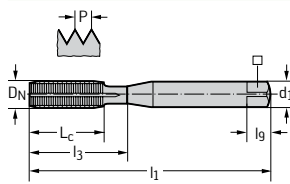


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●		

DIN 2174

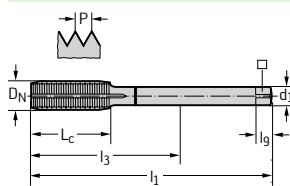


Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-M4X0,5-C6-	MF 4	0.5	63	12	21	4,5	3.4	6	5	☼
TC410-M5X0,5-C6-	MF 5	0.5	70	13	25	6	4.9	8	5	☼
TC410-M6X0,5-C6-	MF 6	0.5	80	15	30	6	4.9	8	5	☼
TC410-M6X0,75-C6-	MF 6	0.75	80	15	30	6	4.9	8	5	☼
TC410-M7X0,75-C6-	MF 7	0.75	80	15	30	7	5.5	8	5	☼

Parallel shank

Ordering example for the grade WY80AD: TC410-M4X0,5-C6-WY80AD

DIN 2174



Designation	DN	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-M8X0,5-L6-	MF 8	0.5	80	15	57	6	4.9	8	5	☼
TC410-M8X0,75-L6-	MF 8	0.75	80	15	57	6	4.9	8	5	☼
TC410-M8X1-L6-	MF 8	1	90	18	67	6	4.9	8	5	☼
TC410-M10X1-L6-	MF 10	1	90	20	67	7	5.5	8	6	☼
TC410-M10X1,25-L6-	MF 10	1.25	100	20	77	7	5.5	8	6	☼
TC410-M12X1-L6-	MF 12	1	100	21	73	9	7	10	6	☼
TC410-M12X1,25-L6-	MF 12	1.25	100	21	73	9	7	10	6	☼
TC410-M12X1,5-L6-	MF 12	1.5	100	21	73	9	7	10	6	☼
TC410-M14X1,5-L6-	MF 14	1.5	100	21	71	11	9	12	6	☼
TC410-M16X1,5-L6-	MF 16	1.5	100	21	58	12	9	12	6	☼
TC410-M18X1,5-L6-	MF 18	1.5	110	24	66	14	11	14	7	☼
TC410-M20X1,5-L6-	MF 20	1.5	125	24	80	16	12	15	7	☼
TC410-M20X2-L6-	MF 20	2	140	30	95	16	12	15	7	☼
TC410-M22X1,5-L6-	MF 22	1.5	125	24	78	18	14.5	17	7	☼
TC410-M24X1,5-L6-	MF 24	1.5	140	26	93	18	14.5	17	8	☼
TC410-M24X2-L6-	MF 24	2	140	26	93	18	14.5	17	8	☼
TC410-M27X1,5-L6-	MF 27	1.5	140	26	77	20	16	19	8	☼
TC410-M27X2-L6-	MF 27	2	140	26	77	20	16	19	8	☼
TC410-M30X1,5-L6-	MF 30	1.5	150	26	85	22	18	21	8	☼
TC410-M30X2-L6-	MF 30	2	150	26	85	22	18	21	8	☼

Parallel shank

Ordering example for the grade WY80AD: TC410-M10X1-L6-WY80AD

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC410 Advance



- For long-chipping materials

MF
DIN 13

6GX

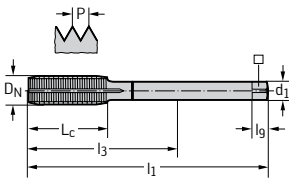


$\leq 3,5 \times DN$

$E=1,5-2$

36HRC
1200
-200
N/mm²

	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●	●	●●	●		

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N		
	TC410-M10X1-NE-	MF 10	1	90	20	67	7	5.5	8	6	☹
	TC410-M12X1,5-NE-	MF 12	1.5	100	21	73	9	7	10	6	☹
	TC410-M14X1,5-NE-	MF 14	1.5	100	21	71	11	9	12	7	☹
	TC410-M16X1,5-NE-	MF 16	1.5	100	21	58	12	9	12	7	☹

Parallel shank

Ordering example for the grade WY80AD: TC410-M10X1-NE-WY80AD

C2

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

☹ ☹ ☹ / ★ = New addition to the product range

HSS-E-PM machine thread formers

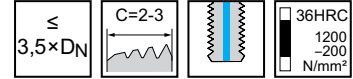
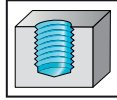
TC420 Supreme



- For long-chipping materials

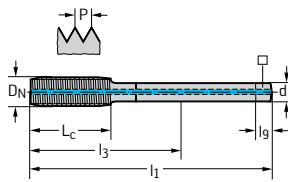
MF
DIN 13

6HX



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●●	●●	●		

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _q mm	N	WW60AD
TC420-M8X1-L1-	MF 8	1	90	12	67	6	4.9	8	5	☹
TC420-M10X1-L1-	MF 10	1	90	12	67	7	5.5	8	6	☹
TC420-M12X1,5-L1-	MF 12	1.5	100	13	73	9	7	10	6	☹
TC420-M14X1,5-L1-	MF 14	1.5	100	15	71	11	9	12	6	☹

Parallel shank

Ordering example for the grade WW60AD: TC420-M10X1-L1-WW60AD

C2

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials

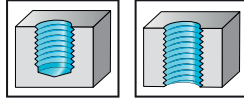
$\leq 3,5 \times D_N$

$C=2-3$

36HRC
 1200
 -200
 N/mm²

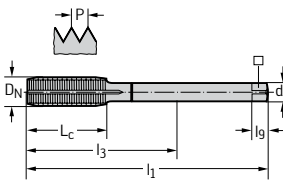
MF
DIN 13

6HX



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M8X1-L6-	MF 8	1	90	12	67	6	4.9	8	5	☼	☼
TC420-M10X1-L6-	MF 10	1	90	12	67	7	5.5	8	6	☼	☼
TC420-M12X1-L6-	MF 12	1	100	13	73	9	7	10	6	☼	☼
TC420-M12X1,5-L6-	MF 12	1.5	100	13	73	9	7	10	6	☼	☼
TC420-M14X1-L6-	MF 14	1	100	15	71	11	9	12	6	☼	
TC420-M14X1,5-L6-	MF 14	1.5	100	15	71	11	9	12	6	☼	☼
TC420-M16X1,5-L6-	MF 16	1.5	100	15	58	12	9	12	6	☼	☼

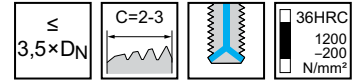
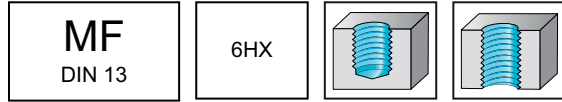
Ordering example for the grade WW60AD: TC420-M10X1-L6-WW60AD

HSS-E-PM machine thread formers

TC420 Supreme

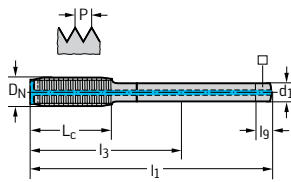


- For long-chipping materials



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174											WW60AD	WW60BA
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N			
TC420-M8X1-L2-	MF 8	1	90	12	67	6	4.9	8	5	●●	●●	
TC420-M10X1-L2-	MF 10	1	90	12	67	7	5.5	8	6	●●	●●	
TC420-M12X1-L2-	MF 12	1	100	13	73	9	7	10	6	●●	●●	
TC420-M12X1,5-L2-	MF 12	1.5	100	13	73	9	7	10	6	●●	●●	
TC420-M14X1,5-L2-	MF 14	1.5	100	15	71	11	9	12	6	●●	●●	
TC420-M16X1,5-L2-	MF 16	1.5	100	15	58	12	9	12	6	●●	●●	



Parallel shank

Ordering example for the grade WW60AD: TC420-M10X1-L2-WW60AD

C2

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme



- For long-chipping materials

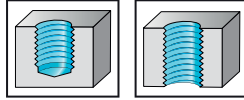
$\leq 3,5 \times D_N$

$C=2-3$

36HRC
 1200
 -200
 N/mm²

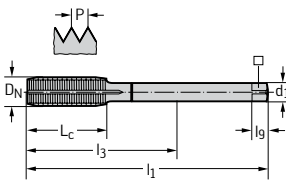
MF
DIN 13

6GX



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●●	●	●●	●		
WW60BA (TiCN)	●●	●●	●	●●	●		

DIN 2174



Parallel shank

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60BA
TC420-M8X1-N6-	MF 8	1	90	12	67	6	4.9	8	5	☼	☼
TC420-M10X1-N6-	MF 10	1	90	12	67	7	5.5	8	6	☼	☼
TC420-M12X1-N6-	MF 12	1	100	13	73	9	7	10	6	☼	☼
TC420-M12X1,5-N6-	MF 12	1.5	100	13	73	9	7	10	6	☼	
TC420-M14X1,5-N6-	MF 14	1.5	100	15	71	11	9	12	6	☼	☼
TC420-M16X1,5-N6-	MF 16	1.5	100	15	58	12	9	12	6	☼	☼

Ordering example for the grade WW60AD: TC420-M10X1-N6-WW60AD

C2

HSS-E machine thread formers

Protodyn® S Synchrospeed mm



- For long-chipping materials
- Only for synchronous machining (rigid tapping)

\leq
3,5×DN

C=2-3

36HRC
 1200
 N/mm²

MF
DIN 13

6HX

P	M	K	N	S	H	O
TIN	●●	●●	●●	●		

~DIN 2174	Designation TIN	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N
	S2166305-M8X1	MF 8	1	90	6	35	8	6.2	9	5
	S2166305-M10X1	MF 10	1	90	6	39	10	8	11	5

Parallel shank

C2

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil

$\leq 3,5 \times D_N$

$C=2-3$

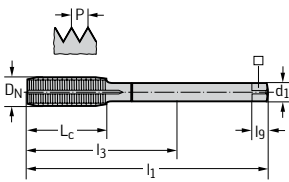
36HRC
 1200
 -200
 N/mm²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●			
WW60EL (AlCrN)	●●	●	●	●			

DIN 2174											WW60AD	WW60EL
Designation	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	\square mm	l_9 mm	N			
TC430-M8X1-L6-	MF 8	1	90	12	67	6	4.9	8	6	☼	☼	
TC430-M10X1-L6-	MF 10	1	90	12	67	7	5.5	8	7		☼	
TC430-M10X1,25-L6-	MF 10	1.25	100	15	77	7	5.5	8	7	☼	☼	
TC430-M12X1,25-L6-	MF 12	1.25	100	13	73	9	7	10	8	☼	☼	
TC430-M12X1,5-L6-	MF 12	1.5	100	13	73	9	7	10	8		☼	
TC430-M14X1,5-L6-	MF 14	1.5	100	15	71	11	9	12	8		☼	
TC430-M16X1,5-L6-	MF 16	1.5	100	15	58	12	9	12	8	☼	☼	



Parallel shank

Ordering example for the grade WW60EL: TC430-M10X1-L6-WW60EL

C2

WALTER SELECT

●● Primary application ● Other application

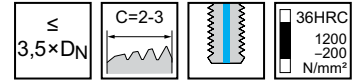
Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E-PM machine thread formers

TC430 Supreme

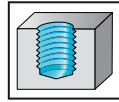


- For long-chipping materials
- ISO M only with oil



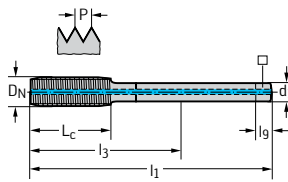
MF
DIN 13

6HX



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●	●		
WW60EL (AlCrN)	●●	●	●	●	●		

DIN 2174



Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N	WW60AD	WW60EL
TC430-M12X1,25-L1-	MF 12	1.25	100	13	73	9	7	10	8	☼	☼
TC430-M12X1,5-L1-	MF 12	1.5	100	13	73	9	7	10	8	☼	
TC430-M14X1,5-L1-	MF 14	1.5	100	15	71	11	9	12	8	☼	
TC430-M16X1,5-L1-	MF 16	1.5	100	15	58	12	9	12	8	☼	☼

Parallel shank

Ordering example for the grade WW60AD: TC430-M12X1,25-L1-WW60AD

C2

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

HSS-E-PM machine thread formers

TC430 Supreme



- For long-chipping materials
- ISO M only with oil

$\leq 3,5 \times D_N$

$C=2-3$

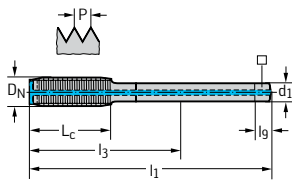
36HRC
1200
-200
N/mm ²

MF
DIN 13

6HX

	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●			
WW60EL (AlCrN)	●●	●	●	●			

DIN 2174												WW60AD	WW60EL
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N			WW60AD	WW60EL
TC430-M8X1-L2-	MF 8	1	90	12	67	6	4.9	8	6			☹	☹
TC430-M10X1-L2-	MF 10	1	90	12	67	7	5.5	8	7			☹	☹
TC430-M10X1,25-L2-	MF 10	1.25	100	15	77	7	5.5	8	7			☹	☹
TC430-M12X1-L2-	MF 12	1	100	13	73	9	7	10	8				☹
TC430-M12X1,25-L2-	MF 12	1.25	100	13	73	9	7	10	8			☹	☹
TC430-M12X1,5-L2-	MF 12	1.5	100	13	73	9	7	10	8			☹	☹
TC430-M14X1,5-L2-	MF 14	1.5	100	15	71	11	9	12	8			☹	☹
TC430-M16X1,5-L2-	MF 16	1.5	100	15	58	12	9	12	8			☹	☹



Parallel shank

Ordering example for the grade WW60AD: TC430-M10X1-L2-WW60AD

C2

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

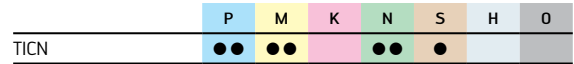
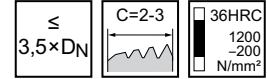
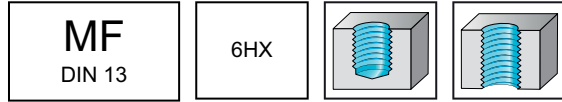
HSS-E machine thread formers

Protodyn® SF

mm



- For long-chipping materials



DIN 2174		Designation TICN	D_N	P mm	l_1 mm	L_c mm	l_3 mm	d_1 h9 mm	l_g mm	N
<p>Parallel shank</p>	D7166706-M8X1	MF 8	1	90	18	67	6	4.9	8	5
	D7166706-M10X1	MF 10	1	90	20	67	7	5.5	8	5
	D7166706-M10X1,25	MF 10	1.25	100	20	77	7	5.5	8	5
	D7166706-M12X1	MF 12	1	100	21	73	9	7	10	5
	D7166706-M12X1,5	MF 12	1.5	100	21	73	9	7	10	5
	D7166706-M14X1,5	MF 14	1.5	100	21	71	11	9	12	6
	D7166706-M16X1,5	MF 16	1.5	100	21	58	12	9	12	6

C2

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

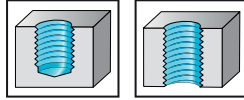
TC440 Supreme



- For long-chipping materials
- For stainless steels when using emulsion

MF
DIN 13

6HX



$\leq 3,5 \times D_N$

$C=2-3$

32HRC
1000
-200
N/mm²

	P	M	K	N	S	H	O
WY80AD (TiN)	●	●●	●	●	●	●	●

DIN 2174											WY80AD
Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N		
	TC440-M8X1-L2-	MF 8	1	90	12	67	6	4.9	8	5	☹
	TC440-M10X1-L2-	MF 10	1	90	12	67	7	5.5	8	5	☹
	TC440-M12X1,5-L2-	MF 12	1.5	100	13	73	9	7	10	5	☹
	TC440-M14X1,5-L2-	MF 14	1.5	100	15	58	11	9	12	6	☹
	TC440-M16X1,5-L2-	MF 16	1.5	100	15	58	12	9	12	6	☹
Parallel shank	TC440-M18X1,5-L2-	MF 18	1.5	110	17	66	14	11	14	6	☹

Ordering example for the grade WY80AD: TC440-M10X1-L2-WY80AD

WALTER SELECT

●● Primary application ● Other application

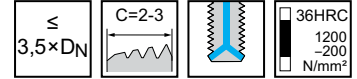
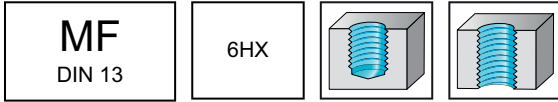
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide machine thread formers

TC470 Supreme



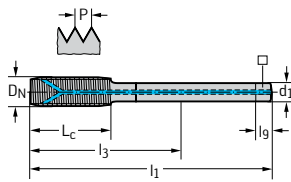
- For long-chipping materials



	P	M	K	N	S	H	O
WG20EL (AlCrN)	●●		●	●			

DIN 2174

Designation	D _N	P mm	l ₁ mm	L _c mm	l ₃ mm	d ₁ h6 mm	□ mm	l _g mm	N	WG20EL
TC470-M16X1,5-L2-	MF 16	1.5	100	15	58	12	9	12	8	●●



Parallel shank

Ordering example for the grade WG20EL: TC470-M16X1,5-L2-WG20EL

C2

WALTER SELECT ●● Primary application ● Other application

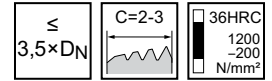
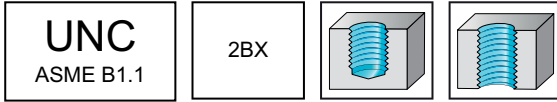
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC410 Advance mm

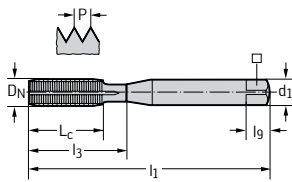


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●		

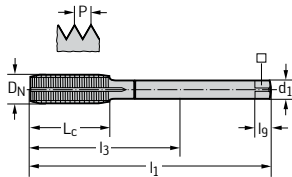
DIN 2184-1												WY80AD
Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-UNC2-C6-	UNC #2-56	2.184	56	45	7	12	2.8	2.1	5	3	☸	
TC410-UNC4-C6-	UNC #4-40	2.845	40	56	9	18	3.5	2.7	6	3	☸	
TC410-UNC6-C6-	UNC #6-32	3.505	32	56	11	20	4	3	6	4	☸	
TC410-UNC8-C6-	UNC #8-32	4.166	32	63	12	21	4.5	3.4	6	5	☸	
TC410-UNC10-C6-	UNC #10-24	4.826	24	70	13	25	6	4.9	8	5	☸	
TC410-UNC1/4-C6-	UNC 1/4-20	6.35	20	80	15	30	7	5.5	8	5	☸	
TC410-UNC5/16-C6-	UNC 5/16-18	7.938	18	90	18	35	8	6.2	9	5	☸	
TC410-UNC3/8-C6-	UNC 3/8-16	9.525	16	100	20	39	10	8	11	5	☸	



Parallel shank

Ordering example for the grade WY80AD: TC410-UNC1/4-C6-WY80AD

DIN 2184-1												WY80AD
Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N		
TC410-UNC7/16-L6-	UNC 7/16-14	11.113	14	100	20	76	8	6.2	9	6	☸	
TC410-UNC1/2-L6-	UNC 1/2-13	12.7	13	110	23	83	9	7	10	6	☸	
TC410-UNC5/8-L6-	UNC 5/8-11	15.875	11	110	25	68	12	9	12	6	☸	



Parallel shank

Ordering example for the grade WY80AD: TC410-UNC1/2-L6-WY80AD

WALTER SELECT ●● Primary application ● Other application

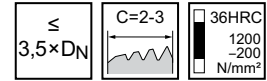
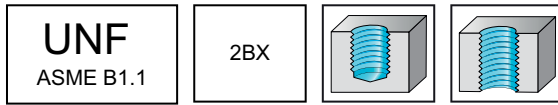
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine thread formers

TC410 Advance

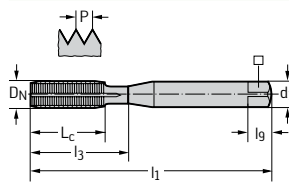


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN 2184-1

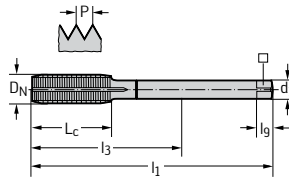


Parallel shank

Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-UNF2-C6-	UNF #2-64	2.184	64	45	7	12	2.8	2.1	5	3	●●
TC410-UNF4-C6-	UNF #4-48	2.845	48	56	9	18	3.5	2.7	6	3	●●
TC410-UNF6-C6-	UNF #6-40	3.505	40	56	11	20	4	3	6	4	●●
TC410-UNF8-C6-	UNF #8-36	4.166	36	63	12	21	4.5	3.4	6	5	●●
TC410-UNF10-C6-	UNF #10-32	4.826	32	70	13	25	6	4.9	8	5	●●
TC410-UNF1/4-C6-	UNF 1/4-28	6.35	28	80	15	30	7	5.5	8	5	●●
TC410-UNF5/16-C6-	UNF 5/16-24	7.938	24	90	18	35	8	6.2	9	5	●●
TC410-UNF3/8-C6-	UNF 3/8-24	9.525	24	90	20	39	10	8	11	5	●●

Ordering example for the grade WY80AD: TC410-UNF1/4-C6-WY80AD

DIN 2184-1



Parallel shank

Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l _g mm	N	WY80AD
TC410-UNF7/16-L6-	UNF 7/16-20	11.113	20	100	20	76	8	6.2	9	6	●●
TC410-UNF1/2-L6-	UNF 1/2-20	12.7	20	100	21	73	9	7	10	6	●●
TC410-UNF5/8-L6-	UNF 5/8-18	15.875	18	100	21	58	12	9	12	6	●●

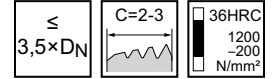
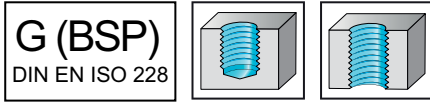
Ordering example for the grade WY80AD: TC410-UNF1/2-L6-WY80AD

HSS-E machine thread formers

TC410 Advance

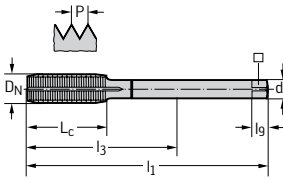


- For long-chipping materials



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●●	●●	●		

DIN 2189												WY80AD
Designation	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	mm	l ₉ mm	N		
TC410-G1/8-N6-	G 1/8-28	9.728	28	90	20	67	7	5.5	8	5	☹	
TC410-G1/4-N6-	G 1/4-19	13.157	19	100	21	71	11	9	12	6	☹	
TC410-G3/8-N6-	G 3/8-19	16.662	19	100	21	58	12	9	12	6	☹	
TC410-G1/2-N6-	G 1/2-14	20.955	14	125	24	80	16	12	15	7	☹	
TC410-G3/4-N6-	G 3/4-14	26.441	14	140	26	77	20	16	19	8	☹	
TC410-G1-N6-	G 1"-11	33.249	11	160	28	93	25	20	23	8	☹	



Parallel shank

Ordering example for the grade WY80AD: TC410-G1-N6-WY80AD

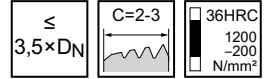
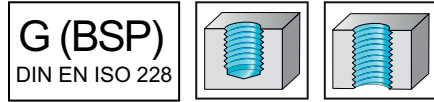
C2

HSS-E machine thread formers

Protodyn® SF



- For long-chipping materials



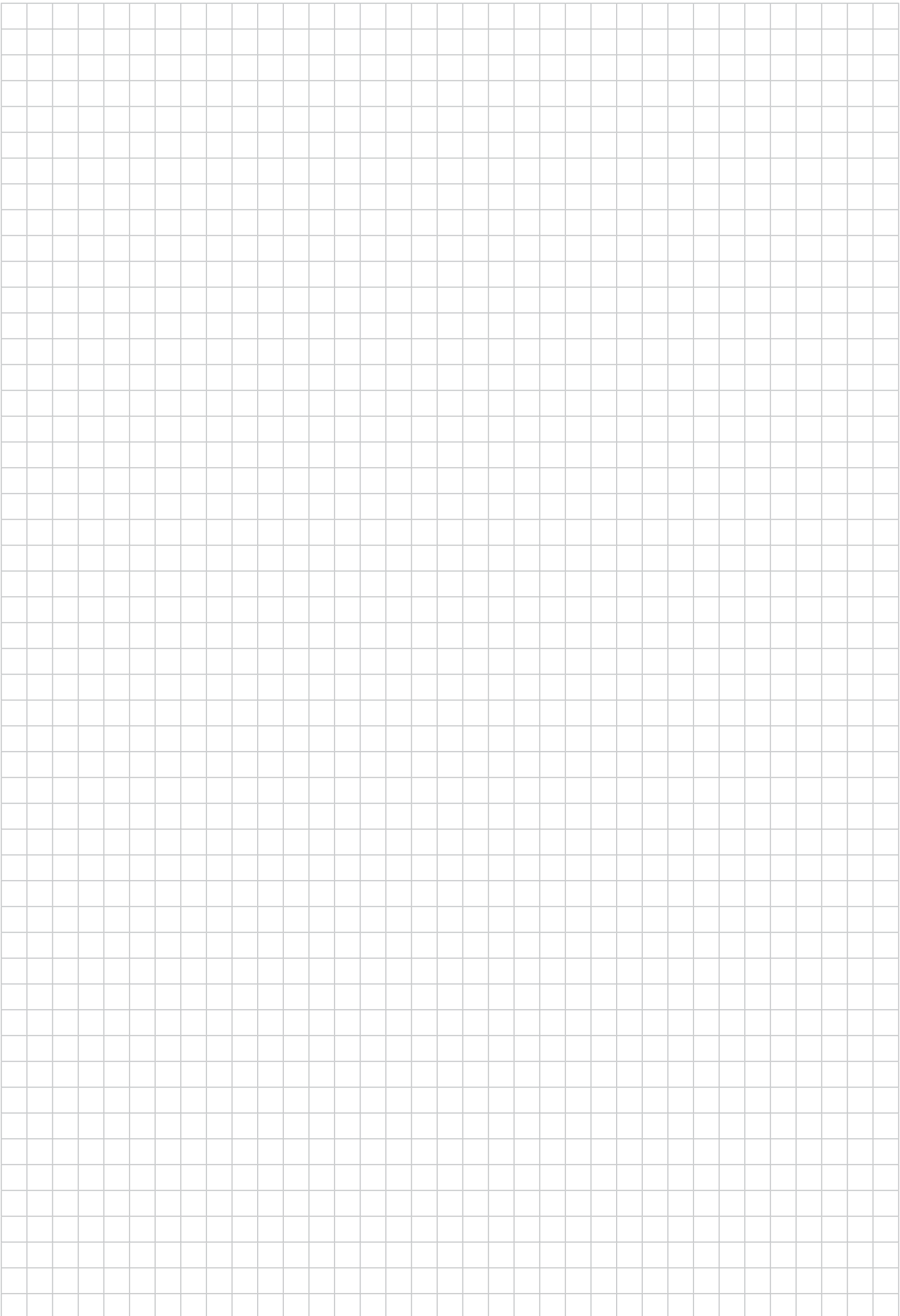
TICN	P	M	K	N	S	H	O
	●●	●●	●●	●●	●		

DIN 2189	Designation TICN	D _N -P	D _N mm	Threads per inch	l ₁ mm	L _c mm	l ₃ mm	d ₁ h9 mm	□ mm	l ₉ mm	N
	D7466706-G1/8	G 1/8-28	9.728	28	90	20	67	7	5.5	8	5
	D7466706-G1/4	G 1/4-19	13.157	19	100	21	71	11	9	12	6
	D7466706-G3/8	G 3/8-19	16.662	19	100	21	58	12	9	12	6
	D7466706-G1/2	G 1/2-14	20.955	14	125	24	80	16	12	15	7

C2

WALTER SELECT ●● Primary application ● Other application

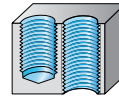
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions



C2

Thread milling cutters without countersink

Machining



Thread depth	1.5 x D _N	1.5 x D _N	1.5 x D _N	2 x D _N	2 x D _N
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NEW



Designation	TC610 Supreme	TMG HRC	TMG Ni	TC611 Supreme	TC620 Supreme
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Thread type

M	✓	✓		✓	✓
MF	✓	✓		✓	✓
UNC / UNF / UN-8	✓			✓	✓
G / Rc / Rp	✓				✓
MJ / UNJC / UNJF			✓		✓
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert	✓	✓	✓	✓	✓

Additional services					
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Coolant supply	External / axial	External	External / axial	External / axial	axial
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Coating / grade	WB10RD / WJ30RC	TAX	TICN	WB10RD / WJ30RC	WB10TJ
-----------------	-----------------	-----	------	-----------------	--------

Cutting tool material	VHM	VHM	VHM	VHM	VHM
-----------------------	-----	-----	-----	-----	-----

P Steel	●●	●●	●●	●●	●●
M Stainless steel	●●	●●	●●	●●	●●
K Cast iron	●●	●●	●●	●●	●●
N NF metals	●●	●●	●	●●	●●
S Materials with difficult cutting properties	●●	●	●●	●●	●●
H Hard materials		●●			
O Other	●	●	●	●	●

Page in catalog	C 390	C 403	C 420	C 394	C 392
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QR code					
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www.walter-tools.com/woc/	TC610	tmg-hrc	tmg-ni	TC611	TC620
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WALTER SELECT

●● Primary application ● Other application

Thread milling cutters without countersink

Machining			
Thread depth	2 x D _N	2.5 x D _N	3 x D _N

NEW

NEW



Designation	TME	TC620 Supreme	TC620 Supreme	TMG
Thread type				
M	✓	✓	✓	
MF	✓	✓	✓	
UNC / UNF / UN-8		✓		
G / Rc / Rp				
MJ / UNJC / UNJF				
NPT / NPTF				✓
Pg / BSW / Tr				
STI / Eg / thread insert	✓	✓	✓	
Additional services				
Coolant supply	External	axial	axial	External
Coating / grade	TICN	WB10TJ	WB10TJ	TICN
Cutting tool material	VHM	VHM	VHM	VHM
P Steel	●●	●●	●●	●●
M Stainless steel	●●	●●	●●	●●
K Cast iron	●●	●●	●●	●●
N NF metals	●●	●●	●●	●●
S Materials with difficult cutting properties	●●	●●	●●	●●
H Hard materials				
O Other	●	●	●	●
Page in catalog	C 405	C 396	C 398	C 427
QR code				
www.walter-tools.com/woc/	tme	TC620	TC620	tmg

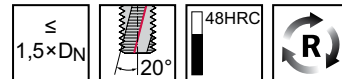
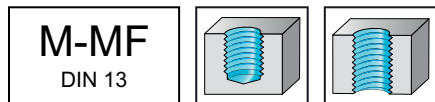
C3

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
	TC610-M6-W0-	M 6	1	4.5	9	57	21	6	4	☺
	TC610-M8-W0-	M 8	1.25	6	12.5	57	21	6	4	☺
	TC610-M10-W0-	M 10	1.5	7.5	15	63	27	8	4	☺
	TC610-M12-W0-	M 12	1.75	9.5	19.3	72	32	10	4	☺
	TC610-M14-W0-	M 14	2	10	22	72	32	10	4	☺
	TC610-M16-W0-	M 16	2	12	24	83	38	12	5	☺
	TC610-M20-W0-	M 20	2.5	16	30	92	44	16	6	☺
	TC610-M24-W0-	M 24	3	19	36	104	54	20	6	☺

Ordering example for the grade WJ30RC: TC610-M10-W0-WJ30RC

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

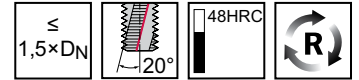
●● Primary application ● Other application

Solid carbide thread milling cutters

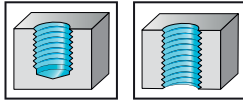
TC610 Supreme



- Universal thread milling cutters



M-MF
DIN 13



	P	M	K	N	S	H	O
WB10RD (TAZ)	●●	●●	●●	●●	●●		●
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D_N	P mm	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WB10RD	WJ30RC
	TC610-M6-W1-	M 6	1	4.5	9	57	21	6	4	☺	☺
	TC610-M8-W1-	M 8	1.25	6	12.5	57	21	6	4	☺	☺
	TC610-M10-W1-	M 10	1.5	7.5	15	63	27	8	4	☺	☺
	TC610-M12-W1-	M 12	1.75	9.5	19.3	72	32	10	4	☺	☺
	TC610-M14-W1-	M 14	2	10	22	72	32	10	4		☺
	TC610-M16-W1-	M 16	2	12	24	83	38	12	5	☺	☺
	TC610-M20-W1-	M 20	2.5	16	30	92	44	16	6		☺
	TC610-M24-W1-	M 24	3	19	36	104	54	20	6		☺

Ordering example for the grade WB10RD: TC610-M10-W1-WB10RD

C3

WALTER SELECT ●● Primary application ● Other application

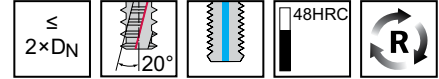
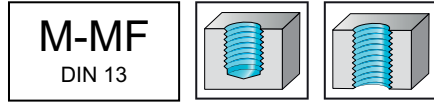
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC620-M4-A1D-	M 4	0.7	3.1	1.4	8.4	21	57	6	3	☺
	TC620-M5-A1D-	M 5	0.8	3.9	1.6	10.4	21	57	6	3	☺
	TC620-M6-A1D-	M 6	1	4.7	2	12	21	57	6	4	☺
	TC620-M8-A1D-	M 8	1.25	6.3	2.5	16.3	27	63	8	4	☺
	TC620-M10-A1D-	M 10	1.5	7.9	3	21	27	63	8	4	☺
	TC620-M12-A1D-	M 12	1.75	9.6	3.5	24.5	32	72	10	4	☺
	TC620-M14-A1D-	M 14	2	11.2	4	28	38	83	12	4	☺
	TC620-M16-A1D-	M 16	2	13.1	4	32	44	92	16	5	☺
	TC620-M20-A1D-	M 20	2.5	16.4	5	40	58	106	18	5	☺

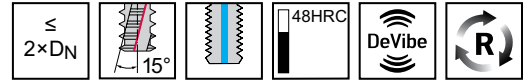
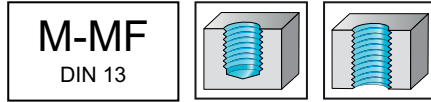
Ordering example for the grade WB10TJ: TC620-M10-A1D-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	l _{z1} mm	L _c mm	l _k mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HB</p>	★ TC620-M4-W5D-	M 4	0.7	3.1	1.4	8	21	57	6	3	☹
	★ TC620-M5-W5D-	M 5	0.8	3.9	1.6	10	21	57	6	3	☹
	★ TC620-M6-W5D-	M 6	1	4.7	2	12	21	57	6	4	☹
	TC620-M8-W5D-	M 8	1.25	6.3	2.5	16.3	27	63	8	4	☹
	TC620-M10-W5D-	M 10	1.5	7.9	3	21	32	68	8	4	☹
	TC620-M12-W5D-	M 12	1.75	9.6	3.5	24.5	38	78	10	4	☹
	TC620-M14-W5D-	M 14	2	11.2	4	28	45	90	12	4	☹
	TC620-M16-W5D-	M 16	2	13.1	4	32	44	92	16	5	☹
	TC620-M18-W5D-	M 18	2.5	14.5	5	37.5	52	100	16	5	☹
	TC620-M20-W5D-	M 20	2.5	16.4	5	40	57	105	18	5	☹

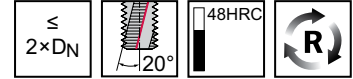
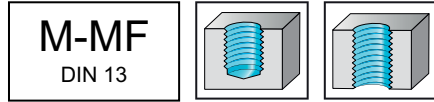
Ordering example for the grade WB10TJ: TC620-M10-W5D-WB10TJ

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D_N	P mm	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC611-M6-W0-	M 6	1	4.5	12	57	21	6	4	☺
	TC611-M8-W0-	M 8	1.25	6	16.3	57	21	6	4	☺
	TC611-M10-W0-	M 10	1.5	7.5	21	63	27	8	4	☺
	TC611-M12-W0-	M 12	1.75	9.5	24.5	72	32	10	4	☺
	TC611-M14-W0-	M 14	2	10	28	80	40	10	4	☺
	TC611-M16-W0-	M 16	2	12	32	89	44	12	5	☺
	TC611-M20-W0-	M 20	2.5	16	40	105	57	16	6	☺
	TC611-M24-W0-	M 24	3	19	48	118	68	20	6	☺

Ordering example for the grade WJ30RC: TC611-M10-W0-WJ30RC

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

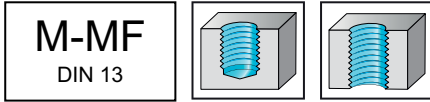
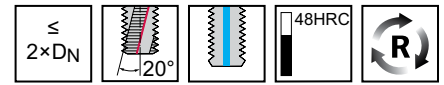
●● Primary application ● Other application

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WB10RD (TAZ)	●●	●●	●●	●●	●●		●
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RD	WJ30RC
	TC611-M6-W1-	M 6	1	4.5	12	57	21	6	4	☺	☺
	TC611-M8-W1-	M 8	1.25	6	16.3	57	21	6	4	☺	☺
	TC611-M10-W1-	M 10	1.5	7.5	21	63	27	8	4	☺	☺
	TC611-M12-W1-	M 12	1.75	9.5	24.5	72	32	10	4	☺	☺
	TC611-M14-W1-	M 14	2	10	28	80	40	10	4		☺
	TC611-M16-W1-	M 16	2	12	32	89	44	12	5	☺	☺
	TC611-M20-W1-	M 20	2.5	16	40	105	57	16	6	☺	☺
	TC611-M24-W1-	M 24	3	19	48	118	68	20	6		☺

Ordering example for the grade WB10RD: TC611-M10-W1-WB10RD

C3

WALTER SELECT ●● Primary application ● Other application

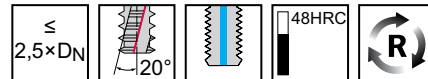
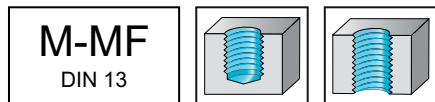
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC620-M4-A1E-	M 4	0.7	3.1	2.1	10.5	21	57	6	3	☺
	TC620-M5-A1E-	M 5	0.8	3.9	2.4	12.8	21	57	6	3	☺
	TC620-M6-A1E-	M 6	1	4.7	3	15	21	57	6	4	☺
	TC620-M8-A1E-	M 8	1.25	6.3	3.75	20	27	63	8	4	☺
	TC620-M10-A1E-	M 10	1.5	7.9	4.5	27	36	72	8	4	☺
	TC620-M12-A1E-	M 12	1.75	9.6	5.25	31.5	43	83	10	4	☺
	TC620-M14-A1E-	M 14	2	11.2	6	36	55	100	12	4	☺
	TC620-M16-A1E-	M 16	2	13.1	6	42	58	106	16	5	☺
	TC620-M20-A1E-	M 20	2.5	16.4	7.5	52.5	68	116	18	5	☺

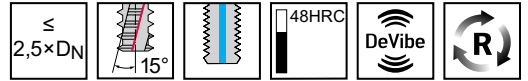
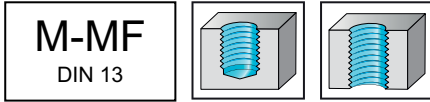
Ordering example for the grade WB10TJ: TC620-M10-A1E-WB10TJ

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AITiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	l _{z1} mm	L _c mm	l _k mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HB</p>	★ TC620-M4-W5E-	M 4	0.7	3.1	2.1	10	21	57	6	3	☹
	★ TC620-M5-W5E-	M 5	0.8	3.9	2.4	12.5	21	57	6	3	☹
	★ TC620-M6-W5E-	M 6	1	4.7	3	15	21	57	6	4	☹
	TC620-M8-W5E-	M 8	1.25	6.3	3.75	20	32	68	8	4	☹
	TC620-M10-W5E-	M 10	1.5	7.9	4.5	27	39	75	8	4	☹
	TC620-M12-W5E-	M 12	1.75	9.6	5.25	31.5	45	85	10	4	☹
	TC620-M14-W5E-	M 14	2	11.2	6	36	55	100	12	4	☹
	TC620-M16-W5E-	M 16	2	13.1	6	42	58	106	16	5	☹
	TC620-M18-W5E-	M 18	2.5	14.5	7.5	45	60	108	16	5	☹
	TC620-M20-W5E-	M 20	2.5	16.4	7.5	52.5	67	115	18	5	☹

Ordering example for the grade WB10TJ: TC620-M10-W5E-WB10TJ

C3

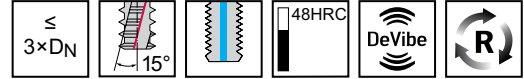
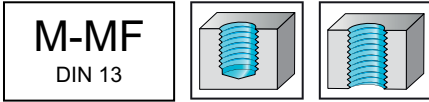
WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme

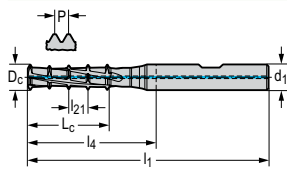


- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool



DIN 6535 HB

Designation	D _N	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
★ TC620-M4-W5F-	M 4	0.7	3.1	2.8	13.4	21	57	6	3	☹️
★ TC620-M5-W5F-	M 5	0.8	3.9	3.2	16	21	57	6	3	☹️
★ TC620-M6-W5F-	M 6	1	4.7	4	19.3	29	62	6	4	☹️
★ TC620-M8-W5F-	M 8	1.25	6.3	5	25.6	46	71	8	4	☹️
★ TC620-M10-W5F-	M 10	1.5	7.9	6	31.8	47	78	8	4	☹️
★ TC620-M12-W5F-	M 12	1.75	9.6	7	39.4	47	88	10	4	☹️
★ TC620-M14-W5F-	M 14	2	11.2	8	45.8	60	101	12	4	☹️
★ TC620-M16-W5F-	M 16	2	13.1	8	50.3	62	116	16	5	☹️
★ TC620-M18-W5F-	M 18	2.5	14.5	10	56.8	72	116	16	5	☹️
★ TC620-M20-W5F-	M 20	2.5	16.4	10	62.8	77	130	18	5	☹️

Ordering example for the grade WB10TJ: TC620-M10-W5F-WB10TJ

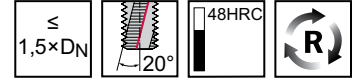
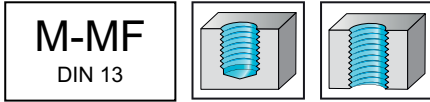
C3

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC610-M6X0,5-W0-	MF 6	0.5	4.8	9	57	21	6	5	☺
	TC610-M8X0,75-W0-	MF 8	0.75	6	12	57	21	6	5	☺
	TC610-M8X1-W0-	MF 8	1	6	12	57	21	6	4	☺
	TC610-M10X0,5-W0-	MF 10	0.5	8	15	63	27	8	7	☺
	TC610-M10X1-W0-	MF 10	1	8	15	63	27	8	5	☺
	TC610-M12X1-W0-	MF 12	1	10	18	72	32	10	6	☺
	TC610-M12X1,25-W0-	MF 12	1.25	10	18.8	72	32	10	6	☺
	TC610-M12X1,5-W0-	MF 12	1.5	10	18	72	32	10	5	☺
	TC610-M14X1-W0-	MF 14	1	12	21	83	38	12	7	☺
	TC610-M14X1,5-W0-	MF 14	1.5	12	21	83	38	12	6	☺
	TC610-M16X1-W0-	MF 16	1	14	24	83	38	14	7	☺
	TC610-M16X1,5-W0-	MF 16	1.5	14	24	83	38	14	6	☺
	TC610-M18X1-W0-	MF 18	1	16	27	92	44	16	8	☺
	TC610-M18X1,5-W0-	MF 18	1.5	16	27	92	44	16	7	☺
	TC610-M20X2-W0-	MF 20	2	16	30	92	44	16	6	☺
	TC610-M24X2-W0-	MF 24	2	20	36	104	54	20	7	☺

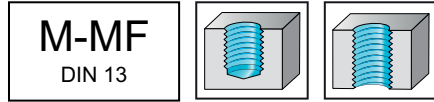
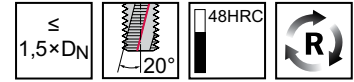
Ordering example for the grade WJ30RC: TC610-M10X0,5-W0-WJ30RC

Solid carbide thread milling cutters

TC610 Supreme



- Universal thread milling cutters



	P	M	K	N	S	H	O
WB10RD (TAZ)	●●	●●	●●	●●	●●		●
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D_N	P mm	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	Material Hardness	
										WJ30RC	WB10RD
<p>DIN 6535 HB</p>	TC610-M6X0,5-W1-	MF 6	0.5	4.8	9	57	21	6	5	●●	
	TC610-M8X0,75-W1-	MF 8	0.75	6	12	57	21	6	5	●●	●●
	TC610-M8X1-W1-	MF 8	1	6	12	57	21	6	4	●●	
	TC610-M10X0,5-W1-	MF 10	0.5	8	15	63	27	8	7	●●	
	TC610-M10X1-W1-	MF 10	1	8	15	63	27	8	5	●●	●●
	TC610-M12X1-W1-	MF 12	1	10	18	72	32	10	6	●●	●●
	TC610-M12X1,25-W1-	MF 12	1.25	10	18.8	72	32	10	6	●●	
	TC610-M12X1,5-W1-	MF 12	1.5	10	18	72	32	10	5	●●	●●
	TC610-M14X1-W1-	MF 14	1	12	21	83	38	12	7	●●	●●
	TC610-M14X1,5-W1-	MF 14	1.5	12	21	83	38	12	6	●●	●●
	TC610-M16X1-W1-	MF 16	1	14	24	83	38	14	7	●●	
	TC610-M16X1,5-W1-	MF 16	1.5	14	24	83	38	14	6	●●	●●
	TC610-M18X1-W1-	MF 18	1	16	27	92	44	16	8	●●	
	TC610-M18X1,5-W1-	MF 18	1.5	16	27	92	44	16	7	●●	●●
	TC610-M20X2-W1-	MF 20	2	16	30	92	44	16	6	●●	●●
	TC610-M24X2-W1-	MF 24	2	20	36	104	54	20	7	●●	

Ordering example for the grade WJ30RC: TC610-M10X0,5-W1-WJ30RC

C3

WALTER SELECT

●● Primary application ● Other application

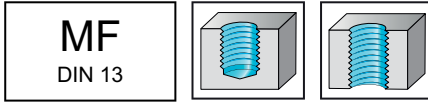
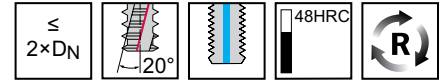
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	l _{z1} mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
		TC620-M4X0,5-W1D-	MF 4	0.5	3.2	1	8	21	57	6	4	☺
		TC620-M6X0,75-W1D-	MF 6	0.75	4.9	1.5	12	21	57	6	4	☺

DIN 6535 HB

Ordering example for the grade WB10TJ: TC620-M4X0,5-W1D-WB10TJ

C3

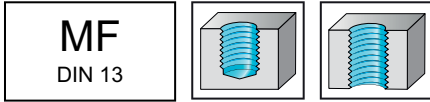
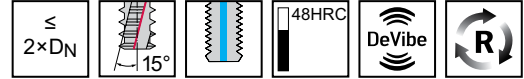
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme

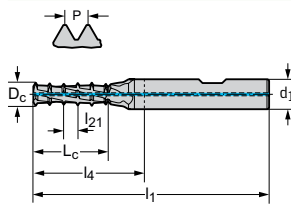


- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool



DIN 6535 HB

Designation	D _N	P mm	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
★ TC620-M4X0,5-W5D-	MF 4	0.5	3.2	1	8	21	57	6	4	☹
★ TC620-M6X0,75-W5D-	MF 6	0.75	4.9	1.5	12	21	57	6	4	☹
TC620-M8X1-W5D-	MF 8	1	6.5	2	16	27	63	8	4	☹
TC620-M10X1,25W5D-	M10	1.25	8.2	2.5	20	32	72	10	5	☹
TC620-M10X1-W5D-	MF 10	1	8.4	2	20	32	72	10	5	☹
TC620-M12X1,5-W5D-	MF 12	1.5	9.8	3	24	38	78	10	5	☹
TC620-M12X1,25W5D-	MF 12	1.25	10	2.5	25	38	78	10	5	☹
TC620-M12X1-W5D-	MF 12	1	10.3	2	24	38	83	12	6	☹
TC620-M14X1,5-W5D-	MF 14	1.5	11.7	3	28.5	44	89	12	5	☹
TC620-M16X1,5-W5D-	MF 16	1.5	13.6	3	33	44	92	16	6	☹
TC620-M18X1,5-W5D-	MF 18	1.5	15.5	3	36	52	100	16	6	☹
TC620-M20X1,5-W5D-	MF 20	1.5	17.3	3	40.5	57	105	18	7	☹

Ordering example for the grade WB10TJ: TC620-M10X1-W5D-WB10TJ

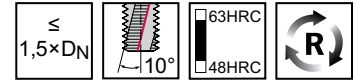
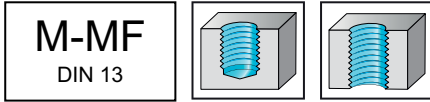
Solid carbide thread milling cutters

mm

TMG HRC



– Thread milling cutters for hardened materials



	P	M	K	N	S	H	O
TAX	●●	●	●●	●	●	●●	●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
		H5033008-M6	M 6	1	4.5	10	57	21	6	4
		H5033008-M8	M 8	1.25	6	12.5	57	21	6	5
		H5033008-M10	M 10	1.5	8	16.5	63	27	8	5
		H5033008-M12	M 12	1.75	9	19.3	72	32	10	5
		H5033008-M16	M 16	2	12	26	83	38	12	5

DIN 6535 HA

C3

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

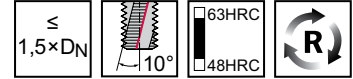
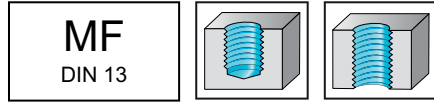
Solid carbide thread milling cutters

mm

TMG HRC



– Thread milling cutters for hardened materials



	P	M	K	N	S	H	O
TAX	●●		●●		●	●●	●

Tool									
	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5133008-M12X1	MF 12	1	10	20	72	32	10	5
	H5133008-M14X1,5	MF 14	1.5	12	27	83	38	12	6

DIN 6535 HA

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

●● Primary application ● Other application

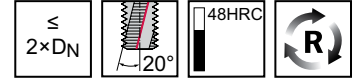
Solid carbide thread milling cutters

mm

TME



– Universal thread milling cutter for external thread



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
		H5150106-M10X1	MF 10	1	10	16	72	32	10	4
		H5150106-M12X1,5	MF 12	1.5	12	22.5	83	38	12	5
		H5150106-M16X1	MF 16	1	16	30	92	44	16	6
		H5150106-M16X1,25	MF 16	1.25	16	30	92	44	16	6
		H5150106-M16X1,5	MF 16	1.5	16	30	92	44	16	6
		H5150106-M16X2	MF 16	2	16	30	92	44	16	6

DIN 6535 HB

C3

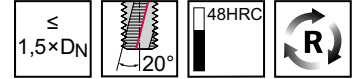
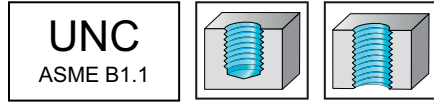
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC610-UNC1/4-W0-	UNC 1/4-20	20	4.8	10.2	57	21	6	3	●●
	TC610-UNC5/16-W0-	UNC 5/16-18	18	5.5	12.7	57	21	6	4	●●
	TC610-UNC3/8-W0-	UNC 3/8-16	16	7.5	14.3	63	27	8	4	●●
	TC610-UNC7/16-W0-	UNC 7/16-14	14	8	18.1	63	27	8	4	●●
	TC610-UNC1/2-W0-	UNC 1/2-13	13	10	19.5	72	32	10	4	●●
	TC610-UNC9/16-W0-	UNC 9/16-12	12	10	19.5	72	32	10	4	●●
	TC610-UNC5/8-W0-	UNC 5/8-11	11	12	25.4	83	38	12	5	●●
	TC610-UNC3/4-W0-	UNC 3/4-10	10	14	30.5	90	45	14	5	●●
	TC610-UNC1-W0-	UNC 1"-8	8	18	38.1	104	54	20	5	●●

Ordering example for the grade WJ30RC: TC610-UNC1-W0-WJ30RC

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

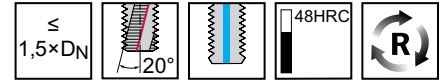
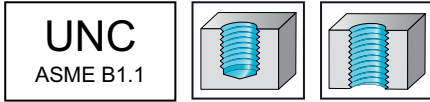
●● Primary application ● Other application

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●	●	●	●	●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC610-UNC1/4-W1-	UNC 1/4-20	20	4.8	10.2	57	21	6	3	☺
	TC610-UNC5/16-W1-	UNC 5/16-18	18	5.5	12.7	57	21	6	4	☺
	TC610-UNC3/8-W1-	UNC 3/8-16	16	7.5	14.3	63	27	8	4	☺
	TC610-UNC7/16-W1-	UNC 7/16-14	14	8	18.1	63	27	8	4	☺
	TC610-UNC1/2-W1-	UNC 1/2-13	13	10	19.5	72	32	10	4	☺
	TC610-UNC9/16-W1-	UNC 9/16-12	12	10	19.5	72	32	10	4	☺
	TC610-UNC5/8-W1-	UNC 5/8-11	11	12	25.4	83	38	12	5	☺
	TC610-UNC3/4-W1-	UNC 3/4-10	10	14	30.5	90	45	14	5	☺
	TC610-UNC7/8-W1-	UNC 7/8-9	9	16	33.9	98	50	16	5	☺
	TC610-UNC1-W1-	UNC 1"-8	8	18	38.1	104	54	20	5	☺

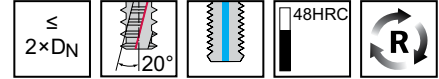
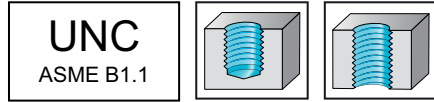
Ordering example for the grade WJ30RC: TC610-UNC1-W1-WJ30RC

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC620-UNC8-A1D-	UNC #8-32	32	3.1	1.59	8.7	21	57	6	3	☺
	TC620-UNC10-A1D-	UNC #10-24	24	3.5	2.12	10.6	21	57	6	3	☺
	TC620-UNC1/4-A1D-	UNC 1/4-20	20	4.7	2.54	12.7	21	57	6	3	☺
	TC620-UNC5/16-A1D-	UNC 5/16-18	18	6.1	2.82	16.9	27	63	8	4	☺
	TC620-UNC3/8-A1D-	UNC 3/8-16	16	7.4	3.18	19.1	27	63	8	4	☺
	TC620-UNC1/2-A1D-	UNC 1/2-13	13	10.1	3.91	25.4	38	83	12	4	☺
	TC620-UNC5/8-A1D-	UNC 5/8-11	11	12.7	4.62	32.3	44	92	16	4	☺
	TC620-UNC3/4-A1D-	UNC 3/4-10	10	15.5	5.08	38.1	56	104	16	5	☺
	TC620-UNC7/8-A1D-	UNC 7/8-9	9	18	5.64	45.2	67	115	18	5	☺

Ordering example for the grade WB10TJ: TC620-UNC1/2-A1D-WB10TJ

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

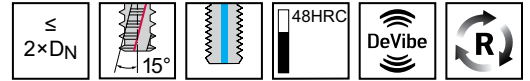
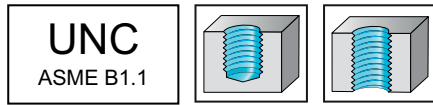
●● Primary application ● Other application

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HB</p>	★ TC620-UNC8-W5D-	UNC #8-32	32	3.1	1.59	8.7	21	57	6	3	☹
	★ TC620-UNC10-W5D-	UNC #10-24	24	3.5	2.12	10.6	21	57	6	3	☹
	★ TC620-UNC1/4-W5D-	UNC 1/4-20	20	4.7	2.54	12.7	21	57	6	3	☹
	TC620-UNC5/16-W5D-	UNC 5/16-18	18	6.1	2.82	16.9	27	63	8	4	☹
	TC620-UNC3/8-W5D-	UNC 3/8-16	16	7.4	3.18	19.1	32	68	8	4	☹
	TC620-UNC1/2-W5D-	UNC 1/2-13	13	10.1	3.91	25.4	38	83	12	4	☹
	TC620-UNC5/8-W5D-	UNC 5/8-11	11	12.7	4.62	32.3	52	100	16	4	☹
	TC620-UNC3/4-W5D-	UNC 3/4-10	10	15.5	5.08	38.1	52	100	16	5	☹

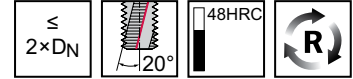
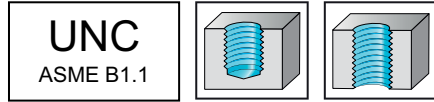
Ordering example for the grade WB10TJ: TC620-UNC1/2-W5D-WB10TJ

Solid carbide thread milling cutters

TC611 Supreme



- Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC611-UNC1/4-W0-	UNC 1/4-20	20	4.8	12.7	57	21	6	3	☹
	TC611-UNC5/16-W0-	UNC 5/16-18	18	5.5	16.9	57	21	6	4	☹
	TC611-UNC3/8-W0-	UNC 3/8-16	16	7.5	19.1	63	27	8	4	☹
	TC611-UNC7/16-W0-	UNC 7/16-14	14	8	23.6	68	32	8	4	☹
	TC611-UNC1/2-W0-	UNC 1/2-13	13	10	25.4	76	36	10	4	☹
	TC611-UNC9/16-W0-	UNC 9/16-12	12	10	29.6	80	40	10	4	☹
	TC611-UNC5/8-W0-	UNC 5/8-11	11	12	32.3	90	45	12	5	☹
	TC611-UNC3/4-W0-	UNC 3/4-10	10	14	38.1	98	53	14	5	☹
	TC611-UNC7/8-W0-	UNC 7/8-9	9	16	45.2	108	60	16	5	☹
	TC611-UNC1-W0-	UNC 1"-8	8	18	50.8	116	68	20	5	☹

Ordering example for the grade WJ30RC: TC611-UNC1-W0-WJ30RC

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

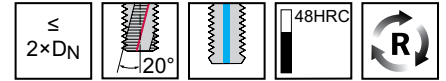
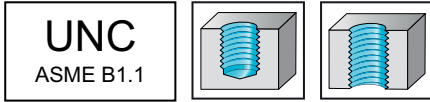
●● Primary application ● Other application

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC611-UNC1/4-W1-	UNC 1/4-20	20	4.8	12.7	57	21	6	3	☺
	TC611-UNC5/16-W1-	UNC 5/16-18	18	5.5	16.9	57	21	6	4	☺
	TC611-UNC3/8-W1-	UNC 3/8-16	16	7.5	19.1	63	27	8	4	☺
	TC611-UNC7/16-W1-	UNC 7/16-14	14	8	23.6	68	32	8	4	☺
	TC611-UNC1/2-W1-	UNC 1/2-13	13	10	25.4	76	36	10	4	☺
	TC611-UNC9/16-W1-	UNC 9/16-12	12	10	29.6	80	40	10	4	☺
	TC611-UNC5/8-W1-	UNC 5/8-11	11	12	32.3	90	45	12	5	☺
	TC611-UNC3/4-W1-	UNC 3/4-10	10	14	38.1	98	53	14	5	☺
	TC611-UNC7/8-W1-	UNC 7/8-9	9	16	45.2	108	60	16	5	☺
	TC611-UNC1-W1-	UNC 1"-8	8	18	50.8	116	68	20	5	☺

Ordering example for the grade WJ30RC: TC611-UNC1-W1-WJ30RC

C3

WALTER SELECT ●● Primary application ● Other application

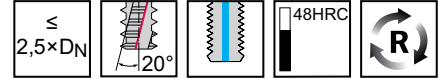
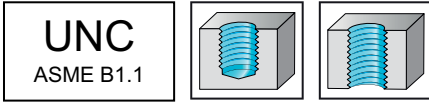
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme

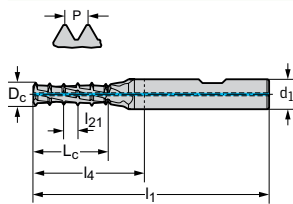


- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool



DIN 6535 HB

Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
TC620-UNC8-W1E-	UNC #8-32	32	3.1	2.38	10.3	21	57	6	3	●●
TC620-UNC10-W1E-	UNC #10-24	24	3.5	3.18	12.7	21	57	6	3	●●
TC620-UNC1/4-W1E-	UNC 1/4-20	20	4.7	3.81	16.5	29	65	6	3	●●

Ordering example for the grade WB10TJ: TC620-UNC1/4-W1E-WB10TJ

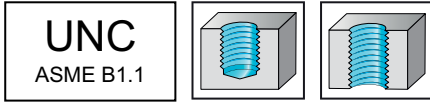
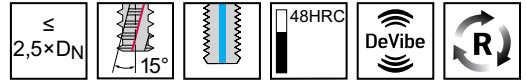
C3

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HB</p>	★	TC620-UNC8-W5E-	UNC #8-32	32	3.1	2.38	10.3	21	57	6	3	☹
	★	TC620-UNC10-W5E-	UNC #10-24	24	3.5	3.18	12.7	21	57	6	3	☹
	★	TC620-UNC1/4-W5E-	UNC 1/4-20	20	4.7	3.81	16.5	21	60	6	3	☹
		TC620-UNC5/16-W5E-	UNC 5/16-18	18	6.1	4.23	21.2	34	70	8	4	☹
		TC620-UNC3/8-W5E-	UNC 3/8-16	16	7.4	4.76	23.8	36	72	8	4	☹
		TC620-UNC1/2-W5E-	UNC 1/2-13	13	10.1	5.86	31.3	47	92	12	4	☹
		TC620-UNC5/8-W5E-	UNC 5/8-11	11	12.7	6.93	41.6	60	108	16	4	☹
		TC620-UNC3/4-W5E-	UNC 3/4-10	10	15.5	7.62	48.3	62	110	16	5	☹

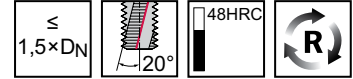
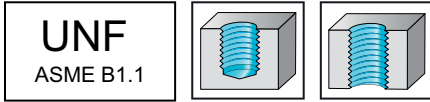
Ordering example for the grade WB10TJ: TC620-UNC1/2-W5E-WB10TJ

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC610-UNF10-W0-	UNF #10-32	32	3.6	7.9	57	21	6	3	●●
	TC610-UNF1/4-W0-	UNF 1/4-28	28	4.8	10	57	21	6	4	●●
	TC610-UNF5/16-W0-	UNF 5/16-24	24	6	12.7	57	21	6	4	●●
	TC610-UNF7/16-W0-	UNF 7/16-20	20	8	17.8	63	27	8	4	●●
	TC610-UNF9/16-W0-	UNF 9/16-18	18	10	22.6	72	32	10	5	●●
	TC610-UNF3/4-W0-	UNF 3/4-16	16	14	28.6	88	43	14	6	●●

Ordering example for the grade WJ30RC: TC610-UNF1/4-W0-WJ30RC

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

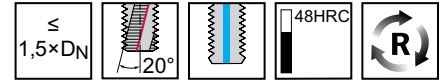
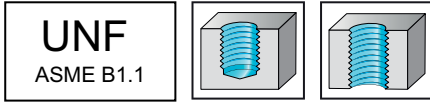
●● Primary application ● Other application

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D_N	Threads per inch	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC610-UNF10-W1-	UNF #10-32	32	3.6	7.9	57	21	6	3	☺
	TC610-UNF1/4-W1-	UNF 1/4-28	28	4.8	10	57	21	6	4	☺
	TC610-UNF5/16-W1-	UNF 5/16-24	24	6	12.7	57	21	6	4	☺
	TC610-UNF7/16-W1-	UNF 7/16-20	20	8	17.8	63	27	8	4	☺
	TC610-UNF9/16-W1-	UNF 9/16-18	18	10	22.6	72	32	10	5	☺
	TC610-UNF3/4-W1-	UNF 3/4-16	16	14	28.6	88	43	14	6	☺

Ordering example for the grade WJ30RC: TC610-UNF1/4-W1-WJ30RC

C3

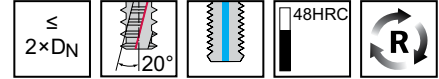
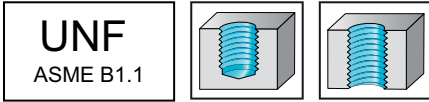
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme

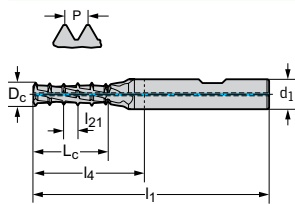


- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	0
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HB

Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
TC620-UNF10-W1D-	UNF #10-32	32	3.7	1.59	10.3	21	57	6	3	☺
TC620-UNF1/4-W1D-	UNF 1/4-28	28	5.1	1.81	12.7	21	57	6	4	☺

Ordering example for the grade WB10TJ: TC620-UNF1/4-W1D-WB10TJ

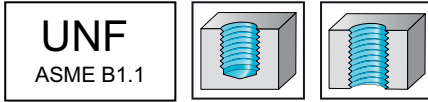
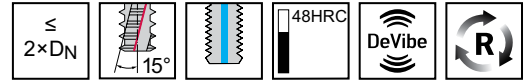
C3

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	O
WB10TJ (AITiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HB</p>	★	TC620-UNF10-W5D-	UNF #10-32	32	3.7	1.59	10.3	21	57	6	3	☹
	★	TC620-UNF1/4-W5D-	UNF 1/4-28	28	5.1	1.81	12.7	21	57	6	4	☹
		TC620-UNF5/16-W5D-	UNF 5/16-24	24	6.4	2.12	15.9	27	63	8	4	☹
		TC620-UNF3/8-W5D-	UNF 3/8-24	24	7.9	2.12	19.1	31	67	8	5	☹
		TC620-UNF7/16-W5D-	UNF 7/16-20	20	9.2	2.54	22.9	32	72	10	5	☹
		TC620-UNF1/2-W5D-	UNF 1/2-20	20	10.7	2.54	25.4	38	83	12	5	☹
		TC620-UNF9/16-W5D-	UNF 9/16-18	18	12	2.82	29.6	45	90	12	5	☹
		TC620-UNF5/8-W5D-	UNF 5/8-18	18	13.5	2.82	32.5	48	96	16	6	☹
		TC620-UNF3/4-W5D-	UNF 3/4-16	16	16.4	3.18	38.1	56	104	18	6	☹

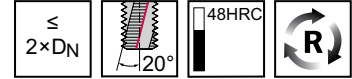
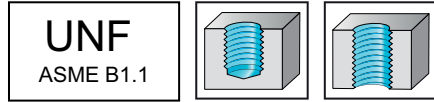
Ordering example for the grade WB10TJ: TC620-UNF1/2-W5D-WB10TJ

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
<p>DIN 6535 HB</p>	TC611-UNF10-W0-	UNF #10-32	32	3.6	10.3	57	21	6	3	☺
	TC611-UNF1/4-W0-	UNF 1/4-28	28	4.8	12.7	57	21	6	4	☺
	TC611-UNF5/16-W0-	UNF 5/16-24	24	6	15.9	57	21	6	4	☺
	TC611-UNF7/16-W0-	UNF 7/16-20	20	8	22.9	68	32	8	4	☺
	TC611-UNF9/16-W0-	UNF 9/16-18	18	10	29.6	80	40	10	5	☺
	TC611-UNF3/4-W0-	UNF 3/4-16	16	14	38.1	98	53	14	6	☺

Ordering example for the grade WJ30RC: TC611-UNF1/4-W0-WJ30RC

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

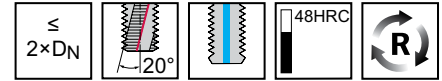
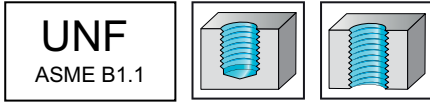
●● Primary application ● Other application

Solid carbide thread milling cutters

TC611 Supreme



– Universal thread milling cutters



	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
	TC611-UNF10-W1-	UNF #10-32	32	3.6	10.3	57	21	6	3	☺
	TC611-UNF1/4-W1-	UNF 1/4-28	28	4.8	12.7	57	21	6	4	☺
	TC611-UNF5/16-W1-	UNF 5/16-24	24	6	15.9	57	21	6	4	☺
	TC611-UNF7/16-W1-	UNF 7/16-20	20	8	22.9	68	32	8	4	☺
	TC611-UNF9/16-W1-	UNF 9/16-18	18	10	29.6	80	40	10	5	☺
	TC611-UNF3/4-W1-	UNF 3/4-16	16	14	38.1	98	53	14	6	☺

DIN 6535 HB

Ordering example for the grade WJ30RC: TC611-UNF1/4-W1-WJ30RC

C3

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

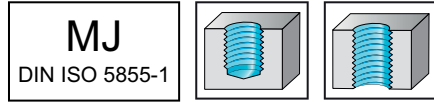
Solid carbide thread milling cutters

mm

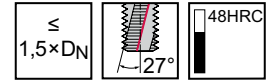
TMG Ni



- Thread milling cutters for nickel alloys



MJ
DIN ISO 5855-1



	P	M	K	N	S	H	O
TICN	●●	●●	●	●	●●	●	●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
	H5036006-MJ4	MJ 4	0.7	3	6.3	54	18	6	3
	H5036006-MJ5	MJ 5	0.8	3.9	8	54	18	6	3
	H5036006-MJ6	MJ 6	1	4.8	9	54	20	6	3

DIN 6535 HA

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

●● Primary application ● Other application

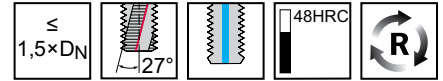
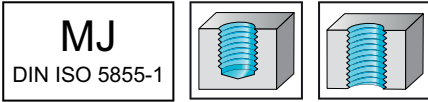
Solid carbide thread milling cutters

mm

TMG Ni

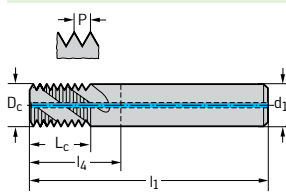


– Thread milling cutters for nickel alloys



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●

Tool



DIN 6535 HA

Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H5036016-MJ8	MJ 8	1.25	6.3	12.5	58	22	8	4
H5036016-MJ10	MJ 10	1.5	7.5	15	58	22	8	4

C3

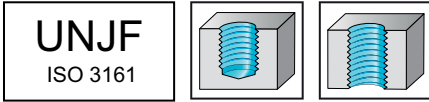
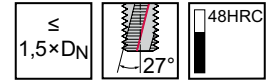
Solid carbide thread milling cutters

mm

TMG Ni



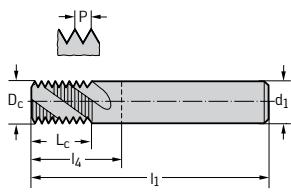
- Thread milling cutters for nickel alloys



	P	M	K	N	S	H	O
TICN	●●	●●	●	●	●●	●	●

Tool

Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H5336006-UNJF10	UNJF #10-32	32	3.6	7.9	54	18	6	3
H5336006-UNJF1/4	UNJF 1/4-28	28	4.8	10	54	18	6	3



DIN 6535 HA

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

●● Primary application ● Other application

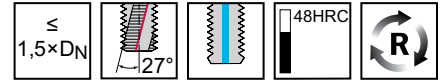
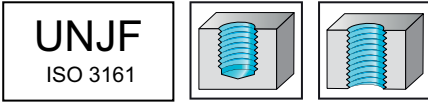
Solid carbide thread milling cutters

mm

TMG Ni

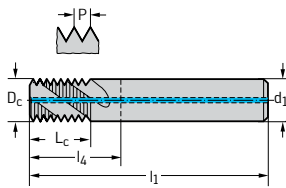


– Thread milling cutters for nickel alloys



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●	●●	●	●

Tool



DIN 6535 HA

Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H5336016-UNJF5/16	UNJF 5/16-24	24	6.2	12.7	58	22	8	3
H5336016-UNJF3/8	UNJF 3/8-24	24	8	14.8	58	22	8	3
H5336016-UNJF7/16	UNJF 7/16-20	20	9.2	17.8	72	26	10	4
H5336016-UNJF1/2	UNJF 1/2-20	20	10.5	19.1	73	28	12	4

C3

Solid carbide thread milling cutters

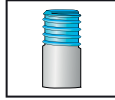
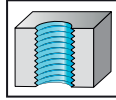
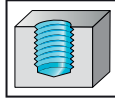
TC610 Supreme



- Universal thread milling cutters

G (BSP)
DIN EN ISO 228

Rp
DIN EN 10226-1



$\leq 1,5 \times D_N$



48HRC



P	M	K	N	S	H	O
●●	●●	●●	●●	●●	●●	●

Tool	Designation	D_N	Threads per inch	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z	WJ30RC
	TC610-G1/8-W0-	G 1/8-28	28	6	15.4	57	21	6	5	☺
	TC610-G1/4-W0-	G 1/4-19	19	10	20.1	72	32	10	5	☺
	TC610-G3/8-W0-	G 3/8-19	19	14	25.4	83	38	14	7	☺
	TC610-G1/2-W0-	G 1/2-14	14	16	32.7	96	44	16	6	☺
	TC610-G1X20-W0-	G 1"-11	11	20	50.8	120	75	20	6	☺

DIN 6535 HB

Ordering example for the grade WJ30RC: TC610-G1/2-W0-WJ30RC

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

●● Primary application ● Other application

Solid carbide thread milling cutters

TC610 Supreme



– Universal thread milling cutters

G (BSP)
DIN EN ISO 228

Rp
DIN EN 10226-1

	P	M	K	N	S	H	O
WJ30RC (TAM)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	Threads per inch	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WJ30RC
	TC610-G1/8-W1-	G 1/8-28	28	6	15.4	57	21	6	5	☺
	TC610-G1/4-W1-	G 1/4-19	19	10	20.1	72	32	10	5	☺
	TC610-G3/8-W1-	G 3/8-19	19	14	25.4	83	38	14	7	☺
	TC610-G1/2-W1-	G 1/2-14	14	16	32.7	96	44	16	6	☺
	TC610-G1X20-W1-	G 1"-11	11	20	50.8	120	75	20	6	☺

DIN 6535 HB

Ordering example for the grade WJ30RC: TC610-G1/2-W1-WJ30RC

C3

WALTER
SELECT

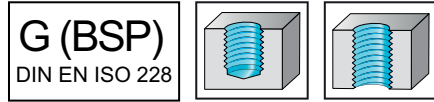
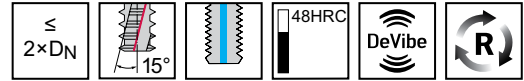
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Multiple-row thread milling cutters

TC620 Supreme



- Universal multiple-row thread milling cutters
- For high cutting speeds and high feeds per tooth



	P	M	K	N	S	H	0
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	Threads per inch	D _c mm	l ₂₁ mm	L _c mm	l ₄ mm	l ₁ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HB</p>	★ TC620-G1/16-W5D-	G 1/16-28	28	6	1.81	15.4	26	62	6	5	☹
	★ TC620-G1/8-W5D-	G 1/8-28	28	8	1.81	20	28	64	8	5	☹
	★ TC620-G1/4-W5D-	G 1/4-19	19	10	2.67	26.7	38	78	10	5	☹
	★ TC620-G3/8-W5D-	G 3/8-19	19	14	2.67	33.4	49	94	14	6	☹
	★ TC620-G1/2-W5D-	G 1/2-14	14	18	3.63	43.5	68	116	18	6	☹

Ordering example for the grade WB10TJ: TC620-G1/16-W5D-WB10TJ

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹☹ machining conditions

●● Primary application ● Other application

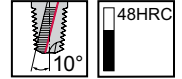
Solid carbide thread milling cutters

mm

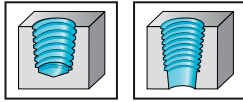
TMG



– Universal thread milling cutters



NPT
ASME B1.20.1



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
		H5551106-NPT1/16	NPT 1/16-27	27	5.5	11.03	57	21	6	3
		H5551106-NPT1/8	NPT 1/8-27	27	7.9	11.03	58	22	8	3
		H5551106-NPT1/4-3/8	NPT 1/4-3/8-18	18	9.9	15.21	66	26	10	3
		H5551106-NPT1/2-3/4	NPT 1/2-3/4-14	14	15.9	19.55	82	34	16	4
		H5551106-NPT1-2	NPT 1-2-1/2	11 1/2	19.9	26.02	92	42	20	5

DIN 6535 HB

C3

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

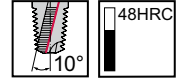
Solid carbide thread milling cutters

mm

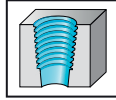
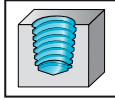
TMG



- Universal thread milling cutters

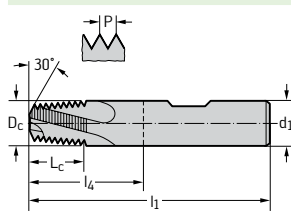


NPTF
ASME B1.20.3



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●

Tool



DIN 6535 HB

Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H5651106-NPTF1/16	NPTF 1/16-27	27	5.5	11.03	57	21	6	3
H5651106-NPTF1/8	NPTF 1/8-27	27	7.9	11.03	58	22	8	3
H5651106-NPTF1/4-3/8	NPTF 1/4-3/8-18	18	9.9	15.21	66	26	10	3
H5651106-NPTF1/2-3/4	NPTF 1/2-3/4-14	14	15.9	19.55	82	34	16	4
H5651106-NPTF1-2	NPTF 1-2-1/2	11 1/2	19.9	26.02	92	42	20	5

C3

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions


Thread milling cutters with countersink

Machining	
Thread depth	2 x D _N



Designation	TMC
-------------	-----

Thread type	
M	✓
MF	✓
UNC / UNF / UN-8	
G / Rc / Rp	
MJ / UNJC / UNJF	
NPT / NPTF	
Pg / BSW / Tr	
STI / Eg / thread insert	✓

Additional services	
---------------------	---

Coolant supply	External / axial
----------------	------------------

Coating / grade	TICN / uncoated
-----------------	-----------------

Cutting tool material	VHM
-----------------------	-----

P Steel	●●
M Stainless steel	●●
K Cast iron	●●
N NF metals	●●
S Materials with difficult cutting properties	●●
H Hard materials	
O Other	●

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www.walter-tools.com/woc/	tmc
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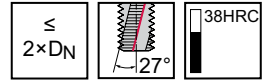
Solid carbide thread milling cutters

mm

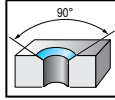
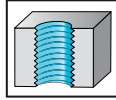
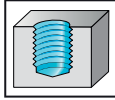
TMC



– Universal thread milling cutters with countersink

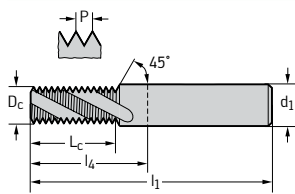


M-MF
DIN 13



	P	M	K	N	S	H	O
TiCN	●●	●●	●●	●●	●●		●
uncoated	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HA

Designation (uncoated)	Designation (TiCN)	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H505500-M3	H5055006-M3	M 3	0.5	2.3	6	57	21	6	3

C3

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

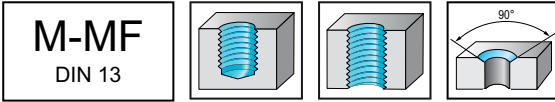
Solid carbide thread milling cutters

mm

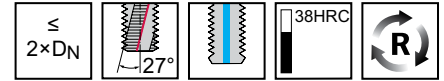
TMC



– Universal thread milling cutters with countersink

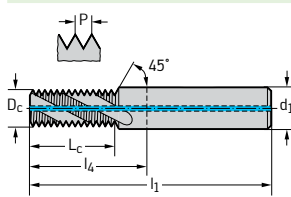


M-MF
DIN 13



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HA

Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H5055016-M4	M 4	0.7	3.2	8.4	57	21	6	3
H5055016-M5	M 5	0.8	4.1	10.4	57	21	6	3
H5055016-M6	M 6	1	4.8	12	63	27	8	3
H5055016-M8	M 8	1.25	6.5	16.3	72	32	10	3
H5055016-M10	M 10	1.5	8.2	21	83	38	12	3
H5055016-M12	M 12	1.75	9.9	24.5	83	38	14	4
H5055016-M14	M 14	2	11.6	30	92	44	16	4
H5055016-M16	M 16	2	13.6	32	92	44	18	4

C3

WALTER SELECT

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

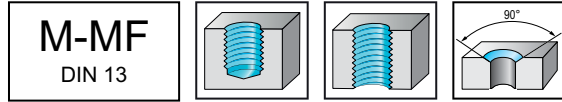
Solid carbide thread milling cutters

mm

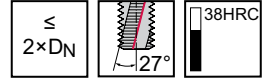
TMC



– Universal thread milling cutters with countersink



M-MF
DIN 13



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D_N	P mm	D_c mm	L_c mm	l_1 mm	l_4 mm	d_1 h6 mm	Z
<p>DIN 6535 HB</p>	H5055106-M3	M 3	0.5	2.3	6	57	21	6	3

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

●● Primary application ● Other application

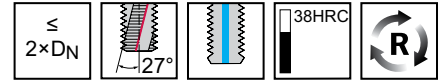
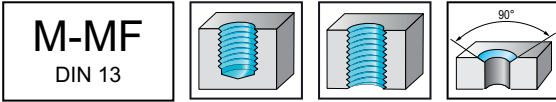
Solid carbide thread milling cutters

mm

TMC

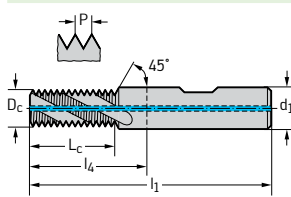


– Universal thread milling cutters with countersink



	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●		●

Tool



DIN 6535 HB

Designation	D _N	P mm	D _c mm	L _c mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
H5055116-M4	M 4	0.7	3.2	8.4	57	21	6	3
H5055116-M5	M 5	0.8	4.1	10.4	57	21	6	3
H5055116-M6	M 6	1	4.8	12	63	27	8	3
H5055116-M8	M 8	1.25	6.5	16.3	72	32	10	3
H5055116-M10	M 10	1.5	8.2	21	83	38	12	3
H5055116-M12	M 12	1.75	9.9	24.5	83	38	14	4
H5055116-M14	M 14	2	11.6	30	92	44	16	4
H5055116-M16	M 16	2	13.6	32	92	44	18	4

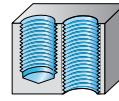
C3

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Drill thread milling cutters

Machining



Thread depth	2 x D _N	2 x D _N	2 x D _N	2.5 x D _N	2.5 x D _N
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NEW
NEW


Designation	TC685 Supreme	TMD	Thrill-tec™	TC685 Supreme	Thrill-tec™
-------------	---------------	-----	-------------	---------------	-------------

Thread type

M	✓	✓	✓	✓	✓
MF	✓		✓	✓	✓
UNC / UNF / UN-8			✓		✓
G / Rc / Rp	✓		✓		
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI / Eg / thread insert	✓		✓	✓	✓

Additional services

Coolant supply	External / axial	axial	axial	External / axial	axial
----------------	------------------	-------	-------	------------------	-------

Coating / grade	WB10RC	NHC / TAX	WB10TJ	WB10RC	WB10TJ
-----------------	--------	-----------	--------	--------	--------

Cutting tool material	VHM	VHM	VHM	VHM	VHM
-----------------------	-----	-----	-----	-----	-----

P Steel	●		●●	●	●●
M Stainless steel			●●		●●
K Cast iron	●	●●	●●	●	●●
N NF metals		●●	●●		●●
S Materials with difficult cutting properties	●		●●	●	●●
H Hard materials	●●			●●	
O Other			●		●

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QR code


www.walter-tools.com/woc/

TC685

tmd

TC645

TC685

TC645

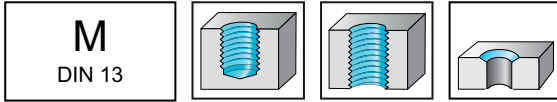
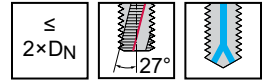
Solid carbide drill thread milling cutters

mm

TMD



- Drilling, countersinking and thread milling in one operation
- Drill thread milling cutters



	P	M	K	N	S	H	O
NHC				●●			
TAX			●●				

Tool	Designation	P mm	D _c mm	D _a mm	L _c mm	L _{c3} mm	d ₄ mm	L _{c1} mm	L _{c2} mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
<p>DIN 6535 HA</p>	H5075011-M6	1	5	4.75	11	14.7	6.3	13.8	1	62	26	8	3
	H5075011-M8	1.25	6.8	6.42	13.8	18.9	8.3	17.7	1.25	74	34	10	3
Tool	Designation	P mm	D _c mm	D _a mm	L _c mm	L _{c3} mm	d ₄ mm	L _{c1} mm	L _{c2} mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z
<p>DIN 6535 HA</p>	H5075018-M6	1	5	4.75	11	14.7	6.3	13.8	1	62	26	8	3
	H5075018-M8	1.25	6.8	6.42	13.8	18.9	8.3	17.7	1.25	74	34	10	3
	H5075018-M10	1.5	8.5	8.07	18	23.7	10.3	22.2	1.5	80	35	12	3

C3

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

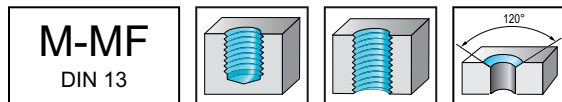
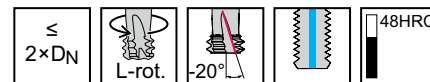
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™

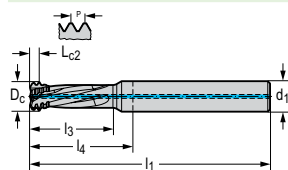


- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool



DIN 6535 HA

Designation	D _N	P mm	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
TC645-M4-A1D-	M 4	0.7	3.05	1.12	8	50	14	6	4	☺
TC645-M5-A1D-	M 5	0.8	3.9	1.29	10	50	14	6	4	☺
TC645-M6-A1D-	M 6	1	4.5	1.6	12	50	14	6	4	☺
TC645-M8-A1D-	M 8	1.25	6.2	2.01	16	63	27	8	4	☺
TC645-M10-A1D-	M 10	1.5	7.8	2.22	20	63	27	8	4	☺
TC645-M12-A1D-	M 12	1.75	8.7	2.83	24	72	32	10	4	☺
★ TC645-M14-A1D-	M 14	2	10.2	3.24	28	83	38	12	4	☹
★ TC645-M16-A1D-	M 16	2	12	3.27	32	83	38	12	4	☹
★ TC645-M20-A1D-	M 20	2.5	14.9	4.09	40	105	57	16	4	☹

Maximum nominal thread diameter for fine thread: $D_c \times 1.94$ | Example: $TC645-M8.. / 6.2 \text{ mm} \times 1.94 = 12.03 \text{ mm/MF } 12 \times 1.25$ possible | Ordering example for the grade WB10TJ: TC645-M10-A1D-WB10TJ

C3

WALTER
SELECT

●● Primary application ● Other application
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

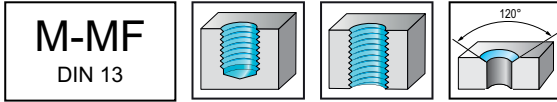
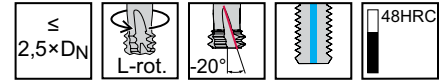
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™



- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC645-M4-A1E-	M 4	0.7	3.05	1.12	10	50	14	6	4	☺
	TC645-M5-A1E-	M 5	0.8	3.9	1.29	12.5	57	21	6	4	☺
	TC645-M6-A1E-	M 6	1	4.5	1.6	15	57	21	6	4	☺
	TC645-M8-A1E-	M 8	1.25	6.2	2.01	20	63	27	8	4	☺
	TC645-M10-A1E-	M 10	1.5	7.8	2.42	25	63	27	8	4	☺
	TC645-M12-A1E-	M 12	1.75	8.7	2.83	30	72	33	10	4	☺
	★ TC645-M14-A1E-	M 14	2	10.2	3.24	35	100	55	12	4	☹
	★ TC645-M16-A1E-	M 16	2	12	3.27	40	100	55	12	4	☹
	★ TC645-M20-A1E-	M 20	2.5	14.9	4.09	50	107	59	16	4	☹

Maximum nominal thread diameter for fine thread: D_c x 1.94 | Example: TC645-M8.. /6.2 mm x 1.94 = 12.03 mm/MF 12x1.25 possible | Ordering example for the grade WB10TJ: TC645-M10-A1E-WB10TJ

C3

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

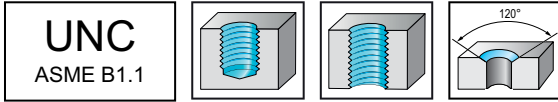
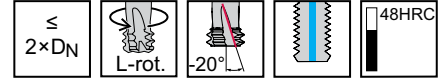
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™

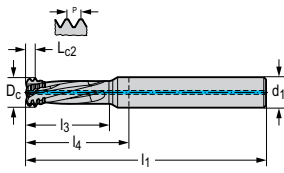


- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	0
WB10TJ (AlTiN)	●	●	●	●	●	●	●

Tool



DIN 6535 HA

Designation	D _N	Threads per inch	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
TC645-UNC8-A1D-	UNC #8-32	32	3.1	1.26	8.331	50	14	6	4	☺
TC645-UNC10-A1D-	UNC #10-24	24	3.5	1.67	9.652	50	14	6	4	☺
TC645-UNC1/4-A1D-	UNC 1/4-20	20	4.6	2.02	12.7	57	21	6	4	☺
TC645-UNC5/16-A1D-	UNC 5/16-18	18	5.9	2.25	15.875	57	21	6	4	☺
TC645-UNC3/8-A1D-	UNC 3/8-16	16	7.2	2.54	19.05	63	27	8	4	☺
TC645-UNC7/16-A1D-	UNC 7/16-14	14	8.5	2.91	22.225	72	32	10	4	☺
TC645-UNC1/2-A1D-	UNC 1/2-13	13	9.2	3.15	25.4	72	32	10	4	☺
★ TC645-UNC9/16-A1D-	UNC 9/16-12	12	10.4	3.42	28.575	83	38	12	4	☹
★ TC645-UNC5/8-A1D-	UNC 5/8-11	11	11.6	3.73	31.75	83	38	12	4	☹
★ TC645-UNC3/4-A1D-	UNC 3/4-10	10	14.1	4.13	38.1	105	57	16	4	☹

Ordering example for the grade WB10TJ: TC645-UNC1/2-A1D-WB10TJ

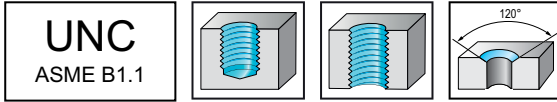
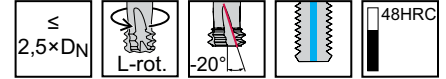
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™



- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ (AITiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	Threads per inch	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC645-UNC8-A1E-	UNC #8-32	32	3.1	1.26	10.414	50	14	6	4	☺
	TC645-UNC10-A1E-	UNC #10-24	24	3.5	1.67	12.065	57	21	6	4	☺
	TC645-UNC1/4-A1E-	UNC 1/4-20	20	4.6	2.02	15.875	57	21	6	4	☺
	TC645-UNC5/16-A1E-	UNC 5/16-18	18	5.9	2.25	19.844	57	22	6	4	☺
	TC645-UNC3/8-A1E-	UNC 3/8-16	16	7.2	2.54	23.813	63	27	8	4	☺
	TC645-UNC7/16-A1E-	UNC 7/16-14	14	8.5	2.91	27.781	72	32	10	4	☺
	TC645-UNC1/2-A1E-	UNC 1/2-13	13	9.2	3.15	31.75	80	40	10	4	☺
	★ TC645-UNC9/16-A1E-	UNC 9/16-12	12	10.4	3.42	35.719	100	55	12	4	☹
	★ TC645-UNC5/8-A1E-	UNC 5/8-11	11	11.6	3.73	39.688	100	55	12	4	☹
	★ TC645-UNC3/4-A1E-	UNC 3/4-10	10	14.1	4.13	47.625	107	59	16	4	☹

Ordering example for the grade WB10TJ: TC645-UNC1/2-A1E-WB10TJ

C3

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

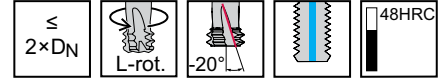
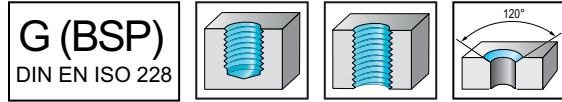
Orbital drill thread milling cutter

TC645 Supreme

Thrill-tec™



- Orbital drill thread milling cutters for universal application
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	Threads per inch	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	TC645-G1/16-A1D-	G 1/16-28	28	6.2	1.44	15.446	58	22	8	4	☺
	TC645-G1/8-A1D-	G 1/8-28	28	8.05	1.46	19.456	64	24	10	4	☺
	TC645-G1/4-A1D-	G 1/4-19	19	10.2	2.15	26.35	77	32	12	4	☺
	★ TC645-G1/2-A1D-	G 1/2-14	14	16.4	2.95	41.91	105	57	18	4	☹

DIN 6535 HA

Ordering example for the grade WB10TJ: TC645-G1/16-A1D-WB10TJ

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

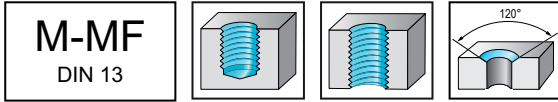
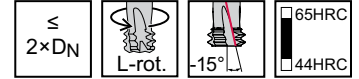
●● Primary application ● Other application

Orbital drill thread milling cutter

TC685 Supreme



- Orbital drill thread milling cutters for hardened materials
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10RC (TAX)	●		●		●	●●	

Tool	Designation	D _N	P mm	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RC
<p>DIN 6535 HA</p>	TC685-M2-A0D-	M 2	0.4	1.55	0.64	4	57	21	6	4	☺
	TC685-M2,5-A0D-	M 2.5	0.45	1.95	0.72	5	57	21	6	4	☺
	TC685-M3-A0D-	M 3	0.5	2.35	0.8	6	50	14	6	4	☺
	TC685-M4-A0D-	M 4	0.7	3.1	1.12	8	50	14	6	4	☺
	TC685-M5-A0D-	M 5	0.8	3.9	1.29	10	57	21	6	4	☺
<p>DIN 6535 HA</p>	TC685-M6-A1D-	M 6	1	4.6	1.61	12	57	21	6	4	☺
	TC685-M8-A1D-	M 8	1.25	6.2	2.02	16	63	27	8	4	☺
	TC685-M10-A1D-	M 10	1.5	7.8	2.43	20	63	27	8	4	☺
	TC685-M12-A1D-	M 12	1.75	9	2.84	24	72	32	10	4	☺
	TC685-M14-A1D-	M 14	2	10.5	3.25	28	83	38	12	4	☺
	TC685-M16-A1D-	M 16	2	12.5	3.28	32	92	44	16	4	☺
	TC685-M18-A1D-	M 18	2.5	13.5	4.06	36	115	67	16	4	☺
TC685-M20-A1D-	M 20	2.5	15.4	4.09	40	115	67	16	4	☺	

Maximum nominal thread diameter for fine thread: D_c x 1.94 | Example: TC685-M8.. / 6.2 mm x 1.94 = 12.03 mm / MF 12x1,25 possible | Ordering example for the grade WB10RC: TC685-M2-A0D-WB10RC

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

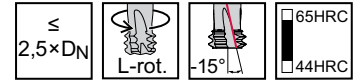
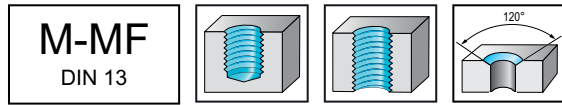
C3

Orbital drill thread milling cutter

TC685 Supreme



- Orbital drill thread milling cutters for hardened materials
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10RC (TAX)	●	●	●	●	●	●	●

Tool	Designation	D _N	P mm	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RC
<p>DIN 6535 HA</p>	TC685-M2-A0E-	M 2	0.4	1.55	0.64	4	57	21	6	4	☺
	TC685-M2,5-A0E-	M 2.5	0.45	1.95	0.72	5	57	21	6	4	☺
	TC685-M3-A0E-	M 3	0.5	2.35	0.8	7.5	50	14	6	4	☺
	TC685-M4-A0E-	M 4	0.7	3.1	1.12	10	57	21	6	4	☺
	TC685-M5-A0E-	M 5	0.8	3.9	1.29	12.5	57	21	6	4	☺
<p>DIN 6535 HA</p>	TC685-M6-A1E-	M 6	1	4.6	1.61	15	57	21	6	4	☺
	TC685-M8-A1E-	M 8	1.25	6.2	2.02	20	63	27	8	4	☺
	TC685-M10-A1E-	M 10	1.5	7.8	2.43	25	63	27	8	4	☺
	TC685-M12-A1E-	M 12	1.75	9	2.84	30	72	33	10	4	☺
	TC685-M14-A1E-	M 14	2	10.5	3.25	35	83	38	12	4	☺
	TC685-M16-A1E-	M 16	2	12.5	3.28	40	92	44	16	4	☺
	TC685-M18-A1E-	M 18	2.5	13.5	4.06	36	115	67	16	4	☺
TC685-M20-A1E-	M 20	2.5	15.4	4.09	50	115	67	16	4	☺	

Maximum nominal thread diameter for fine thread: $D_c \times 1.94$ | Example: TC685-M8.. / 6.2 mm x 1.94 = 12.03 mm / MF 12x1,25 possible | Ordering example for the grade WB10RC: TC685-M2-A0E-WB10RC

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

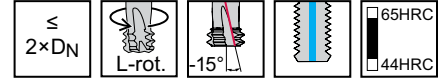
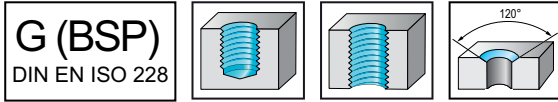
●● Primary application ● Other application

Orbital drill thread milling cutter

TC685 Supreme



- Orbital drill thread milling cutters for hardened materials
- Chamfer, core hole and thread in one operation



	P	M	K	N	S	H	O
WB10RC (TAX)	●		●		●	●●	

Tool		Designation	D _N	P	D _c mm	L _{c2} mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RC
		TC685-G1/16-A1D-	G 1/16-28	28	6.2	1.43	15.446	63	27	8	4	☺
		TC685-G1/8-A1D-	G 1/8-28	28	8.1	1.46	19.456	72	32	10	4	☺
		TC685-G1/4-A1D-	G 1/4-19	19	10.4	2.14	26.35	83	38	12	4	☺
		TC685-G1/2-A1D-	G 1/2-14	14	15.2	2.95	41.91	116	68	16	4	☺

DIN 6535 HA

Ordering example for the grade WB10RC: TC685-G1/16-A1D-WB10RC

C3

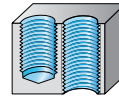
WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

●● Primary application ● Other application

Orbital thread milling cutters

Machining



Thread depth

 $2 \times D_N$
 $2 \times D_N$
 $2.5 \times D_N$
 $3 \times D_N$
 $4 \times D_N$


Designation

TC630 Supreme

TMO HRC

TC630 Supreme

TC630 Supreme

TC630 Supreme

Thread type

M

✓

✓

✓

✓

✓

MF

✓

✓

✓

✓

✓

UNC / UNF / UN-8

✓

✓

G / Rc / Rp

MJ / UNJC / UNJF

✓

NPT / NPTF

Pg / BSW / Tr

STI / Eg / thread insert

✓

✓

✓

✓

✓

Additional services

Coolant supply

External / axial

External

External

External / axial

axial

Coating / grade

WB10RA / WB10TJ

TAX

WB10TJ

WB10RA / WB10TJ

WB10TJ

Cutting tool material

VHM

VHM

VHM

VHM

VHM

P Steel

●●

●●

●●

●●

●●

M Stainless steel

●●

●●

●●

●●

●●

K Cast iron

●●

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●●

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N NF metals

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S Materials with difficult cutting properties

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H Hard materials

●●

O Other

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C 450

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www.walter-tools.com/woc/

TC630

tmo-hrc

TC630

TC630

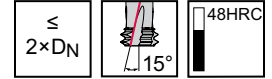
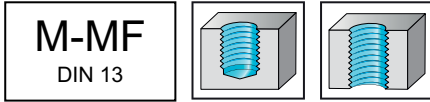
TC630

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC630-M1,2-A0D-	M 1.2	0.25	0.9	0.25	2.525	38	10	3	4	☼
	TC630-M1,4-A0D-	M 1.4	0.3	1.05	0.3	2.95	38	10	3	4	☼
	TC630-M1,6-A0D-	M 1.6	0.35	1.2	0.7	3.73	38	10	3	4	☼
	TC630-M1,8-A0D-	M 1.8	0.35	1.35	0.7	3.78	38	10	3	4	☼
	TC630-M2-A0D-	M 2	0.4	1.55	1.2	4.6	57	21	6	4	☼
	TC630-M2,2-A0D-	M 2.2	0.45	1.65	1.35	4.63	57	21	6	4	☼
	TC630-M2,5-A0D-	M 2.5	0.45	1.95	1.35	5.68	57	21	6	4	☼
	TC630-M3-A0D-	M 3	0.5	2.3	1.5	6.75	57	21	6	4	☼
	TC630-M3,5-A0D-	M 3.5	0.6	2.7	1.8	7.3	57	21	6	4	☼
	TC630-M4-A0D-	M 4	0.7	3.1	2.1	9.05	57	21	6	4	☼
	TC630-M4,5-A0D-	M 4.5	0.75	3.5	2.25	9.38	57	21	6	4	☼
	TC630-M5-A0D-	M 5	0.8	4	2.4	11.2	57	21	6	4	☼
	TC630-M6-A0D-	M 6	1	4.8	3	13.5	57	21	6	4	☼
	TC630-M8-A0D-	M 8	1.25	6.4	3.75	17.9	63	27	8	4	☼
	TC630-M10-A0D-	M 10	1.5	8.2	4.5	22.3	72	32	10	5	☼
	TC630-M12-A0D-	M 12	1.75	9.75	5.25	26.7	72	32	10	5	☼

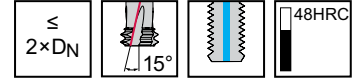
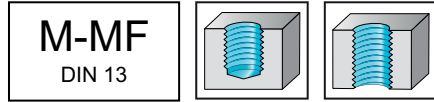
Ordering example for the grade WB10TJ: TC630-M1,2-A0D-WB10TJ

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC630-M5-A1D-	M 5	0.8	4	2.4	11.2	57	21	6	4	●●
	TC630-M6-A1D-	M 6	1	4.8	3	13.5	57	21	6	4	●●
	TC630-M8-A1D-	M 8	1.25	6.4	3.75	17.9	63	27	8	4	●●
	TC630-M10-A1D-	M 10	1.5	8.2	4.5	22.3	72	32	10	5	●●
	TC630-M12-A1D-	M 12	1.75	9.75	5.25	26.7	72	32	10	5	●●

Ordering example for the grade WB10TJ: TC630-M10-A1D-WB10TJ

C3

WALTER SELECT ●● Primary application ● Other application

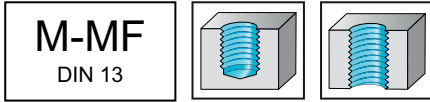
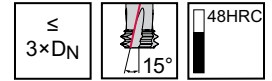
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC630-M1,2-A0F-	M 1.2	0.25	0.9	0.25	3.725	38	10	3	4	☼
	TC630-M1,4-A0F-	M 1.4	0.3	1.05	0.3	4.35	38	10	3	4	☼
	TC630-M1,6-A0F-	M 1.6	0.35	1.2	0.7	5.33	38	10	3	4	☼
	TC630-M1,8-A0F-	M 1.8	0.35	1.35	0.7	5.58	38	10	3	4	☼
	TC630-M2-A0F-	M 2	0.4	1.55	1.2	6.6	57	21	6	4	☼
	TC630-M2,2-A0F-	M 2.2	0.45	1.65	1.35	6.83	57	21	6	4	☼
	TC630-M2,5-A0F-	M 2.5	0.45	1.95	1.35	8.18	57	21	6	4	☼
	TC630-M3-A0F-	M 3	0.5	2.3	1.5	9.75	57	21	6	4	☼
	TC630-M3,5-A0F-	M 3.5	0.6	2.7	1.8	10.8	57	21	6	4	☼
	TC630-M4-A0F-	M 4	0.7	3.1	2.1	13.05	57	21	6	4	☼
	TC630-M4,5-A0F-	M 4.5	0.75	3.5	2.25	13.88	57	21	6	4	☼
	TC630-M5-A0F-	M 5	0.8	4	2.4	16.2	57	21	6	4	☼
	TC630-M6-A0F-	M 6	1	4.8	3	19.5	57	22	6	4	☼
	TC630-M8-A0F-	M 8	1.25	6.4	3.75	25.88	63	29	8	4	☼

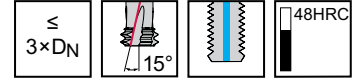
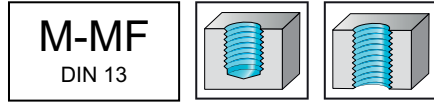
Ordering example for the grade WB10TJ: TC630-M1,2-A0F-WB10TJ

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	TC630-M5-A1F-	M 5	0.8	4	2.4	16.2	57	21	6	4	●●
	TC630-M6-A1F-	M 6	1	4.8	3	19.5	57	22	6	4	●●
	TC630-M8-A1F-	M 8	1.25	6.4	3.75	25.88	63	29	8	4	●●

DIN 6535 HA

Ordering example for the grade WB10TJ: TC630-M5-A1F-WB10TJ

C3

WALTER SELECT

●● Primary application ● Other application

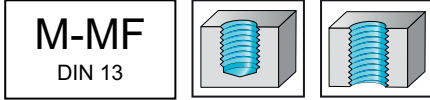
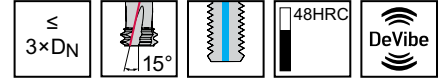
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters
- Best running smoothness due to Walter DeVibe technology



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>		TC630-M4-A5F-	M 4	0.7	3.1	2.1	13.05	57	21	6	4	☺
		TC630-M5-A5F-	M 5	0.8	4	2.4	16.2	57	21	6	4	☺
		TC630-M6-A5F-	M 6	1	4.8	3	19.5	57	21	6	4	☺
		TC630-M8-A5F-	M 8	1.25	6.4	3.75	25.88	63	29	8	4	☺
		TC630-M10-A5F-	M 10	1.5	8.2	4.5	30.75	72	34	10	5	☺
		TC630-M12-A5F-	M 12	1.75	9.75	5.25	36.88	80	40	10	5	☺
		TC630-M14-A5F-	M 14	2	11.4	6	43	92	47	12	5	☺
		TC630-M16-A5F-	M 16	2	13.3	6	49	102	54	16	6	☺
		TC630-M18-A5F-	M 18	2.5	14.75	7.5	55.25	108	60	16	6	☺

Ordering example for the grade WB10TJ: TC630-M10-A5F-WB10TJ

WALTER SELECT ●● Primary application ● Other application

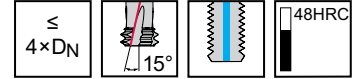
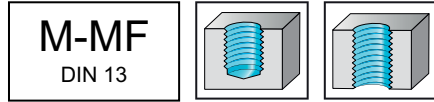
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	0
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N	P mm	D _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC630-M3-A1H-	M3	0.5	2.3	12.25	44	16	4	4	☹

Ordering example for the grade WB10TJ: TC630-M3-A1H-WB10TJ

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

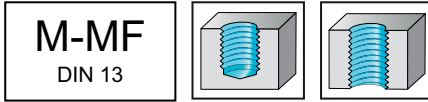
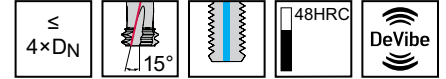
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters
- Best running smoothness due to Walter DeVibe technology



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h8 mm	Z	WB10TJ
<p>DIN 6535 HA</p>		TC630-M4-A5H-	M 4	0.7	3.1	2.1	16.35	57	21	6	4	☺
		TC630-M5-A5H-	M 5	0.8	4	2.4	20.4	57	21	6	4	☺
		TC630-M6-A5H-	M 6	1	4.8	3	24.5	65	29	6	4	☺
		TC630-M8-A5H-	M 8	1.25	6.4	3.75	32.63	72	36	8	4	☺
		TC630-M10-A5H-	M 10	1.5	8.2	4.5	40.75	85	45	10	5	☺
		TC630-M12-A5H-	M 12	1.75	9.75	5.25	48.88	92	52	10	5	☺
		TC630-M16-A5H-	M 16	2	13.3	6	65	115	70	16	6	☺

Ordering example for the grade WB10TJ: TC630-M10-A5H-WB10TJ

C3

●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

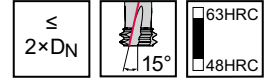
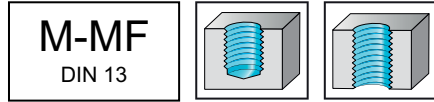
Solid carbide orbital thread mills

mm

TMO HRC



– Orbital thread milling cutters for hardened materials



	P	M	K	N	S	H	O
TAX	●●		●●		●	●●	●

Tool		P	D _c	L _c	l ₃	d ₂	l ₁	l ₄	d ₁ h6	Z
Designation		mm	mm	mm	mm	mm	mm	mm	mm	
<p>DIN 6535 HA</p>	H5083008-M2	0.4	1.55	0.6	4.6	0.98	57	21	6	3
	H5083008-M2,5	0.45	1.95	0.68	5.675	1.3	57	21	6	3
	H5083008-M3	0.5	2.3	0.75	6.75	1.6	57	21	6	3
	H5083008-M4	0.7	3.1	1.05	9.05	2.1	57	21	6	3
	H5083008-M5	0.8	4	1.2	11.2	2.9	57	21	6	4
	H5083008-M6	1	4.8	1.5	13.5	3.4	57	21	6	4

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

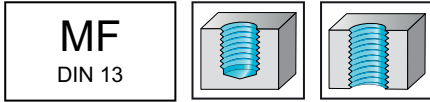
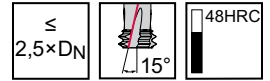
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>		TC630-M5X0,5-A0E-	M 5	0.5	4.3	1.5	12.75	57	21	6	4	☺
		TC630-M6X0,75-A0E-	M 6	0.75	5	2.25	15.38	57	21	6	4	☺
		TC630-M10X1-A0E-	M 10	1	8.55	3	25.5	72	32	10	5	☺
		TC630-M10X1,25A0E-	M 10	1.25	8.35	3.75	25.63	72	32	10	5	☺
		TC630-M14X1-A0E-	M 14	1	12	3	35.5	83	38	12	5	☺
		TC630-M14X1,5-A0E-	M 14	1.5	11.9	4.5	35.75	83	38	12	5	☺

Ordering example for the grade WB10TJ: TC630-M10X1-A0E-WB10TJ

C3

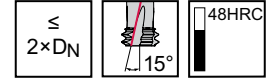
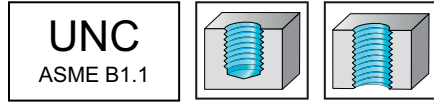
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC630-UNC1-A0D-	UNC #1-64	64	1.4	0.79	3.91	38	10	3	4	☺
	TC630-UNC2-A0D-	UNC #2-56	56	1.6	1.36	4.59	57	21	6	4	☺
	TC630-UNC4-A0D-	UNC #4-40	40	2.1	1.91	6.7	57	21	6	4	☺
	TC630-UNC6-A0D-	UNC #6-32	32	2.6	2.38	8.3	57	21	6	4	☺
	TC630-UNC8-A0D-	UNC #8-32	32	3.25	2.38	8.73	57	21	6	4	☺
	TC630-UNC10-A0D-	UNC #10-24	24	3.55	3.18	11.3	57	21	6	4	☺

Ordering example for the grade WB10TJ: TC630-UNC1-A0D-WB10TJ

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

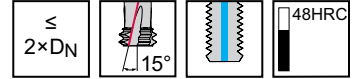
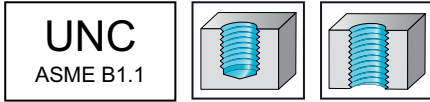
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
		TC630-UNC1/4-A1D-	UNC 1/4-20	20	4.85	3.81	14.7	57	21	6	4	☺
		TC630-UNC5/16-A1D-	UNC 5/16-18	18	6.2	4.23	18.1	63	27	8	4	☺

DIN 6535 HA

Ordering example for the grade WB10TJ: TC630-UNC1/4-A1D-WB10TJ

C3

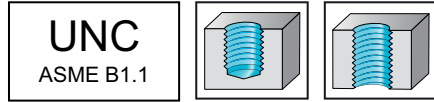
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	0
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC630-UNC1-A0F-	UNC #1-64	64	1.4	0.79	5.76	38	10	3	4	●●
	TC630-UNC2-A0F-	UNC #2-56	56	1.6	1.36	7.25	57	21	6	4	●●
	TC630-UNC3-A0F-	UNC #3-48	48	1.85	1.59	7.81	57	21	6	4	●●
	TC630-UNC4-A0F-	UNC #4-40	40	2.1	1.91	9.5	57	21	6	4	●●
	TC630-UNC6-A0F-	UNC #6-32	32	2.6	2.38	11.75	57	21	6	4	●●
	TC630-UNC8-A0F-	UNC #8-32	32	3.25	2.38	13.7	57	21	6	4	●●
	TC630-UNC10-A0F-	UNC #10-24	24	3.55	3.18	16.1	57	21	6	4	●●
	TC630-UNC1/4-A0F-	UNC 1/4-20	20	4.85	3.81	21	57	24	6	4	●●
	TC630-UNC5/16-A0F-	UNC 5/16-18	18	6.2	4.23	25.95	63	29	8	4	●●

Ordering example for the grade WB10TJ: TC630-UNC1-A0F-WB10TJ

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

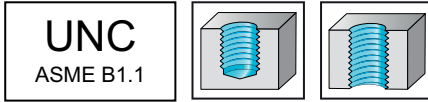
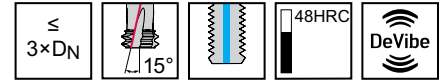
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters
- Best running smoothness due to Walter DeVibe technology



	P	M	K	N	S	H	0
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>		TC630-UNC8-A5F-	UNC #8-32	32	3.25	2.38	13.687	57	21	6	4	☼
		TC630-UNC10-A5F-	UNC #10-24	24	3.55	3.18	16.065	57	21	6	4	☼
		TC630-UNC1/4-A5F-	UNC 1/4-20	20	4.85	3.81	20.955	57	21	6	4	☼
		TC630-UNC5/16-A5F-	UNC 5/16-18	18	6.2	4.23	25.95	63	29	8	4	☼
		TC630-UNC3/8-A5F-	UNC 3/8-16	16	7.55	4.76	29.37	68	32	8	5	☼
		TC630-UNC1/2-A5F-	UNC 1/2-13	13	10.25	5.86	39.08	89	44	12	5	☼
		TC630-UNC5/8-A5F-	UNC 5/8-11	11	12.9	6.93	48.78	103	55	16	5	☼
		TC630-UNC3/4-A5F-	UNC 3/4-10	10	15.7	7.62	58.42	110	62	16	6	☼

Ordering example for the grade WB10TJ: TC630-UNC1/2-A5F-WB10TJ

C3

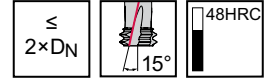
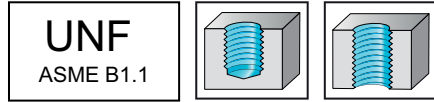
WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☼ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
	TC630-UNF10-A0D-	UNF #10-32	32	3.85	2.38	10.9	57	21	6	4	☒

DIN 6535 HA

Ordering example for the grade WB10TJ: TC630-UNF10-A0D-WB10TJ

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☒ machining conditions

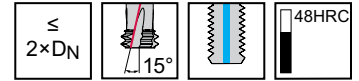
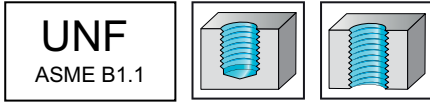
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



– Universal orbital thread milling cutters



	P	M	K	N	S	H	O
WB10TJ (AlTiN)	●●	●●	●●	●●	●●		●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
		TC630-UNF1/4-A1D-	UNF 1/4-28	28	5.25	2.72	14.1	57	21	6	4	☺
		TC630-UNF5/16-A1D-	UNF 5/16-24	24	6.55	3.18	17.5	63	27	8	4	☺
		TC630-UNF3/8-A1D-	UNF 3/8-24	24	8	3.18	20.7	63	27	8	5	☺

DIN 6535 HA

Ordering example for the grade WB10TJ: TC630-UNF1/4-A1D-WB10TJ

C3

WALTER SELECT ●● Primary application ● Other application

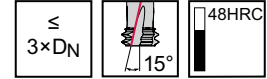
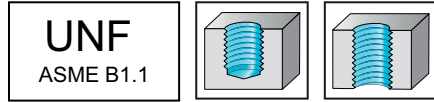
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters



	P	M	K	N	S	H	0
WB10TJ (AlTiN)	●●	●●	●●	●●	●●	●●	●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>		TC630-UNF0-A0F-	UNF #0-80	80	1.15	0.32	4.735	38	10	3	4	●●
		TC630-UNF1-A0F-	UNF #1-72	72	1.4	0.71	5.74	38	10	3	4	●●
		TC630-UNF5-A0F-	UNF #5-44	44	2.45	1.73	9.82	57	21	6	4	●●
		TC630-UNF6-A0F-	UNF #6-40	40	2.75	1.91	11.5	57	21	6	4	●●
		TC630-UNF8-A0F-	UNF #8-36	36	3.25	2.12	12.85	57	21	6	4	●●
		TC630-UNF10-A0F-	UNF #10-32	32	3.85	2.38	15.7	57	21	6	4	●●
		TC630-UNF1/4-A0F-	UNF 1/4-28	28	5.25	2.72	20.45	57	22	6	4	●●
		TC630-UNF5/16-A0F-	UNF 5/16-24	24	6.55	3.18	25.4	63	28	8	4	●●

Ordering example for the grade WB10TJ: TC630-UNF0-A0F-WB10TJ

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

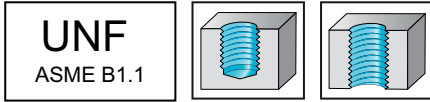
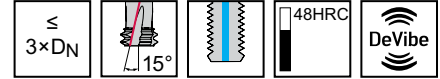
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



- Universal orbital thread milling cutters
- Best running smoothness due to Walter DeVibe technology



	P	M	K	N	S	H	O
WB10TJ (AITiN)	●●	●●	●●	●●	●●		●

Tool	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10TJ
<p>DIN 6535 HA</p>	TC630-UNF8-A5F-	UNF #8-36	36	3.25	2.12	12.85	57	21	6	4	☼
	TC630-UNF10-A5F-	UNF #10-32	32	3.85	2.38	15.669	57	21	6	4	☼
	TC630-UNF1/4-A5F-	UNF 1/4-28	28	5.25	2.72	20.411	57	21	6	4	☼
	TC630-UNF5/16-A5F-	UNF 5/16-24	24	6.55	3.18	25.4	63	27	8	4	☼
	TC630-UNF7/16-A5F-	UNF 7/16-20	20	9.4	3.81	33.98	77	37	10	5	☼
	TC630-UNF9/16-A5F-	UNF 9/16-18	18	12	4.23	43.57	91	46	12	5	☼
	TC630-UNF3/4-A5F-	UNF 3/4-16	16	16.6	4.76	57.95	110	62	18	6	☼

Ordering example for the grade WB10TJ: TC630-UNF1/4-A5F-WB10TJ

C3

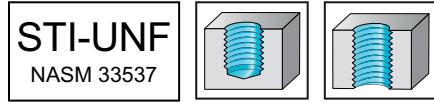
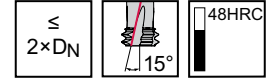
WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



- Specialist for aerospace industry
- Ideal for engine components



	P	M	K	N	S	H	O
WB10RA (TAX)	●	●●	●	●	●●		●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RA
		TC630-SUNF10-A0D-	STIUNF #10-32	32	4.85	2.38	12.12	57	21	6	4	☼
		TC630-SUNF1/4-A0D-	STIUNF 1/4-28	28	6.3	2.72	15.52	63	27	8	4	☼
		TC630-SUNF5/16A0D-	STIUNF 5/16-24	24	7.85	3.17	19.16	63	27	8	5	☼
		TC630-SUNF3/8-A0D-	STIUNF 3/8-24	24	9.35	3.17	22.33	72	32	10	5	☼

DIN 6535 HA

Ordering example for the grade WB10RA: TC630-SUNF1/4-A0D-WB10RA

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = 😐 → Poor = ☹ machining conditions

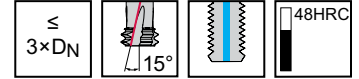
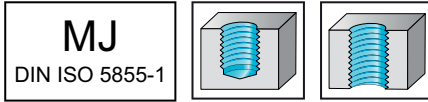
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



– Specialist for aerospace industry



	P	M	K	N	S	H	O
WB10RA (TAX)	●	●●	●	●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RA
		TC630-MJ4-A1F-	MJ 4	0.7	3.1	2.1	12.35	57	21	6	4	☹
		TC630-MJ5-A1F-	MJ 5	0.8	4	2.4	15.4	57	21	6	4	☹
		TC630-MJ6-A1F-	MJ 6	1	4.8	3	18.5	57	21	6	4	☹
		TC630-MJ8-A1F-	MJ 8	1.25	6.4	3.75	24.625	63	27	8	4	☹
		TC630-MJ10-A1F-	MJ 10	1.5	8.2	4.5	30.75	72	32	10	5	☹

DIN 6535 HA

Ordering example for the grade WB10RA: TC630-MJ10-A1F-WB10RA

C3

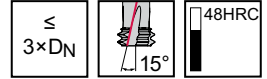
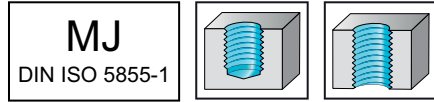
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Specialist for aerospace industry



	P	M	K	N	S	H	O
WB10RA (TAX)	●	●●	●	●	●●		●

Tool		Designation	D _N	P mm	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RA
		TC630-MJ3-A0F-	MJ 3	0.5	2.3	1.5	9.25	57	21	6	4	☼
DIN 6535 HA												

Ordering example for the grade WB10RA: TC630-MJ3-A0F-WB10RA

C3

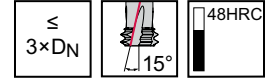
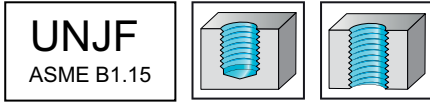
WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Specialist for aerospace industry



	P	M	K	N	S	H	O
WB10RA (TAX)	●	●●	●	●	●●		●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RA
		TC630-UNJF4-A0F-	UNJF #4-48	48	2.2	1.59	8.799	57	21	6	4	☺
		TC630-UNJF6-A0F-	UNJF #6-40	40	2.75	1.91	10.833	57	21	6	4	☺

DIN 6535 HA

Ordering example for the grade WB10RA: TC630-UNJF4-A0F-WB10RA

C3

WALTER SELECT ●● Primary application ● Other application

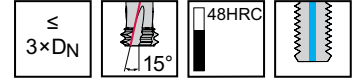
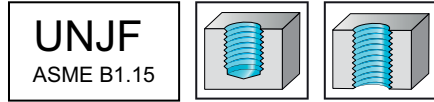
Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Specialist for aerospace industry



	P	M	K	N	S	H	O
WB10RA (TAX)	●	●●	●	●	●●		●

Tool	Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RA
<p>DIN 6535 HA</p>	TC630-UNJF8-A1F-	UNJF #8-36	36	3.25	2.12	12.85	57	21	6	4	☼
	TC630-UNJF10-A1F-	UNJF #10-32	32	3.85	2.38	14.875	57	21	6	4	☼
	TC630-UNJF1/4-A1F-	UNJF 1/4-28	28	5.25	2.72	19.504	57	21	6	4	☼
	TC630UNJF5/16-A1F-	UNJF 5/16-24	24	6.55	3.18	24.342	63	27	8	4	☼
	TC630-UNJF3/8-A1F-	UNJF 3/8-24	24	8.2	3.18	29.104	72	32	10	5	☼
	TC630UNJF7/16-A1F-	UNJF 7/16-20	20	9.4	3.81	33.973	77	37	10	5	☼
	TC630-UNJF1/2-A1F-	UNJF 1/2-20	20	11	3.81	38.735	87	42	12	5	☼
	TC630UNJF9/16-A1F-	UNJF 9/16-18	18	12	4.23	43.568	91	46	12	5	☼

Ordering example for the grade WB10RA: TC630-UNJF1/2-A1F-WB10RA

C3

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

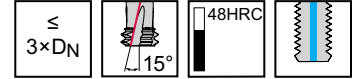
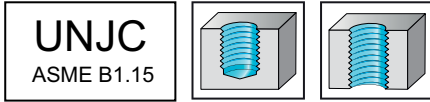
●● Primary application ● Other application

Solid carbide orbital thread mills

TC630 Supreme



– Specialist for aerospace industry



	P	M	K	N	S	H	O
WB10RA (TAX)	●	●●	●	●	●●		●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RA
<p>DIN 6535 HA</p>		TC630-UNJC8-A1F-	UNJC #8-32	32	3.25	2.38	12.894	57	21	6	4	☺
		TC630-UNJC10-A1F-	UNJC #10-24	24	3.55	3.18	15.007	57	21	6	4	☺
		TC630-UNJC1/4-A1F-	UNJC 1/4-20	20	4.85	3.81	19.685	57	21	6	4	☺
		TC630UNJC5/16-A1F-	UNJC 5/16-18	18	6.2	4.23	24.518	63	27	8	4	☺
		TC630-UNJC3/8-A1F-	UNJC 3/8-16	16	7.55	4.76	29.369	68	32	8	5	☺
		TC630UNJC7/16-A1F-	UNJC 7/16-14	14	8.9	5.44	34.245	79	39	10	5	☺
		TC630-UNJC1/2-A1F-	UNC 1/2-13	13	10.25	5.86	39.077	90	45	12	5	☺
		TC630UNJC9/16-A1F-	UNJC 9/16-12	12	11.6	6.35	43.921	92	47	12	5	☺

Ordering example for the grade WB10RA: TC630-UNJC1/2-A1F-WB10RA

C3

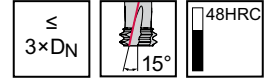
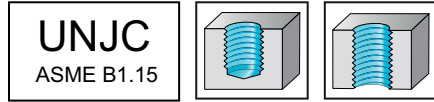
●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹☹ machining conditions

Solid carbide orbital thread mills

TC630 Supreme



– Specialist for aerospace industry



	P	M	K	N	S	H	O
WB10RA (TAX)	●	●●	●	●	●●		●

Tool		Designation	D _N -P	Threads per inch	D _c mm	L _c mm	l ₃ mm	l ₁ mm	l ₄ mm	d ₁ h6 mm	Z	WB10RA
		TC630-UNJC4-A0F-	UNJC #4-40	40	2.1	1.91	8.852	57	21	6	4	☺
		TC630-UNJC6-A0F-	UNJC #6-32	32	2.6	2.38	10.912	57	21	6	4	☺

DIN 6535 HA

Ordering example for the grade WB10RA: TC630-UNJC4-A0F-WB10RA

C3

WALTER SELECT

Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ / ★

●● Primary application ● Other application

Thread milling cutters with indexable insert

Machining

Thread depth	1.5 x D _N	2 x D _N	2.5 x D _N	3 x D _N
--------------	----------------------	--------------------	----------------------	--------------------



Designation	T2710	T2711	T2712	T2713
Thread type				
M	✓	✓	✓	✓
MF	✓	✓	✓	✓
UNC / UNF / UN-8	✓	✓	✓	✓
G / Rc / Rp			✓	✓
MJ / UNJC / UNJF				
NPT / NPTF				
Pg / BSW / Tr				
STI / Eg / thread insert	✓	✓	✓	✓
Additional services				
Coolant supply	radial	radial	radial	radial
Coating / grade				
Cutting tool material	Stahl	Stahl	Stahl	Stahl
P Steel	●●	●●	●●	●●
M Stainless steel	●●	●●	●●	●●
K Cast iron	●●	●●	●●	●●
N NF metals	●	●	●	●
S Materials with difficult cutting properties	●●	●●	●●	●●
H Hard materials	●	●	●	●
O Other	●	●	●	●
Page in catalog	C 470	C 474	C 482	C 484
QR code				
www.walter-tools.com/woc/	T2710	T2711	T2712	T2713

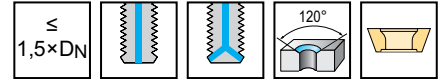
C3

Indexable insert thread milling cutter

T2710



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2710	●	●	●	●	●	●	●

Tool

Designation	D _N	P _{max} mm	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
T2710-17-W16-3-06-2-15	M 20	2.5	16.5	15	33	88	16	3	6	P26300-06 ..
T2710-19-W20-3-06-3-12	M 24	3	19	12	39.1	98	20	3	9	P26300-06 ..
T2710-24-W25-3-09-3-14	M 30	3.5	24	14	49.5	117	25	3	9	P26300-09 ..
T2710-29-W32-3-09-3-16	M 36	4	29	16	58.5	131	32	3	9	P26300-09 ..
T2710-35-W32-3-11-3-18	M 42	4.5	35	18	68.5	139	32	3	9	P26300-11 ..
T2710-40-W40-3-14-3-20	M 48	5	40	20	79	163	40	3	9	P26300-14 ..
T2710-44-W40-3-14-3-22	M 56	5.5	44	22	91	174	40	3	9	P26300-14 ..
T2710-52-W40-4-14-3-24	M 64	6	52	24	103	185	40	4	12	P26300-14 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

D _c [mm]	16.5–19	24–29	35	40–52
Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0.6 Nm	FS2111 (T7IP) 0.9 Nm	FS2061 (T7IP) 0.9 Nm	FS1457 (T9IP) 2 Nm

Accessories

D _c [mm]	16.5–19	24–35	40–52
Torque screwdriver, analog	FS2001	FS2001	FS2003
Torque screwdriver, digital			FS2248
Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)
Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC	WSM37G	HC	WSM37G	HC	WSM37G	HC	WSM37G	HC	WSM37G	HC	WSM37G
	P26300-0601-D61	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0901-D61	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0902-D61	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1101-D61	11	0.1	1.40–2.90	9-18	10.85	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1102-D61	11	0.2	3.00–4.50	6-8	10.71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1401-D61	14	0.1	1.40–2.90	9-18	13.87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1402-D61	14	0.2	3.00–5.20	5-8	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1404-D61	14	0.4	5.50–6.40	4-5	13.43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0601-D67	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0901-D67	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0902-D67	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1102-D67	11	0.2	3.00–4.50	6-8	10.71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1401-D67	14	0.1	1.40–2.90	9-18	13.87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1402-D67	14	0.2	3.00–5.20	5-8	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1404-D67	14	0.4	5.50–6.40	4-5	13.43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

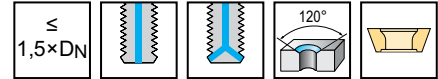
HC = Coated carbide

Indexable insert thread milling cutter

T2710



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2710	●	●	●	●	●	●	●

Tool	Designation	D_N	P_{max} TPI in	D_c mm	l_{21} mm	l_3 mm	l_1 mm	d_1 mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2710-18-W16-3-06-2-11.3	UNC 7/8-9	9	18	11.3	36.5	92	16	3	6	P26300-06 ..
	T2710-20-W20-3-06-3-12.7	UNC 1-8	8	20	12.7	41.1	100	20	3	9	P26300-06 ..
 DIN 1835 B	T2710-26-W25-3-09-3-12.7	UN 1.1/4-8	8	26	12.7	52.2	119	25	3	9	P26300-09 ..
	T2710-31-W32-3-09-3-19.1	UN 1.1/2-8	8	31	19.1	63.7	135	32	3	9	P26300-09 ..
	T2710-43-W40-4-09-3-25.4	UN 2-6	6	43	25.4	80.7	160	40	4	12	P26300-09 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

	D _c [mm]	18–20	26–43
	Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0.6 Nm	FS2111 (T7IP) 0.9 Nm

Accessories

	D _c [mm]	18–20	26–43
	Torque screwdriver, analog	FS2001	FS2001
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC	WSM37G	HC	WSM37S	HC	WSM37G	HC	WSM37G	HC	WSM37S	HC	WSM37G
 P26300-0601-D61 P26300-0602-D61 P26300-0901-D61 P26300-0902-D61	06	0.1	1.40–2.90	9-18	6.73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	06	0.2	3.00–3.20	8	6.58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.1	1.40–2.90	9-18	9.48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.2	3.00–4.30	6-8	9.34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
 P26300-0601-D67 P26300-0602-D67 P26300-0901-D67 P26300-0902-D67	06	0.1	1.40–2.90	9-18	6.73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	06	0.2	3.00–3.20	8	6.58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.1	1.40–2.90	9-18	9.48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.2	3.00–4.30	6-8	9.34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

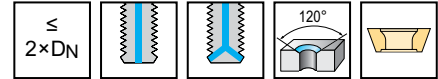
HC = Coated carbide

Indexable insert thread milling cutter

T2711



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●

Tool

Designation	D _N	P _{max} mm	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
T2711-13-W16-1-06	M 16	2	13		35	92	16	1	1	P26300-06 ..
T2711-15-W16-2-06	M 18	2.5	14.5		39	95	16	2	2	
T2711-17-W16-3-06-2-20	M 20	2.5	16.5	20	43	98	16	3	6	P26300-06 ..
T2711-19-W20-3-06-2-24	M 24	3	19	24	51	110	20	3	6	
T2711-24-W25-3-09-2-31.5	M 30	3.5	24	31.5	64.5	132	25	3	6	P26300-09 ..
T2711-52-W40-4-14-2-60	M 64	6	52	60	135	217	40	4	8	P26300-14 ..
T2711-29-W32-3-09-3-24	M 36	4	29	24	72.1	149	32	3	9	P26300-09 ..
T2711-35-W32-3-11-3-27	M 42	4.5	35	27	89.5	160	32	3	9	P26300-11 ..
T2711-40-W40-3-14-3-30	M 48	5	40	30	103	187	40	3	9	P26300-14 ..
T2711-44-W40-3-14-3-33	M 56	5.5	44	33	119	202	40	3	9	

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

D _c [mm]	13–19	24–29	35	40–52
	Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0.6 Nm		
	Clamping screw for indexable insert		FS2111 (T7IP) 0.9 Nm	FS1457 (T9IP) 2 Nm

Accessories

D _c [mm]	13–19	24–35	40–52	
	Torque screwdriver, analog	FS2001	FS2001	FS2003
	Torque screwdriver, digital			FS2248
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC	HC	HC	HC	HC	HC	HC	HC	HC	HC		
							WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S
	P26300-0601-D61	06	0.1	1.40–2.90	9-18	6.73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0901-D61	09	0.1	1.40–2.90	9-18	9.48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0902-D61	09	0.2	3.00–4.30	6-8	9.34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1401-D61	14	0.1	1.40–2.90	9-18	13.87	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1402-D61	14	0.2	3.00–5.20	5-8	13.72	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1404-D61	14	0.4	5.50–6.40	4-5	13.43	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1101-D61	11	0.1	1.40–2.90	9-18	10.85	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1102-D61	11	0.2	3.00–4.50	6-8	10.71	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0601-D67	06	0.1	1.40–2.90	9-18	6.73	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0901-D67	09	0.1	1.40–2.90	9-18	9.48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-0902-D67	09	0.2	3.00–4.30	6-8	9.34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1401-D67	14	0.1	1.40–2.90	9-18	13.87	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1402-D67	14	0.2	3.00–5.20	5-8	13.72	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	P26300-1404-D67	14	0.4	5.50–6.40	4-5	13.43	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
P26300-1102-D67	11	0.2	3.00–4.50	6-8	10.71	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

→ Very good = ☺

→ Good = ☹

→ Moderate = ☹

☺ ☹ ☹ / * = New addition to the product range

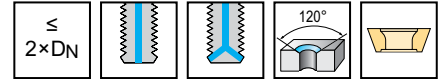
Thread milling cutters with indexable inserts

Indexable insert thread milling cutter

T2711



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●

Tool	Designation	D _N	P _{max} TPI in	D _c mm	l ₂₁ mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2711-16-W16-2-06	UNC 3/4-10	10	15.5		41	97	16	2	2	P26300-06 ..
	T2711-18-W16-3-06-2-25.4	UNC 7/8-9	9	18	25.4	47.5	103	16	3	6	P26300-06 ..
 DIN 1835 B	T2711-20-W20-3-06-2-25.4	UNC 1-8	8	20	25.4	53.9	113	20	3	6	P26300-09 ..
	T2711-26-W25-3-09-2-32.7	UNC 1.1/4-7	7	26	32.7	68	135	25	3	6	P26300-09 ..
 DIN 1835 B	T2711-31-W32-3-09-3-25.4	UNC 1.1/2-6	6	31	25.4	80.7	153	32	3	9	P26300-09 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

	D _c [mm]	15.5–20	26–31
	Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0.6 Nm	
	Clamping screw for indexable insert		FS2111 (T7IP) 0.9 Nm

Accessories

	D _c [mm]	15.5–20	26–31
	Torque screwdriver, analog	FS2001	FS2001
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							WSM376 HC	WSM375 HC	WSM376 HC	WSM375 HC	WSM376 HC	WSM375 HC	WSM376 HC	WSM375 HC	WSM376 HC	WSM375 HC		
	P26300-0601-D61	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0901-D61	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0902-D61	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0601-D67	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0901-D67	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0902-D67	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

Indexable insert thread milling cutter

T2712

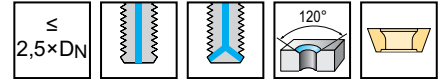
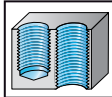


- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information

M-MF
DIN 13

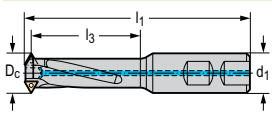
**UNC/UNF
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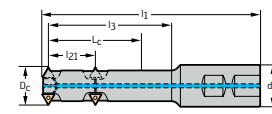
	P	M	K	N	S	H	O
T2712	●	●	●	●	●	●	●

Tool



DIN 1835 B

Designation	D _N	P _{max} mm	D _c mm	l ₂₁ mm	L _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
T2712-13-W16-1-06	M 16	2	13			43	100	16	1	1	P26300-06 ..
T2712-17-W16-3-06	M 20	2.5	16.5			53	108	16	3	3	
T2712-19-W20-3-06	M 24	3	19			63	123	20	3	3	
T2712-24-W25-3-09	M 30	3.5	24			79.5	148	25	3	3	P26300-09 ..
T2712-29-W32-3-09	M 36	4	29			94.5	167	32	3	3	
T2712-35-W32-3-11	M 42	4.5	35			110.5	181	32	3	3	P26300-11 ..
T2712-40-W40-3-14	M 48	5	40			127	211	40	3	3	P26300-14 ..
T2712-44-W40-3-14	M 56	5.5	44			147	230	40	3	3	
T2712-52-W40-4-14	M 64	6	52			167	249	40	4	4	
T2712-24-W25-3-09-2-31.5	M 30	3.5	24	31.5	63	79.5	147	25	3	6	P26300-09 ..
T2712-29-W32-3-09-2-36	M 36	4	29	36	72	94.5	167	32	3	6	
T2712-35-W32-3-11-2-40.5	M 42	4.5	35	40.5	81	110.5	180	32	3	6	P26300-11 ..
T2712-40-W40-3-14-2-50	M 48	5	40	50	100	127	211	40	3	6	P26300-14 ..



DIN 1835 B

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

D _c [mm]	13–19	24–29	35	40–52
Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0.6 Nm	FS2111 (T7IP) 0.9 Nm	FS2061 (T7IP) 0.9 Nm	FS1457 (T9IP) 2 Nm

Accessories

D _c [mm]	13–19	24–35	40–52
Torque screwdriver, analog	FS2001	FS2001	FS2003
Torque screwdriver, digital			FS2248
Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)
Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC		HC		HC		HC		HC		HC	
							WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S
	P26300-0601-D61	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0901-D61	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0902-D61	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1101-D61	11	0.1	1.40–2.90	9-18	10.85	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1102-D61	11	0.2	3.00–4.50	6-8	10.71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1401-D61	14	0.1	1.40–2.90	9-18	13.87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1402-D61	14	0.2	3.00–5.20	5-8	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1404-D61	14	0.4	5.50–6.40	4-5	13.43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0601-D67	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0901-D67	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0902-D67	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1102-D67	11	0.2	3.00–4.50	6-8	10.71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1401-D67	14	0.1	1.40–2.90	9-18	13.87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1402-D67	14	0.2	3.00–5.20	5-8	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1404-D67	14	0.4	5.50–6.40	4-5	13.43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26310-09G11-D61	09	0.2	2.30–2.30	11	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26310-14G11-D61	14	0.2	2.30–2.30	11	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

→ Very good = ☺

→ Good = ☺

→ Moderate = ☺

☺ ☺ ☺ / * = New addition to the product range

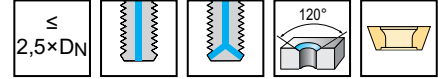
Thread milling cutters with indexable inserts

Indexable insert thread milling cutter

T2712



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2712	●	●	●	●	●	●	●

Tool	Designation	D _N	P _{max} TPI in	D _c mm	l ₂₁ mm	L _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
												P26300-09 ..
	T2712-26-W25-3-09-2-32.7	UNC 1 1/4-7	7	26	32.7	65.3	84	151	25	3	6	P26300-09 ..
	T2712-31-W32-3-09-2-38.1	UNC 1 1/2-6	6	31	38.1	76.2	99.8	172	32	3	6	P26300-09 ..

DIN 1835 B

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

	D _c [mm] Clamping screw for indexable insert Tightening torque	26-31 FS2111 (T7IP) 0.9 Nm
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Accessories

	D _c [mm] Torque screwdriver, analog	26-31 FS2001
	Interchangeable blade	FS2011 (T7IP)
	Screwdriver	FS2088 (T7IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S
 P26300-0901-D61 P26300-0902-D61	09	0.1	1.40-2.90	9-18	9.48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.2	3.00-4.30	6-8	9.34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
 P26300-0901-D67 P26300-0902-D67	09	0.1	1.40-2.90	9-18	9.48	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.2	3.00-4.30	6-8	9.34	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

HC = Coated carbide

Indexable insert thread milling cutter

T2712

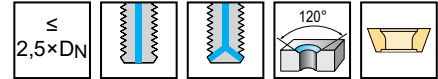
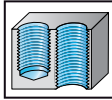


- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information

M-MF
DIN 13

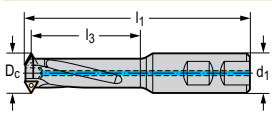
**UNC/UNF
UN**
ASME B1.1

G (BSP)
DIN EN ISO 228



	P	M	K	N	S	H	O
T2712	●	●	●	●	●	●	●

Tool



DIN 1835 B

Designation	D_N	P_{max} mm	D_c mm	l_3 mm	l_1 mm	d_1 mm	Z	Number of cutting edges	Type
T2712-13-W16-1-06	M 16	2	13	43	100	16	1	1	P26300-06 ..
T2712-17-W16-3-06	M 20	2.5	16.5	53	108	16	3	3	
T2712-19-W20-3-06	M 24	3	19	63	123	20	3	3	
T2712-24-W25-3-09	M 30	3.5	24	79.5	148	25	3	3	P26300-09 ..
T2712-29-W32-3-09	M 36	4	29	94.5	167	32	3	3	
T2712-35-W32-3-11	M 42	4.5	35	110.5	181	32	3	3	P26300-11 ..
T2712-40-W40-3-14	M 48	5	40	127	211	40	3	3	P26300-14 ..
T2712-44-W40-3-14	M 56	5.5	44	147	230	40	3	3	
T2712-52-W40-4-14	M 64	6	52	167	249	40	4	4	

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

Assembly parts

D _c [mm]	13–19	24–29	35	40–52
Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0.6 Nm	FS2111 (T7IP) 0.9 Nm	FS2061 (T7IP) 0.9 Nm	FS1457 (T9IP) 2 Nm

Accessories

D _c [mm]	13–19	24–35	40–52
Torque screwdriver, analog	FS2001	FS2001	FS2003
Torque screwdriver, digital			FS2248
Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)
Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H		
							HC		HC		HC		HC		HC		HC		
							WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	
	P26300-0601-D61	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0901-D61	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0902-D61	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-1101-D61	11	0.1	1.40–2.90	9-18	10.85	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-1102-D61	11	0.2	3.00–4.50	6-8	10.71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1401-D61	14	0.1	1.40–2.90	9-18	13.87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1402-D61	14	0.2	3.00–5.20	5-8	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
P26300-1404-D61	14	0.4	5.50–6.40	4-5	13.43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0601-D67	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0602-D67	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0901-D67	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-0902-D67	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-1102-D67	11	0.2	3.00–4.50	6-8	10.71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-1401-D67	14	0.1	1.40–2.90	9-18	13.87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1402-D67	14	0.2	3.00–5.20	5-8	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1404-D67	14	0.4	5.50–6.40	4-5	13.43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26310-09G11-D61	09	0.2	2.30–2.30	11	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26310-14G11-D61	14	0.2	2.30–2.30	11	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺

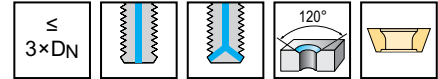
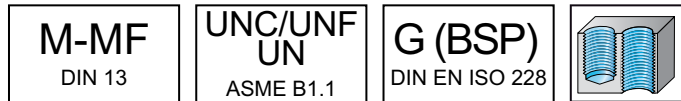
HC = Coated carbide

Indexable insert thread milling cutter

T2713 mm



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2713	●	●	●	●	●	●	●

Tool	Designation	D _N	P _{max} mm	D _c mm	l ₃ mm	l ₁ mm	d ₁ mm	Z	Number of cutting edges	Type
 DIN 1835 B	T2713-17-W16-3-06	M 20	2.5	16.5	63	118	16	3	3	P26300-06 ..
	T2713-19-W20-3-06	M 24	3	19	75	135	20	3	3	
	T2713-24-W25-3-09	M 30	3.5	24	94.5	163	25	3	3	P26300-09 ..
	T2713-29-W32-3-09	M 36	4	29	112.5	185	32	3	3	
	T2713-35-W32-3-11	M 42	4.5	35	131.5	202	32	3	3	P26300-11 ..
	T2713-40-W40-3-14	M 48	5	40	151	235	40	3	3	P26300-14 ..
	T2713-44-W40-3-14	M 56	5.5	44	175	258	40	3	3	
 Walter Capto™ in acc. with ISO 26623	T2713-52-W40-4-14	M 64	6	52	199	281	40	4	4	
	T2713-60-C5-4-14	M 72	6	60	115	152	50	4	4	P26300-14 ..
	T2713-73-C6-5-14	M 85	6	73	125	170	63	5	5	
	T2713-94-C8-5-22	M 125	10	94	140	199	80	5	5	P26300-22 ..

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

C3

Assembly parts

D _c [mm]	16.5–19	24–29	35	40–73	94
Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0.6 Nm	FS2111 (T7IP) 0.9 Nm	FS2061 (T7IP) 0.9 Nm	FS1457 (T9IP) 2 Nm	FS1495 (T20IP) 5 Nm
Torque screwdriver, digital					FS2248

Accessories

D _c [mm]	16.5–19	24–35	40–73	94
Torque screwdriver, analog	FS2001	FS2001	FS2003	FS2003
Torque screwdriver, digital			FS2248	
Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)	FS2013 (T9IP)	FS2015 (T20IP)
Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)	FS1484 (T9IP)	FS1486 (T20IP)

Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P		M		K		N		S		H	
							HC	WSM37G	HC	WSM37S	HC	WSM37G	HC	WSM37S	HC	WSM37G	HC	WSM37S
	P26300-0601-D61	06	0.1	1.40–2.90	9-18	6.73	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0602-D61	06	0.2	3.00–3.20	8	6.58	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0901-D61	09	0.1	1.40–2.90	9-18	9.48	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-0902-D61	09	0.2	3.00–4.30	6-8	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1101-D61	11	0.1	1.40–2.90	9-18	10.85	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1102-D61	11	0.2	3.00–4.50	6-8	10.71	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1401-D61	14	0.1	1.40–2.90	9-18	13.87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1402-D61	14	0.2	3.00–5.20	5-8	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-1404-D61	14	0.4	5.50–6.40	4-5	13.43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26300-2204-D61	22	0.4	6.00–10.00	3-4	21.41	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺
	P26310-09G11-D61	09	0.2	2.30–2.30	11	9.34	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26310-14G11-D61	14	0.2	2.30–2.30	11	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-1401-D67	14	0.1	1.40–2.90	9-18	13.87	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-1402-D67	14	0.2	3.00–5.20	5-8	13.72	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	P26300-1404-D67	14	0.4	5.50–6.40	4-5	13.43	3	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	

HC = Coated carbide

WALTER SELECT

Stability of machine, workpiece and clamping arrangement

→ Very good = ☺

→ Good = ☺

→ Moderate = ☺

☺ ☺ ☺ / * = New addition to the product range

Thread milling cutters with indexable inserts

C 485

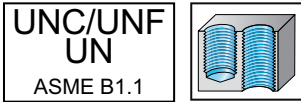
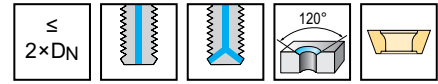
C3

Indexable insert thread milling cutter

T2711 / T2712 inch



- Universal indexable insert thread milling cutter
- Radius correction values: Walter GPS/Technical information



	P	M	K	N	S	H	O
T2711	●	●	●	●	●	●	●
T2712	●	●	●	●	●	●	●

Tool

Designation	D _N	P _{max} TPI in	D _c inch	l ₂₁ inch	l ₃ inch	l ₁ inch	d ₁ inch	Z	Number of cutting edges	Type
 T2711,20-W19-3-06-2-25.4 T2711,26-W26-3-09-2-32.7 DIN 1835 B	UNC 1	8	0.787	1.000	2.122	4.461	0.750	3	6	P26300-06 ..
	UNC 1.1/4-7	7	1.024	1.286	2.677	5.299	1.000	3	6	P26300-09 ..
 T2711,31-W31-3-09-3-25.4 DIN 1835 B	UNC 1.1/2-6	6	1.22	1.000	3.177	5.892	1.250	3	9	P26300-09 ..
 T2712,20-W19-3-06 T2712,23-W26-3-09 T2712,28-W31-3-09 DIN 1835 B	UNC 1	8	0.787		2.618	4.953	0.750	3	3	P26300-06 ..
	UNC 1 1/8	7	0.886		2.992	5.675	1.000	3	3	P26300-09 ..
	UNC 1 3/8	6	1.083		3.622	6.482	1.250	3	3	

Adjustable coolant supply: remove front coolant screw for blind hole machining | Bodies and assembly parts are included in the scope of delivery

Assembly parts

	D _c [inch]	0.787	0.886-1.22
	Clamping screw for indexable insert Tightening torque	FS2147 (T6IP) 0.443 lbs	FS2111 (T7IP) 0.664 lbs

Accessories

	D _c [inch]	0.787	0.886-1.22
	Torque screwdriver, analog	FS2002	FS2002
	Interchangeable blade	FS2085 (T6IP)	FS2011 (T7IP)
	Screwdriver	FS2086 (T6IP)	FS2088 (T7IP)

Indexable inserts

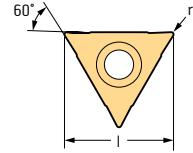
Designation	Size	r inch	Pitch (P) inch	Lead (TPI) in	l inch	Number of cutting edges	P		M		K		N		S		H	
							HC	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G	WSM37S	WSM37G
 P26300-0601-D61 P26300-0602-D61 P26300-0901-D61 P26300-0902-D61	06	0.004	0.055-0.114	9-18	0.265	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	06	0.008	0.118-0.126	8	0.259	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.004	0.055-0.114	9-18	0.373	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.008	0.118-0.169	6-8	0.368	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
 P26300-0601-D67 P26300-0602-D67 P26300-0901-D67 P26300-0902-D67	06	0.004	0.055-0.114	9-18	0.265	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	06	0.008	0.118-0.126	8	0.259	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.004	0.055-0.114	9-18	0.373	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
	09	0.008	0.118-0.169	6-8	0.368	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑
 P26310-09G11-D61	09	0.008	0.091-0.091	11	0.368	3	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑	☑

HC = Coated carbide


Thread milling cutter inserts – M, MF, UNC, UNF, UN

P26300

Tiger-tec® Gold



Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
							HC	HC	HC	HC	HC	HC
							WSM37G	WSM37G	WSM37G	WSM37G	WSM37G	WSM37G
 P26300-0601-D67	06	0,1	1.40-2.9	18-9	6,73	3	☑	☑	☑	☑	☑	☑
P26300-0602-D67	06	0,2	3.00-3.2	8-8	6,58	3	☑	☑	☑	☑	☑	☑
P26300-0901-D67	09	0,1	1.40-2.9	18-9	9,48	3	☑	☑	☑	☑	☑	☑
P26300-0902-D67	09	0,2	3.00-4.3	8-6	9,34	3	☑	☑	☑	☑	☑	☑
P26300-1102-D67	11	0,2	3.00-4.5	8-6	10,71	3	☑	☑	☑	☑	☑	☑
P26300-1401-D67	14	0,1	1.40-2.9	18-9	13,87	3	☑	☑	☑	☑	☑	☑
P26300-1402-D67	14	0,2	3.00-5.2	8-5	13,72	3	☑	☑	☑	☑	☑	☑
P26300-1404-D67	14	0,4	5.50-6.4	5-4	13,43	3	☑	☑	☑	☑	☑	☑
P26300-0601-D61	06	0,1	1.40-2.9	18-9	6,73	3	☑	☑	☑	☑	☑	☑
P26300-0602-D61	06	0,2	3.00-3.2	8-8	6,58	3	☑	☑	☑	☑	☑	☑
P26300-0901-D61	09	0,1	1.40-2.9	18-9	9,48	3	☑	☑	☑	☑	☑	☑
P26300-0902-D61	09	0,2	3.00-4.3	8-6	9,34	3	☑	☑	☑	☑	☑	☑
P26300-1101-D61	11	0,1	1.40-2.9	18-9	10,85	3	☑	☑	☑	☑	☑	☑
P26300-1102-D61	11	0,2	3.00-4.5	8-6	10,71	3	☑	☑	☑	☑	☑	☑
P26300-1401-D61	14	0,1	1.40-2.9	18-9	13,87	3	☑	☑	☑	☑	☑	☑
P26300-1402-D61	14	0,2	3.00-5.2	8-5	13,72	3	☑	☑	☑	☑	☑	☑
P26300-1404-D61	14	0,4	5.50-6.4	5-4	13,43	3	☑	☑	☑	☑	☑	☑
P26300-2204-D61	22	0,4	6.00-10.0	4-3	21,41	3	☑	☑	☑	☑	☑	☑

Ordering example for the grade WSM37G: P26300-0601-D67 WSM37G

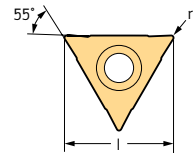
HC = Coated carbide

C3


Thread milling cutter inserts – G (BSP)

P26310

Tiger-tec® Gold



Indexable inserts

Designation	Size	r mm	Pitch (P) mm	Lead (TPI) in	l mm	Number of cutting edges	P	M	K	N	S	H
							HC	HC	HC	HC	HC	HC
							WSM37G	WSM37G	WSM37G	WSM37G	WSM37G	WSM37G
 P26310-09G11-D61	09	0,2	2.30-2.3	11-11	9,34	3	☑	☑	☑	☑	☑	☑
P26310-14G11-D61	14	0,2	2.30-2.3	11-11	13,72	3	☑	☑	☑	☑	☑	☑

Ordering example for the grade WSM37G: P26310-09G11-D61 WSM37G

HC = Coated carbide

Dies

mm

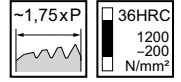
Protocut®



- For long- and short-chipping materials

M
DIN 13

6g



uncoated	P	M	K	N	S	H	O
	●●			●●			

Tool	Designation - D _N uncoated	D mm	l ₁ mm	N
	60000-M1	16	5	3
	60000-M1,2	16	5	3
	60000-M1,4	16	5	3
	60000-M1,6	16	5	3
	60000-M2	16	5	3
	60000-M2,5	16	5	3
	60000-M3	20	5	3
	60000-M4	20	5	3
	60000-M5	20	7	4
	60000-M6	20	7	4
	60000-M8	25	9	4
	60000-M10	30	11	4
	60000-M12	38	14	4
	60000-M14	38	14	5
	60000-M16	45	18	5
	60000-M20	45	18	5
	60000-M24	55	22	5
	60000-M30	65	25	6

≤ M 1.4: 6 h, ≥ M 1.6: 6g

C4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Dies

mm

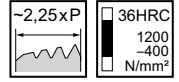
Protocut® Inox



- For long-chipping materials

M
DIN 13

6g



uncoated

P	M	K	N	S	H	O
●●	●●					

Tool	Designation - D _N uncoated	D mm	l ₁ mm	N
	60003-M2	16	5	4
	60003-M2,5	16	5	4
	60003-M3	20	5	4
	60003-M3,5	20	5	4
	60003-M4	20	5	4
	60003-M5	20	7	4
	60003-M6	20	7	4
	60003-M7	25	9	4
	60003-M8	25	9	5
	60003-M10	30	11	5
	60003-M12	38	14	5
	60003-M14	38	14	5
	60003-M16	45	18	5
	60003-M18	45	18	5
	60003-M20	45	18	5

C4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Dies

mm

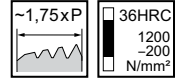
Protocut®



- For long- and short-chipping materials

MF
DIN 13

6g



	P	M	K	N	S	H	O
uncoated	●●			●●			

Tool	Designation - D _N uncoated	D mm	l ₁ mm	N
	61000-M5X0,5	20	5	4
	61000-M6X0,5	20	5	4
	61000-M6X0,75	20	7	4
	61000-M8X0,75	25	9	5
	61000-M8X1	25	9	5
	61000-M10X1	30	11	5
	61000-M10X1,25	30	11	5
	61000-M12X1	38	10	5
	61000-M12X1,25	38	10	5
	61000-M12X1,5	38	10	4
	61000-M14X1	38	10	5
	61000-M14X1,5	38	10	5
	61000-M16X1	45	14	5
	61000-M16X1,5	45	14	5
	61000-M18X1	45	14	5
	61000-M18X1,5	45	14	5
	61000-M20X1	45	14	6
	61000-M20X1,5	45	14	6
	61000-M22X1,5	55	16	5
	61000-M24X1,5	55	16	6
	61000-M30X1,5	65	18	6

C4

WALTER
SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Dies

mm

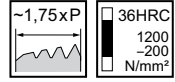
Protocut®



- For long- and short-chipping materials

UNC
ASME B1.1

2A



uncoated	P	M	K	N	S	H	O
	●●			●●			

Tool	Designation - D _N uncoated	D mm	l ₁ mm	N
	62000-UNC2	16	5	4
	62000-UNC4	16	5	4
	62000-UNC6	20	7	4
	62000-UNC8	20	7	4
	62000-UNC1/4	20	7	4
	62000-UNC5/16	25	9	4
	62000-UNC3/8	30	11	4
	62000-UNC7/16	30	11	4
	62000-UNC1/2	38	14	4
	62000-UNC5/8	45	18	4
	62000-UNC3/4	45	18	5
	62000-UNC1X8	55	22	5

C4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

Dies

mm

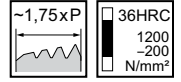
Protocut®



- For long- and short-chipping materials

UNF
ASME B1.1

2A



uncoated	P	M	K	N	S	H	O
	●●			●●			

Tool	Designation - D _N uncoated	D mm	l ₁ mm	N
	63000-UNF10	20	7	4
	63000-UNF1/4	20	7	4
	63000-UNF5/16	25	9	4
	63000-UNF3/8	30	11	4
	63000-UNF7/16	30	11	5
	63000-UNF1/2	38	10	5
	63000-UNF9/16	38	10	5
	63000-UNF5/8	45	14	5
	63000-UNF3/4	45	14	6
	63000-UNF7/8	55	16	5

C4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

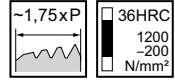
Dies

mm

Protocut®

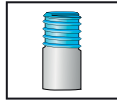


- For long- and short-chipping materials



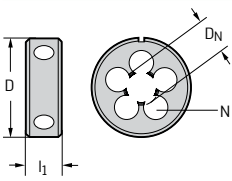
G (BSP)
DIN EN ISO 228

Class A



	P	M	K	N	S	H	O
uncoated	●●			●●			

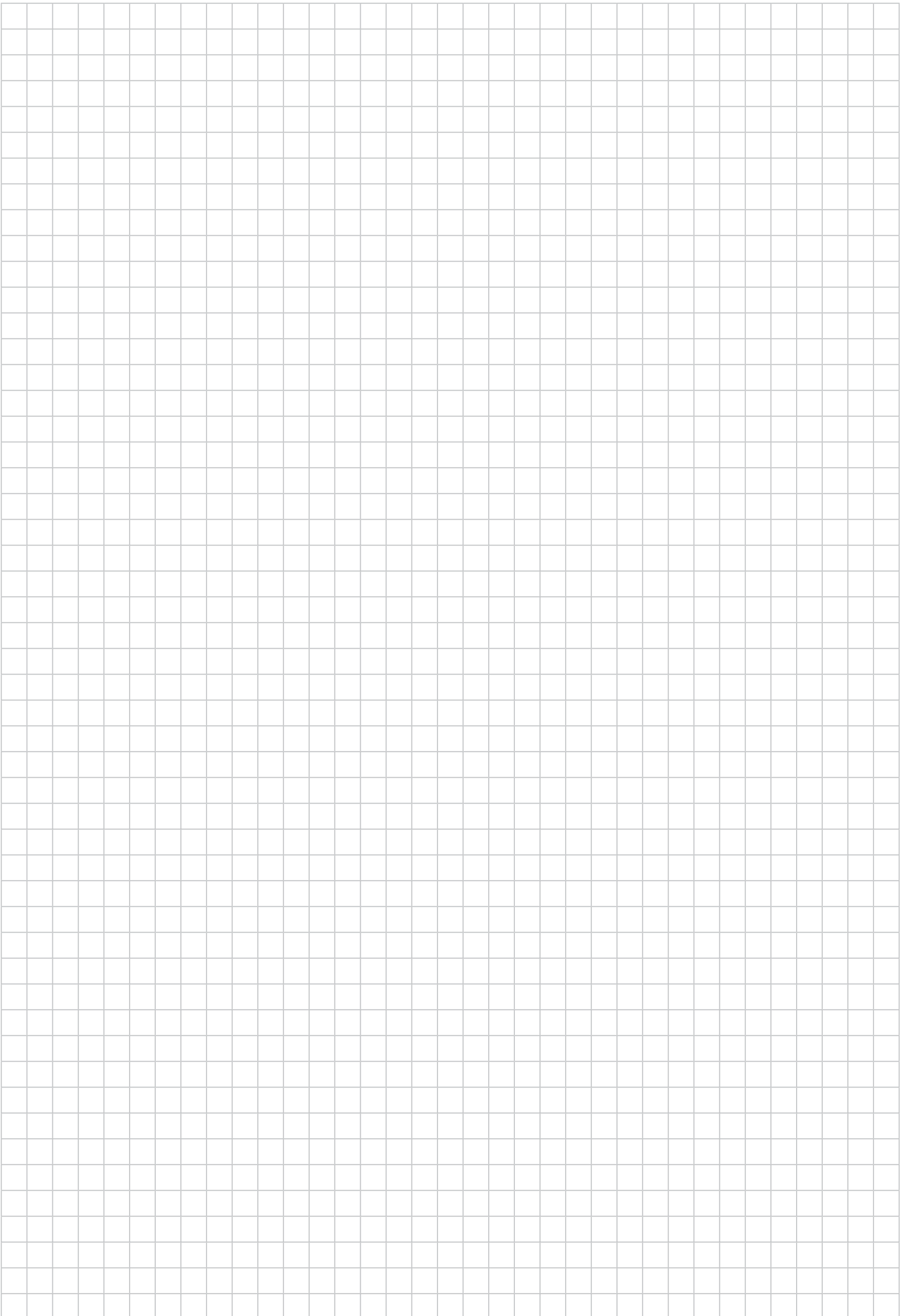
Tool



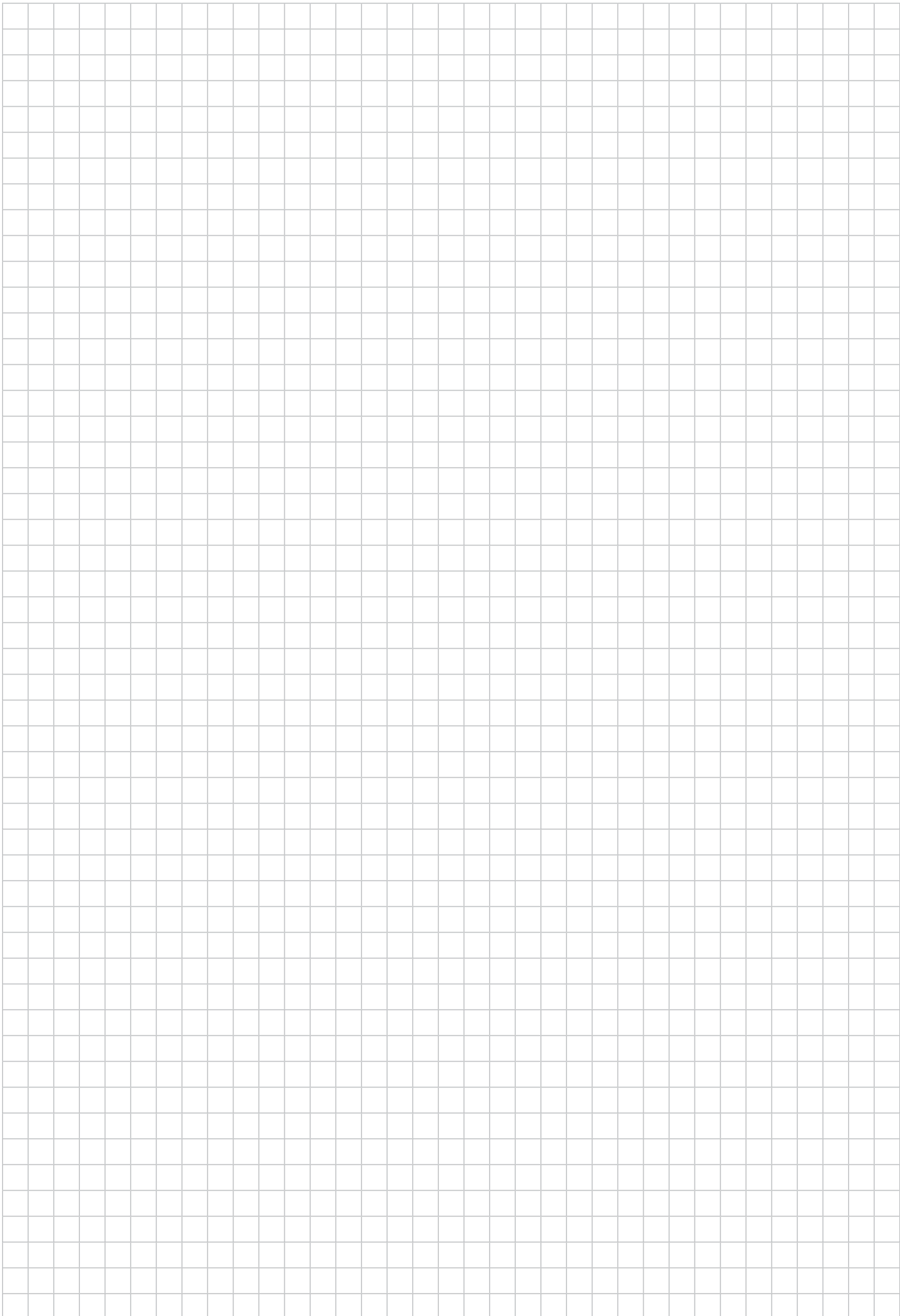
Designation - D _N uncoated	D mm	l ₁ mm	N
64000-G1/8	30	11	5
64000-G1/4	38	10	5
64000-G1/2	45	14	6
64000-G3/8	45	14	5
64000-G3/4	55	16	6
64000-G1	65	18	7

C4

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions



C4



C4

NAFTA Threading

Highlights

Page

Product features	4
Tap/thread former overview	20

Tapping

Page

HSS-E (-PM) taps

Product range overview	
HSS-E (-PM) taps	22
Order pages	
M – Metric thread	26
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STI-UNC/STI-UNF	81
NPT/NPTF	92

Thread forming

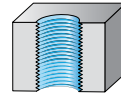
Page

HSS-E (-PM) thread formers

Product range overview	
HSS-E (-PM) thread formers	98
Order pages	
M – Metric thread	99
UNC	100
UNF	102

HSS-E (-PM) taps

Machining



Thread depth

2 x D_N

3 x D_N

3 x D_N

3.5 x D_N

3.5 x D_N



Designation

Prototex® TiNi

Prototex® Synchrospeed

TC217 Advance

Prototex® Eco Plus

TC216 Perform

Thread type

M



MF

UNC / UNF / UN-8



G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI-UNC / STI-UNF



Tolerance

3B / 6HX

2B

2B/3B / 3B / 6HX / H11 / H7

2B

2B

Coolant supply

External

External

External

External

External

Chamfer form

B

B

B

B

B

Coating / grade

TiCN / uncoated

TiN

WY80FC / WY80RG

THL

WY80AA

Cutting tool material

HSS-E-PM

HSS-E

HSS-E

HSS-E-PM

HSS-E

P Steel



M Stainless steel



K Cast iron



N NF metals



S Materials with difficult cutting properties



H Hard materials

O Other



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35, 60

QR code



www.walter-tools.com/woc/

prototex-tini

prototex-synchrospeed

TC217

prototex-eco-plus

TC216

C4

HSS-E (-PM) taps

Machining				
Thread depth	3 x D _N			1.5 x D _N

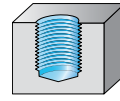


Designation	Paradur® X-pert K	Paradur Inox®	Paradur® H	Paradur® Ni	Paradur® Ni
Thread type					
M					
MF					
UNC / UNF / UN-8	✓				✓
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF		✓	✓	✓	
Pg / BSW / Tr					
STI-UNC / STI-UNF					✓
Tolerance	2B	NORMAL	NORMAL	NORMAL	3B
Coolant supply	External	External	External	External	External
Chamfer form	C	C	C	C	C / E
Coating / grade	TAFT	VAP	uncoated	VAP	TICN / VAP
Cutting tool material	HSS-E-PM	HSS-E	HSS-E	HSS-E	HSS-E-PM / HSS-E
P Steel		••		••	••
M Stainless steel		••			
K Cast iron	••	•	•	••	••
N NF metals	•		••	••	•
S Materials with difficult cutting properties					••
H Hard materials					
O Other			•		
Page in catalog	47	94, 97	95, 98	96, 99	51, 73, 87, 93
QR code					
www.walter-tools.com/woc/	paradur-xpert-k	paradur-inox	paradur-h	paradur-ni	paradur-ni

C4

HSS-E (-PM) taps

Machining



Thread depth

1.5 x D_N

2 x D_N

2.5 x D_N

3 x D_N

3 x D_N



Designation

Paradur® Ni 10

Paradur® Ti

Paradur® Synchronspeed

Paradur® Eco CI

Paradur® Eco Plus

Thread type

M

✓

MF

UNC / UNF / UN-8

✓

✓

✓

✓

✓

G / Rc / Rp

MJ / UNJC / UNJF

NPT / NPTF

Pg / BSW / Tr

STI-UNC / STI-UNF

✓

Tolerance

3B

3B / 6HX

2B

2B

2B

Coolant supply

External

External

External

axial

External / axial

Chamfer form

C

C / E

C

C

C

Coating / grade

TICN

TICN / VAP

TIN/VAP

TICN

THL

Cutting tool material

HSS-E-PM

HSS-E-PM

HSS-E

HSS-E-PM / HSS

HSS-E-PM

P Steel

••

••

••

••

••

M Stainless steel

••

••

••

••

••

K Cast iron

••

••

••

••

••

N NF metals

•

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••

S Materials with difficult cutting properties

••

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•

••

••

H Hard materials

O Other

•

••

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www.walter-tools.com/woc/

paradur-ni-10

paradur-ti

paradur-synchronspeed

paradur-eco-ci

paradur-eco-plus

C4

HSS-E (-PM) taps

Machining					
-----------	--	--	--	--	--

Thread depth	3 x D _N	3 x D _N	3 x D _N	3 x D _N	3.5 x D _N
--------------	--------------------	--------------------	--------------------	--------------------	----------------------



Designation	Paradrur® X-pert N	TC115 Perform	TC117 Advance	TC142 Supreme	Paradrur® Short Chip HT
Thread type					
M	✓		✓		
MF					
UNC / UNF / UN-8	✓	✓	✓	✓	✓
G / Rc / Rp					
MJ / UNJC / UNJF					
NPT / NPTF					
Pg / BSW / Tr					
STI-UNC / STI-UNF	✓		✓		
Tolerance	2B / 3B / 6H	2B	2B/3B / 3B / 6HX / H11 / H7	2BX	2BX
Coolant supply	External	External	External	External	axial
Chamfer form	C	C	C / E	C	C
Coating / grade	uncoated	WY80AA	WY80FC / WY80RG	WW60RB / WY80FC	uncoated
Cutting tool material	HSS-E	HSS-E	HSS-E	HSS-E-PM / HSS-E	HSS-E
P Steel		••	••	•	••
M Stainless steel		••	••	••	
K Cast iron		••	••		•
N NF metals	••	•	••		•
S Materials with difficult cutting properties	•				
H Hard materials					
O Other	•				
Page in catalog	31, 48, 85, 91	42, 67	30, 40, 56, 65, 78, 84, 90	45, 69	44
QR code					
www.walter-tools.com/woc/	paradrur-xpert-n	TC115	TC117	TC142	paradrur-short-chip-ht

C4

HSS-E machine taps

TC217 Advance inch shank



- Universal cut tap
- WY80FC: best chip control

$\leq 3 \times D_N$

$B=3.5-5$

370HB
100HB

M
DIN 13

6HX

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN/ANSI	Designation	D_N	P mm	l_1 h9 in	L_c in	l_3 in	d_1 in	\square in	l_g in	N	WY80FC
	TC217.M3-C0-	M 3	0.5	2.205	0.354	0.709	0.141	0.110	0.190	2	☼
	TC217.M4-C0-	M 4	0.7	2.480	0.472	0.827	0.168	0.131	0.250	3	☼
	TC217.M5-C0-	M 5	0.8	2.756	0.512	0.984	0.194	0.152	0.250	3	☼
	TC217.M6-C0-	M 6	1.0	3.150	0.591	1.181	0.255	0.191	0.313	3	☼
	TC217.M8-C0-	M 8	1.25	3.543	0.709	1.378	0.318	0.238	0.380	3	☼
	TC217.M10-C0-	M 10	1.5	3.937	0.787	1.535	0.381	0.286	0.437	3	☼

Order example for grade WY80FC: TC217.M3-C0-WY80FC

DIN/ANSI	Designation	D_N	P mm	l_1 h9 in	L_c in	l_3 in	d_1 in	\square in	l_g in	N	WY80FC
	TC217.M12-L0-	M 12	1.75	4.331	0.906	3.224	0.367	0.275	0.437	3	☼
	TC217.M16-L0-	M 16	2.0	4.331	0.984	2.587	0.480	0.360	0.563	4	☼
	TC217.M20-L0-	M 16	2.5	5.512	1.181	3.642	0.652	0.489	0.689	4	☼

Order example for grade WY80FC: TC217.M12-L0-WY80FC

C4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = ☺ → Average = ☹ → Poor = ☼ machining conditions

Tapping

HSS-E machine taps

TD217 Advance inch

Thread-tec™ Omni



– Universal taps

DIN
ANSI

M
DIN 13

6HX

≤
3×DN

B=3,5-5

38HRC
1250
-350
N/mm²

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN-ANSI											WY80FC
Designation	D _N	P mm	l ₁ inch	L _c inch	l ₃ inch	d ₁ h9 inch	 inch	l _g inch	N		
TD217.M3-C0-	M 3	0.5	2.205	0.354	0.638	0.141	0.110	0.190	2	☒	
TD217.M4-C0-	M 4	0.7	2.480	0.472	0.756	0.168	0.131	0.250	3	☒	
TD217.M5-C0-	M 5	0.8	2.756	0.512	0.890	0.194	0.152	0.250	3	☒	
TD217.M6-C0-	M 6	1.0	3.150	0.591	1.063	0.255	0.191	0.313	3	☒	
TD217.M8-C0-	M 8	1.25	3.543	0.709	1.299	0.318	0.238	0.380	3	☒	
TD217.M10-C0-	M 10	1.5	3.937	0.787	1.457	0.381	0.286	0.437	3	☒	

Ordering example for the grade WY80FC: TD217.M10-C0-WY80FC

DIN-ANSI											WY80FC
Designation	D _N	P mm	l ₁ inch	L _c inch	l ₃ inch	d ₁ h9 inch	 inch	l _g inch	N		
TD217.M12-L0-	M 12	1.75	4.331	0.906	1.535	0.367	0.275	0.437	3	☒	
TD217.M16-L0-	M 16	2	4.331	0.984	1.890	0.480	0.360	0.563	4	☒	
TD217.M20-L0-	M 20	2	5.512	1.181	2.362	0.652	0.489	0.690	4	☒	

Ordering example for the grade WY80FC: TD217.M12-L0-WY80FC

WALTER
SELECT

●● Primary application
● Other application

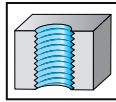
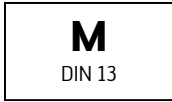
Best tool for → Good = → Average = → Poor = machining conditions

HSS-E-PM machine taps

Prototex® TiNi inch shank



- Recommended with oil
- For long-chipping materials



$\leq 2 \times D_N$

$B=3,5-5$

44HRC
1400
-700
N/mm²

	P	M	K	N	S	H	O
uncoated	●	●	●	●	●	●	●

ANSI B94.9		Designation uncoated	D_N	P mm	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
	A2021760-M3	M3	0.5	1.937	0.433	0.433	0.141	0.110	0.190	2	
	A2021760-M4	M4	0.7	2.126	0.591	0.591	0.168	0.131	0.250	3	
	A2021760-M6	M6	1.0	2.500	0.630	0.906	0.255	0.191	0.313	3	
	A2021760-M10	M10	1.5	2.937	0.748	1.299	0.381	0.286	0.437	3	

ANSI B94.9		Designation uncoated	D_N	P mm	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
	A2026760-M12	M12	1.75	3.378	0.945	2.272	0.367	0.275	0.437	4	
	A2026760-M16	M16	2.0	3.811	1.102	2.067	0.480	0.360	0.563	4	
	A2026760-M20	M20	2.5	4.469	1.181	2.598	0.652	0.489	0.689	4	

HSS-E machine taps

TC117 Advance inch shank



- Universal cut tap
- WY80FC: best chip control
- WY80RG: good chip control and good wear resistance

$\leq 2.5 \times D_N$

$C=2-3$

40°

370HB
150HB

M
DIN 13

6HX

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI		Designation	D_N-P	P mm	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80FC	WY80RG
		TC117.M3-C0-	M 3	0.5	2.205	0.236	0.709	0.141	0.110	0.190	3		
		TC117.M4-C0-	M 4	0.7	2.480	0.276	0.827	0.168	0.131	0.250	3		
		TC117.M5-C0-	M 5	0.8	2.756	0.315	0.984	0.194	0.152	0.250	3		
		TC117.M6-C0-	M 6	1.0	3.150	0.394	1.181	0.255	0.191	0.313	3		
		TC117.M8-C0-	M 8	1.25	3.543	0.472	1.378	0.318	0.238	0.380	3		
		TC117.M10-C0-	M 10	1.5	3.937	0.591	1.535	0.381	0.286	0.437	3		

Order example for grade WY80RG: TC117.M3-C0-WY80RG

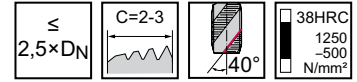
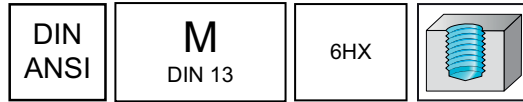
DIN/ANSI		Designation	D_N-P	P mm	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80FC	WY80RG
		TC117.M12-L0-	M 12	1.75	4.331	0.630	3.224	0.367	0.275	0.437	4		
		TC117.M16-L0-	M 16	2.0	4.331	0.787	2.587	0.480	0.360	0.563	4		
		TC117.M20-L0-	M 20	2.5	5.512	0.984	3.642	0.652	0.489	0.689	4		

Order example for grade WY80RG: TC117.M12-L0-WY80RG

HSS-E machine taps
TD117 Advance inch
Thread-tec™ Omni



– Universal taps



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (THL)	●	●●	●	●●			

DIN-ANSI		Designation	D_N	P mm	l_1 inch	L_c inch	l_3 inch	d_1 h9 inch	inch	N	WY80FC	WY80RG
	TD117.M3-C0-	M 3	0.5	2.205	0.236	0.630	0.141	0.110	3	●●	●●	
	TD117.M4-C0-	M 4	0.7	2.480	0.276	0.709	0.168	0.131	3	●●	●●	
	TD117.M5-C0-	M 5	0.8	2.756	0.315	0.866	0.194	0.152	3	●●	●●	
	TD117.M6-C0-	M 6	1.0	3.150	0.394	1.024	0.255	0.191	3	●●	●●	
	TD117.M8-C0-	M 8	1.25	3.543	0.472	1.181	0.318	0.238	3	●●	●●	
	TD117.M10-C0-	M 10	1.5	3.937	0.591	1.339	0.381	0.286	3	●●	●●	

Ordering example for the grade WY80FC: TD117.M10-C0-WY80FC

DIN-ANSI		Designation	D_N	P mm	l_1 inch	L_c inch	l_3 inch	d_1 h9 inch	inch	N	WY80FC	WY80RG
	TD117.M12-L0-	M 12	1.75	4.331	0.630	1.457	0.367	0.275	4	●●	●●	
	TD117.M16-L0-	M 16	2	4.331	0.787	1.890	0.480	0.360	4	●●	●●	
	TD117.M20-L0-	M 20	2.5	5.512	0.984	2.402	0.652	0.489	4	●●	●●	

Ordering example for the grade WY80FC: TD117.M12-L0-WY80FC

C4

WALTER SELECT

●● Primary application ● Other application

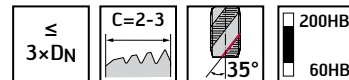
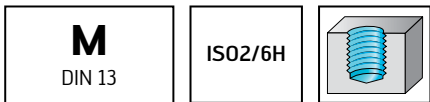
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® X-pert N inch shank

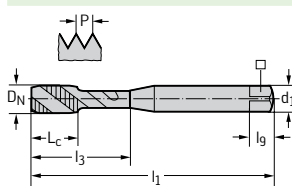


- For long-chipping aluminum alloys (Si content < 7 %>



	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN/ANSI



Designation uncoated	D _N -P	P mm	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N
AN20516-M2	M 2	0.4	1.772	0.157	0.354	0.141	0.110	0.190	2
AN20516-M2.5	M 2.5	0.45	1.969	0.157	0.492	0.141	0.110	0.190	2
AN20516-M3	M 3	0.5	2.205	0.236	0.709	0.141	0.110	0.190	2
AN20516-M4	M 4	0.7	2.480	0.276	0.827	0.168	0.131	0.250	2
AN20516-M5	M 5	0.8	2.756	0.315	0.984	0.194	0.152	0.250	2
AN20516-M6	M 6	1.0	3.150	0.394	1.181	0.255	0.191	0.313	2

C4

**WALTER
SELECT**

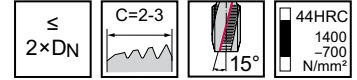
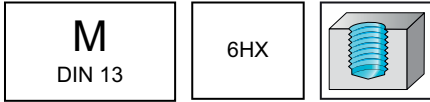
●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E Machine taps

Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9		Designation VAP	D _N	P mm	l ₁ inch	L _c inch	l ₃ inch	d ₁ h9 inch	□	l _g inch	N
		A20416S-M8	M 8	1.25	2.717	0.748	1.299	0.318	0.238	0.380	3

C4

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® Eco Plus inch shank



- Universal high-performance cut tap
- THL: good chip control and good wear resistance

$\leq 3.5 \times D_N$

$B=3.5-5$

400HB	150HB
-------	-------

UNC
ASME B1.1

2B

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2221002-UNC4	UNC 4-40	0.112	2.205	0.354	0.709	0.141	0.110	0.187	3
	AEP2221002-UNC5	UNC 5-40	0.125	2.205	0.394	0.709	0.141	0.110	0.190	3
	AEP2221002-UNC6	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.187	3
	AEP2221002-UNC8	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3
	AEP2221002-UNC10	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3
	AEP2221002-UNC12	UNC 12-24	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3
	AEP2221002-UNC1/4	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3
	AEP2221002-UNC5/16	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3
	AEP2221002-UNC3/8	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2226002-UNC7/16	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3
	AEP2226002-UNC1/2	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	4
	AEP2226002-UNC9/16	UNC 9/16-12	0.563	4.331	0.984	3.161	0.429	0.322	0.500	4
	AEP2226002-UNC5/8	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4
	AEP2226002-UNC3/4	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C4

HSS-E machine taps

TC217 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance

\leq
 $3 \times D_N$

$B=3.5-5$

370HB	100HB
-------	-------

UNC
ASME B1.1

2B / 3B

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (TiAIN)	●●	●●	●●	●●			

DIN/ANSI		Designation	D_N -P	D_N in	l_1 h9 in	L_c in	l_3 in	d_1 in	\square in	l_g in	N	WY80FC	WY80RG
		TC217.UNC1-G0-	UNC 1-64	0.073	1.772	0.236	0.354	0.141	0.110	0.190	2		
		TC217.UNC2-G0-	UNC 2-56	0.086	1.772	0.276	0.472	0.141	0.110	0.190	2		
		TC217.UNC3-G0-	UNC 3-48	0.099	1.969	0.315	0.492	0.141	0.110	0.190	2		
		TC217.UNC4-G0-	UNC 4-40	0.112	2.205	0.354	0.709	0.141	0.110	0.190	2		
		TC217.UNC5-G0-	UNC 5-40	0.125	2.205	0.394	0.709	0.141	0.110	0.190	2		
		TC217.UNC6-G0-	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2		
		TC217.UNC8-G0-	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3		
		TC217.UNC10-G0-	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3		
		TC217.UNC12-G0-	UNC 12-24	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3		
		TC217.UNC1/4-G0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3		
		TC217.UNC5/16-G0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3		
		TC217.UNC3/8-G0-	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3		

Order example for grade WY80RG: TC217.UNC1-G0-WY80RG

DIN/ANSI		Designation	D_N -P	D_N in	l_1 h9 in	L_c in	l_3 in	d_1 in	\square in	l_g in	N	WY80FC	WY80RG
		TC217.UNC7/16-R0-	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3		
		TC217.UNC1/2-R0-	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	3		
		TC217.UNC9/16-R0-	UNC 9/16-12	0.563	4.331	0.984	3.161	0.429	0.322	0.500	4		
		TC217.UNC5/8-R0-	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4		
		TC217.UNC3/4-R0-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4		
		TC217.UNC7/8-R0-	UNC 7/8-9	0.875	5.512	1.181	3.583	0.697	0.523	0.750	4		
		TC217.UNC1.0-R0-	UNC 1"-8	1.000	6.299	1.417	3.756	0.800	0.600	0.811	4		

Order example for grade WY80RG: TC217.UNC7/16-R0-WY80RG

C4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC216 Perform inch shank



– Universal cut tap

$\leq 3 \times D_N$

$B=3.5-5$

300HB
100HB

UNC
ASME B1.1

2B

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			

DIN/ANSI		Designation	D_N -P	D_N in	l_1 h9 in	L_c in	l_3 in	d_1 in	\square in	l_g in	N	WY80AA
		TC216.UNC6-C0-	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.188	3	
		TC216.UNC8-C0-	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	
		TC216.UNC10-C0-	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	
		TC216.UNC1/4-C0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	
		TC216.UNC5/16-C0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.375	3	
		TC216.UNC3/8-C0-	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.438	3	

Order example for grade WY80AA: TC216.UNC6-C0-WY80AA

DIN/ANSI		Designation	D_N -P	D_N in	l_1 h9 in	L_c in	l_3 in	d_1 in	\square in	l_g in	N	WY80AA
		TC216.UNC1/2-L0-	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.438	4	
		TC216.UNC5/8-L0-	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4	
		TC216.UNC3/4-L0-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.688	4	

Order example for grade WY80AA: TC216.UNC1/2-L0-WY80AA

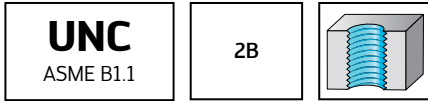
HSS-E machine taps

Prototex® Synchronspeed

inch shank



- For long-chipping materials



	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●		●●

DIN/ANSI	Designation TIN	D _N -P	D _N in	l ₁ h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l ₉ in	N
	AS2221005-UNC1/4	UNC 1/4-20	0.250	3.150	0.500	1.181	0.255	0.191	0.313	3
	AS2221005-UNC3/8	UNC 3/8-16	0.375	3.937	0.626	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation TIN	D _N -P	D _N in	l ₁ h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l ₉ in	N
	AS2226005-UNC1/2	UNC 1/2-13	0.500	4.331	0.768	3.224	0.367	0.275	0.437	3
	AS2226005-UNC5/8	UNC 5/8-11	0.625	4.331	0.909	2.587	0.480	0.360	0.563	4
	AS2226005-UNC3/4	UNC 3/4-10	0.750	4.921	1.000	3.051	0.590	0.442	0.689	4

C4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Prototex® TiNi inch shank



- Recommended with oil
- For long-chipping materials

$\leq 2 \times D_N$

$B=3.5-5$

410HB
200HB

UNC
ASME B1.1

3B

	P	M	K	N	S	H	O
TICN	●●	●●	●●	●●	●●	●●	●●
uncoated	●●	●●	●●	●●	●●	●●	●●

	Designation TICN	Designation uncoated	D_N -P	D_N	l_1	L_c	l_3	d_1	\square	l_g	N
				in	in	in	in	in	in	in	
Cylindrical shank 	A2220766-UNC2	A2220760-UNC2	UNC 2-56	0.086	1.752	0.315	0.315	0.141	0.110	0.190	2
	A2220766-UNC4	A2220760-UNC4	UNC 4-40	0.112	1.878	0.394	0.394	0.141	0.110	0.190	2
	A2220766-UNC5		UNC 5-40	0.125	1.937	0.433	0.433	0.141	0.110	0.190	2
	A2220766-UNC6	A2220760-UNC6	UNC 6-32	0.138	2.000	0.512	0.512	0.141	0.110	0.190	3
	A2220766-UNC8	A2220760-UNC8	UNC 8-32	0.164	2.126	0.591	0.591	0.168	0.131	0.250	3
	A2220766-UNC10	A2220760-UNC10	UNC 10-24	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
	A2220766-UNC1/4	A2220760-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
	A2220766-UNC5/16	A2220760-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
	A2220766-UNC3/8	A2220760-UNC3/8	UNC 3/8-16	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

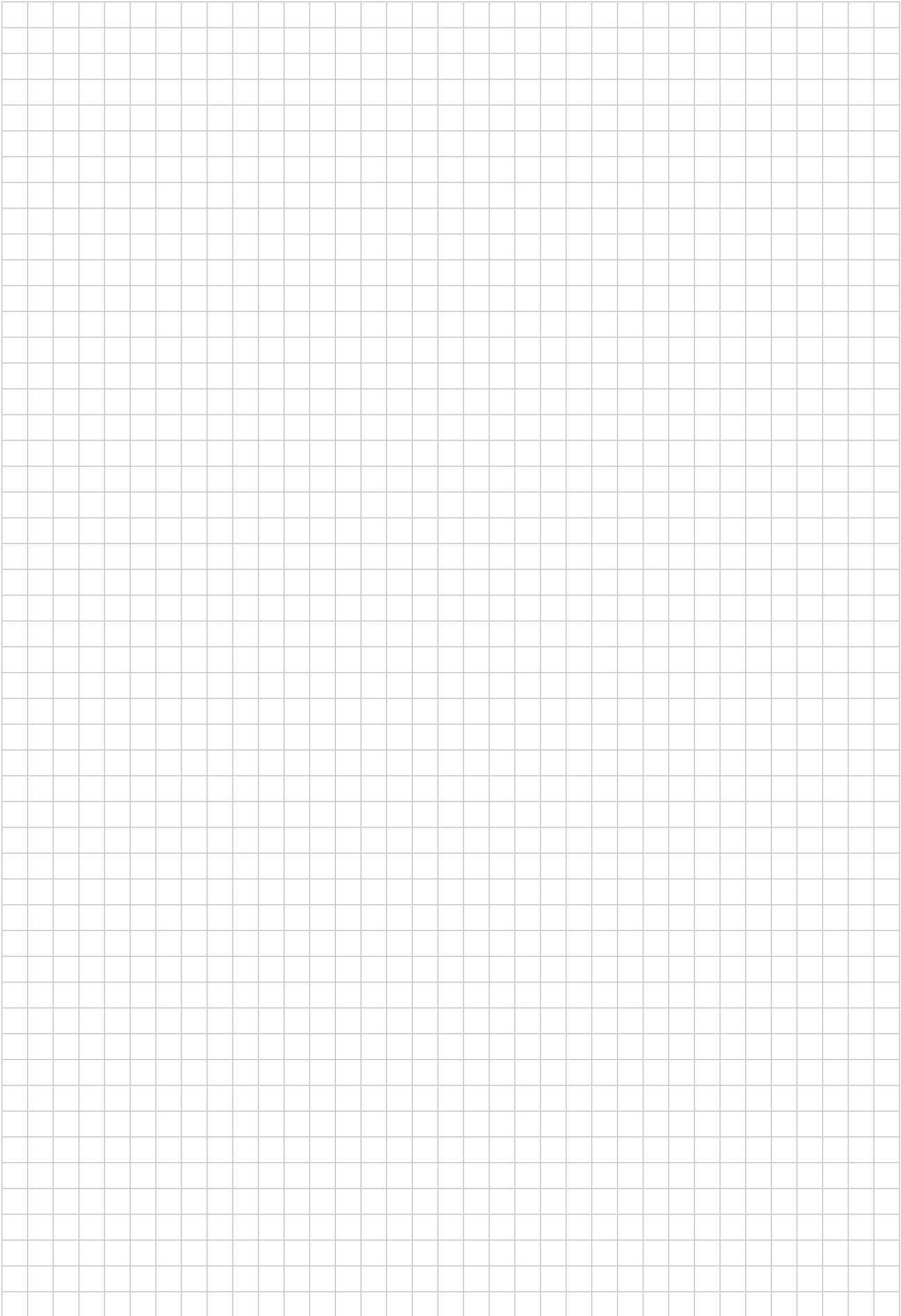
	Designation TICN	Designation uncoated	D_N -P	D_N	l_1	L_c	l_3	d_1	\square	l_g	N
				in	in	in	in	in	in	in	
Cylindrical shank 	A2225766-UNC7/16		UNC 7/16-14	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
	A2225766-UNC1/2	A2225760-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
	A2225766-UNC9/16		UNC 9/16-12	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
	A2225766-UNC5/8		UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
	A2225766-UNC7/8		UNC 7/8-9	0.875	4.685	1.260	2.756	0.697	0.523	0.750	4
	A2225766-UNC1		UNC 1"-8	1.000	5.126	1.457	2.583	0.800	0.600	0.811	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C4



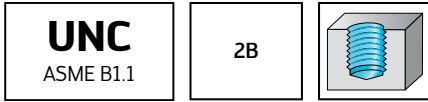
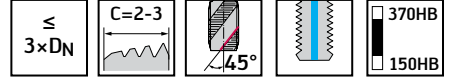
C4

HSS-E PM machine taps

Paradur® Eco Plus inch shank

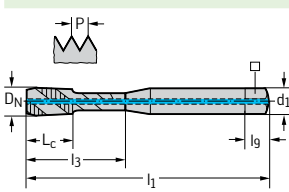


- Universal high-performance cut tap
- THL: good chip control and good wear resistance



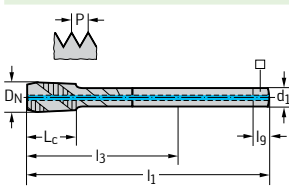
	P	M	K	N	S	H	O
THL	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI



Designation THL	D_N -P	D_N in	l_1 in	l_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
AEP2251312-UNC1/4	UNC 1/4-20	0.250	3.150	0.394	1.075	0.255	0.191	0.313	3
AEP2251312-UNC5/16	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3
AEP2251312-UNC3/8	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3

DIN/ANSI



Designation THL	D_N -P	D_N in	l_1 in	l_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
AEP2256312-UNC1/2	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4
AEP2256312-UNC5/8	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4
AEP2256312-UNC3/4	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4

C4

WALTER SELECT

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

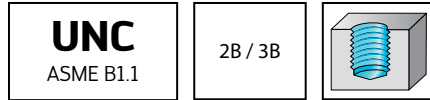
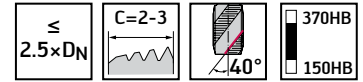
●● Primary application ● Other application

HSS-E machine taps

TC117 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.UNC1-G0-	UNC 1-64	0.073	1.772	0.157	0.354	0.141	0.110	0.190	3		☹
	TC117.UNC2-G0-	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3	☹	☹
	TC117.UNC3-G0-	UNC 3-48	0.099	1.969	0.157	0.492	0.141	0.110	0.190	3		☹
	TC117.UNC4-G0-	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3	☹	☹
	TC117.UNC5-G0-	UNC 5-40	0.125	2.205	0.236	0.709	0.141	0.110	0.190	3	☹	☹
	TC117.UNC6-G0-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3	☹	☹
	TC117.UNC8-G0-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	☹	☹
	TC117.UNC10-G0-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	☹	☹
	TC117.UNC12-G0-	UNC 12-24	0.216	3.150	0.394	1.181	0.220	0.165	0.281	3		☹
	TC117.UNC1/4-G0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	☹	☹
	TC117.UNC5/16-G0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	☹	☹
	TC117.UNC3/8-G0-	UNC 3/8-16	0.375	3.937	0.591	1.614	0.381	0.286	0.437	3	☹	☹

Order example for grade WY80RG: TC117.UNC1-G0-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
	TC117.UNC7/16-R0-	UNC 7/16-14	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	☹	☹
	TC117.UNC1/2-R0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4	☹	☹
	TC117.UNC9/16-R0-	UNC 9/16-12	0.563	4.331	0.787	3.161	0.429	0.322	0.500	4		☹
	TC117.UNC5/8-R0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	☹	☹
	TC117.UNC3/4-R0-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4	☹	☹
	TC117.UNC7/8-R0-	UNC 7/8-9	0.875	5.512	0.984	3.583	0.697	0.523	0.750	4	☹	☹
	TC117.UNC1.0-R0-	UNC 1"-8	1.000	6.299	1.181	3.756	0.800	0.600	0.811	4	☹	☹
	TC117.UNC1.1/8-R0-	UNC 1.1/8-7	1.125	7.087	1.378	4.472	0.896	0.672	0.880	5		☹
	TC117.UNC1.1/4-R0-	UNC 1.1/4-7	1.250	7.087	1.378	4.354	1.021	0.766	1.000	5		☹
	TC117.UNC1.1/2-R0-	UNC 1.1/2-6	1.500	7.874	1.575	3.953	1.233	0.925	1.126	5		☹

Order example for grade WY80RG: TC117.UNC7/16-R0-WY80RG

C4

WALTER SELECT

●● Primary application ● Other application

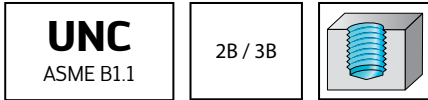
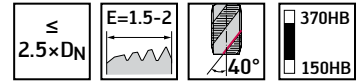
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine taps

TC117 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI		Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
		TC117.UNC2-GE-	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3	●●	
		TC117.UNC4-GE-	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3	●●	
		TC117.UNC6-GE-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3	●●	●●
		TC117.UNC8-GE-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	●●	●●
		TC117.UNC10-GE-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●	●●
		TC117.UNC1/4-GE-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●	●●
		TC117.UNC5/16-GE-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●	●●
		TC117.UNC3/8-GE-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3	●●	●●

Order example for grade WY80RG: TC117.UNC6-GE-WY80RG

DIN/ANSI		Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
		TC117.UNC7/16-RE-	UNC 7/16-14	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	●●	
		TC117.UNC1/2-RE-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4	●●	●●
		TC117.UNC9/16-RE-	UNC 9/16-12	0.563	4.331	0.787	3.161	0.429	0.322	0.500	4	●●	●●
		TC117.UNC5/8-RE-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	●●	●●
		TC117.UNC3/4-RE-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4	●●	●●
		TC117.UNC7/8-RE-	UNC 7/8-9	0.875	5.512	0.984	3.583	0.697	0.523	0.750	4	●●	
		TC117.UNC1.0-RE-	UNC 1"-8	1.000	6.299	1.181	3.756	0.800	0.600	0.811	4	●●	

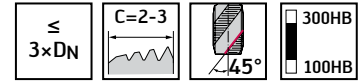
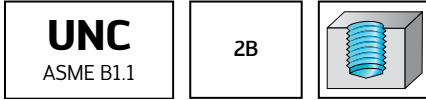
Order example for grade WY80RG: TC117.UNC1/2-RE-WY80RG

HSS-E machine taps

TC115 Perform inch shank



– Universal cut tap



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N	WY80AA
	TC115.UNC6-C0-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.188	3	☹
	TC115.UNC8-C0-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	☹
	TC115.UNC10-C0-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	☹
	TC115.UNC1/4-C0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	☹
	TC115.UNC5/16-C0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.375	3	☹
	TC115.UNC3/8-C0-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.438	3	☹

Order example for grade WY80AA: TC115.UNC6-C0-WY80AA

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N	WY80AA
	TC115.UNC1/2-L0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.438	3	☹
	TC115.UNC5/8-L0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	3	☹
	TC115.UNC3/4-L0-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.688	4	☹

Order example for grade WY80AA: TC115.UNC1/2-L0-WY80AA

C4

WALTER SELECT

●● Primary application ● Other application

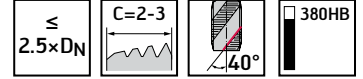
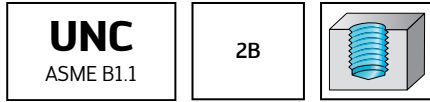
Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine taps

Paradur® Synchronspeed inch shank



– For long-chipping materials



	P	M	K	N	S	H	O
TIN/VAP	●●	●●	●●	●	●		●

DIN/ANSI	Designation TIN/VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AS2251005-UNC4	UNC 4-40	0.112	2.205	0.256	0.709	0.141	0.110	0.187	3
	AS2251005-UNC6	UNC 6-32	0.138	2.205	0.315	0.787	0.141	0.110	0.187	3
	AS2251005-UNC8	UNC 8-32	0.164	2.480	0.315	0.827	0.168	0.131	0.250	3
	AS2251005-UNC10	UNC 10-24	0.190	2.756	0.433	0.984	0.194	0.152	0.250	3
	AS2251005-UNC1/4	UNC 1/4-20	0.250	3.150	0.531	1.181	0.255	0.191	0.313	3
	AS2251005-UNC5/16	UNC 5/16-18	0.313	3.543	0.591	1.378	0.318	0.238	0.380	3
	AS2251005-UNC3/8	UNC 3/8-16	0.375	3.937	0.669	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation TIN/VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AS2256005-UNC1/2	UNC 1/2-13	0.500	4.331	0.807	3.224	0.367	0.275	0.437	4
	AS2256005-UNC5/8	UNC 5/8-11	0.625	4.331	0.965	2.587	0.480	0.360	0.563	4
	AS2256005-UNC3/4	UNC 3/4-10	0.750	4.921	1.063	3.051	0.590	0.442	0.689	4

C4

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E (-PM) machine taps

TC142 Supreme inch shank



- For stainless steels
- WY80FC: very good chip control
- WW60RB: very good wear resistance

UNC
ASME B1.1

2BX

$\leq 3 \times D_N$

$C=2-3$

50°

350HB
100HB

	P	M	K	N	S	H	O
WW60RB (TiAIN)	●	●●	●	●	●	●	●
WY80FC (VAP)	●	●●	●	●	●	●	●

DIN/ANSI		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WW60RB	WY80FC
		TC142.UNC2-C0-	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3		●
		TC142.UNC4-C0-	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3		●
		TC142.UNC6-C0-	UNC 6-32	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3		●
		TC142.UNC8-C0-	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3	●	●
		TC142.UNC10-C0-	UNC 10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●	●
		TC142.UNC1/4-C0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●	●
		TC142.UNC5/16-C0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●	●
		TC142.UNC3/8-C0-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3	●	●

Order example for grade WY80FC: TC142.UNC2-C0-WY80FC

DIN/ANSI		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WW60RB	WY80FC
		TC142.UNC1/2-L0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	3	●	●
		TC142.UNC5/8-L0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	●	●
		TC142.UNC3/4-L0-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	4		

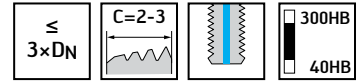
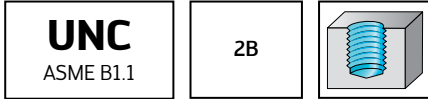
Order example for grade WY80FC: TC142.UNC1/2-L0-WY80FC

HSS-E PM machine taps

Paradur® Eco CI inch shank

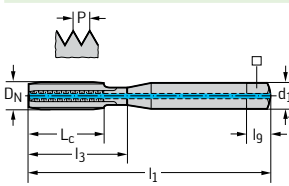


- For short-chipping ISO K materials (GJL / CGI)
- For short-chipping aluminum alloys (Si content > 7%)



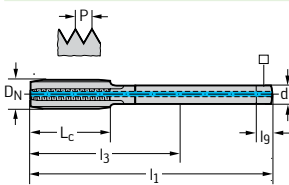
	P	M	K	N	S	H	O
TICN			●●	●●			●●

DIN/ANSI



Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AE2231416-UNC8	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3
AE2231416-UNC10	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	4
AE2231416-UNC1/4	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	4
AE2231416-UNC5/16	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	4
AE2231416-UNC3/8	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	4

DIN/ANSI



Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AE2236416-UNC7/16	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	4
AE2236416-UNC1/2	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	4
AE2236416-UNC9/16	UNC 9/16-12	0.563	4.331	0.984	3.161	0.429	0.322	0.500	4
AE2236416-UNC5/8	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4
AE2236416-UNC3/4	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4
AE2236416-UNC7/8	UNC 7/8-9	0.875	5.512	1.181	3.583	0.697	0.523	0.750	4
AE2236416-UNC1.0	UNC 1"-8	1.000	6.299	1.417	3.756	0.800	0.600	0.811	5

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C4

HSS-E PM machine taps

Paradur® X-pert K inch shank

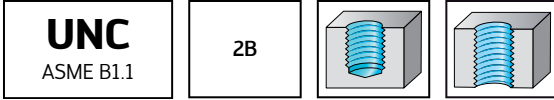


- For short- and long-chipping ISO K materials (GJL / CGI / GJS)
- For short-chipping aluminum alloys (Si content > 7 %)

$\leq 3 \times D_N$

$C=2-3$

300HB
40HB



	P	M	K	N	S	H	O
TAPT			●●	●			

DIN/ANSI	Designation TAPT	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AK2231407-UNC2	UNC 2-56	0.086	1.772	0.276	0.472	0.141	0.110	0.190	3
	AK2231407-UNC4	UNC 4-40	0.112	2.205	0.354	0.709	0.141	0.110	0.190	3
	AK2231407-UNC6	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.190	3
	AK2231407-UNC1/4	UNC 1/4-20	0.250	3.150	0.591	0.984	0.255	0.191	0.313	4
	AK2231407-UNC5/16	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	4
	AK2231407-UNC3/8	UNC 3/8-16	0.375	3.937	0.787	1.535	0.381	0.286	0.437	4

DIN/ANSI	Designation TAPT	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AK2236407-UNC1/2	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	4
	AK2236407-UNC5/8	UNC 5/8-11	0.625	4.331	0.984	2.587	0.480	0.360	0.563	4
	AK2236407-UNC3/4	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4

C4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps

Paradur® X-pert N inch shank



– For long-chipping aluminum alloys (Si content < 7 %>

UNC
ASME B1.1

2B

$\leq 3 \times D_N$

$C=2-3$

200HB
60HB

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN/ANSI	Designation uncoated	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AN22516-UNC2	UNC 2-56	0.086	1.772	0.157	0.472	0.141	0.110	0.190	2
	AN22516-UNC4	UNC 4-40	0.112	2.205	0.236	0.709	0.141	0.110	0.190	2
	AN22516-UNC8	UNC 8-32	0.164	2.480	0.276	0.827	0.168	0.131	0.250	2
	AN22516-UNC1/4	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	2

C4

WALTER
SELECT

●● Primary application ● Other application

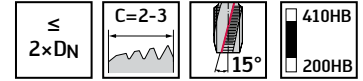
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ti **inch shank**



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
TICN	●●			●	●●		
VAP	●●			●	●●		

ANSI B94.9	Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	A2240606S-UNC2	A22406S-UNC2	UNC 2-56	0.086	1.752	0.315	0.315	0.141	0.110	0.190	2
	A2240606S-UNC4	A22406S-UNC4	UNC 4-40	0.112	1.878	0.394	0.394	0.141	0.110	0.190	2
	A2240606S-UNC5	A22406S-UNC5	UNC 5-40	0.125	1.937	0.433	1.157	0.141	0.110	0.190	3
	A2240606S-UNC6	A22406S-UNC6	UNC 6-32	0.138	2.000	0.512	1.220	0.141	0.110	0.190	3
	A2240606S-UNC8	A22406S-UNC8	UNC 8-32	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3
	A2240606S-UNC10	A22406S-UNC10	UNC 10-24	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
	A2240606S-UNC1/4	A22406S-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
	A2240606S-UNC5/16	A22406S-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
	A2240606S-UNC3/8	A22406S-UNC3/8	UNC 3/8-16	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9	Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	A2245606S-UNC7/16	A22456S-UNC7/16	UNC 7/16-14	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
	A2245606S-UNC1/2	A22456S-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
		A22456S-UNC9/16	UNC 9/16-12	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
	A2245606S-UNC5/8	A22456S-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
	A2245606S-UNC3/4	A22456S-UNC3/4	UNC 3/4-10	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4
		A22456S-UNC1	UNC 1"-8	1.000	5.126	1.457	2.583	0.800	0.600	0.811	4

C4

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials

≤
2×DN

E=1.5-2

15°

410HB
200HB

UNC
ASME B1.1

3B

	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9		Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank		A2240661S-UNC2	UNC 2-56	0.086	1.752	0.315	0.315	0.141	0.110	0.190	2
		A2240661S-UNC4	UNC 4-40	0.112	1.878	0.394	0.394	0.141	0.110	0.190	2
		A2240661S-UNC6	UNC 6-32	0.138	2.000	0.512	0.512	0.141	0.110	0.190	3
		A2240661S-UNC8	UNC 8-32	0.164	2.126	0.591	0.591	0.168	0.131	0.250	3
		A2240661S-UNC10	UNC 10-24	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
		A2240661S-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
		A2240661S-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3

ANSI B94.9		Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank		A2245661S-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
		A2245661S-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
		A2245661S-UNC3/4	UNC 3/4-10	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

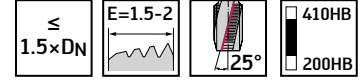
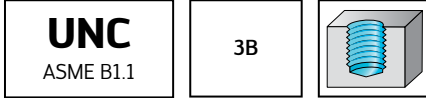
C4

HSS-E PM machine taps

Paradur® Ni inch shank

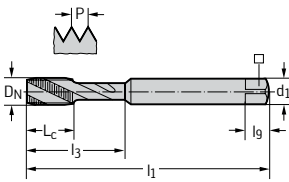


- For long-chipping materials

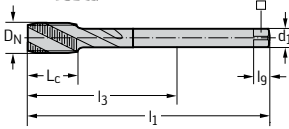


	P	M	K	N	S	H	O
VAP	●				●●		

ANSI B94.9		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
Cylindrical shank		A224003S-UNC6	UNC 6-32	0.138	2.000	0.512	0.512	0.141	0.110	0.190	3
		A224003S-UNC8	UNC 8-32	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3
		A224003S-UNC10	UNC 10-24	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
		A224003S-UNC1/4	UNC 1/4-20	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
		A224003S-UNC5/16	UNC 5/16-18	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
		A224003S-UNC3/8	UNC 3/8-16	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3



ANSI B94.9		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
Cylindrical shank		A224503S-UNC7/16	UNC 7/16-14	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
		A224503S-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
		A224503S-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4



C4

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni 10 inch shank



≤
1.5×DN

C=2-3

10°

470HB
300HB

– For long- and short-chipping materials

UNC
ASME B1.1

3B

	P	M	K	N	S	H	O
TICN	●●			●	●●		

ANSI B94.9		Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
Cylindrical shank 	A2240876-UNC2	UNC 2-56	0.086	1.752	0.315	0.974	0.141	0.110	0.190	3	
	A2240876-UNC4	UNC 4-40	0.112	1.878	0.394	1.100	0.141	0.110	0.190	3	
	A2240876-UNC6	UNC 6-32	0.138	2.000	0.472	1.222	0.141	0.110	0.190	3	
	A2240876-UNC8	UNC 8-32	0.164	2.126	0.512	1.285	0.168	0.131	0.250	3	
	A2240876-UNC10	UNC 10-24	0.190	2.378	0.630	1.537	0.194	0.152	0.250	3	
	A2240876-UNC1/4	UNC 1/4-20	0.250	2.500	0.787	1.596	0.255	0.191	0.313	3	
	A2240876-UNC5/16	UNC 5/16-18	0.313	2.717	0.984	1.746	0.318	0.238	0.380	3	
	A2240876-UNC3/8	UNC 3/8-16	0.375	2.937	1.181	1.831	0.381	0.286	0.437	3	

ANSI B94.9		Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
Cylindrical shank 	A2245876-UNC1/2	UNC 1/2-13	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4	
	A2245876-UNC5/8	UNC 5/8-11	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4	
	A2245876-UNC3/4	UNC 3/4-10	0.750	4.252	1.181	2.382	0.590	0.442	0.689	5	
	A2245876-UNC7/8	UNC 7/8-9	0.875	4.685	1.260	2.754	0.697	0.523	0.750	5	

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

C4

HSS-E machine taps

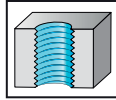
TC217 Advance inch shank



– Universal cut tap

UNC
ASME B1.1

+.003"
(H7)



$\leq 3 \times D_N$

$B=3.5-5$

370HB	100HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80RG
	TC217.UNC6-E0-	UNC 6-32	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2	
	TC217.UNC8-E0-	UNC 8-32	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3	
	TC217.UNC10-E0-	UNC 10-24	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	
	TC217.UNC1/4-E0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	
	TC217.UNC5/16-E0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	

Order example for grade WY80RG: TC217.UNC6-E0-WY80RG

C4

WALTER SELECT	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="font-size: small;"> ●● Primary application ● Other application Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions </div> </div>
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HSS-E machine taps

TC217 Advance inch shank



– Universal cut tap

$\leq 3 \times D_N$

$B=3.5-5$

370HB
100HB

UNC
ASME B1.1

+.005"
(H11)

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI											WY80RG
Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N		
TC217.UNC1/4-F0-	UNC 1/4-20	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3		
TC217.UNC5/16-F0-	UNC 5/16-18	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3		
TC217.UNC3/8-F0-	UNC 3/8-16	0.375	3.937	0.787	1.614	0.381	0.286	0.437	3		

Order example for grade WY80RG: TC217.UNC1/4-F0-WY80RG

DIN/ANSI											WY80RG
Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N		
TC217.UNC7/16-P0-	UNC 7/16-14	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3		
TC217.UNC1/2-P0-	UNC 1/2-13	0.500	4.331	0.906	3.224	0.367	0.275	0.437	3		
TC217.UNC3/4-P0-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.590	0.442	0.689	4		

Order example for grade WY80RG: TC217.UNC7/16-P0-WY80RG

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

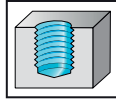
TC117 Advance inch shank



- Universal cut tap

UNC
ASME B1.1

+0.003"
(H7)



$\leq 2.5 \times D_N$

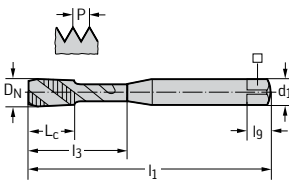
C=2-3

$\angle 40^\circ$

370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80RG
TC117.UNC8-E0-	UNC 8-32	0.164	2.480	0.276	0.984	0.168	0.131	0.250	3	☹
TC117.UNC1/4-E0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	☹
TC117.UNC5/16-E0-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	☹

Order example for grade WY80RG: TC117.UNC6-E0-WY80RG

HSS-E machine taps

TC117 Advance inch shank



– Universal cut tap

UNC
ASME B1.1

+.005"
(H11)

$\leq 2.5 \times D_N$

C=2-3

$\angle 40^\circ$

370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI											WY80RG
Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	\square in	l _g in	N		
TC117.UNC1/4-F0-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	☹	
TC117.UNC3/8-F0-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.381	0.286	0.437	3	☹	

Order example for grade WY80RG: TC117.UNC1/4-F0-WY80RG

DIN/ANSI											WY80RG
Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	\square in	l _g in	N		
TC117.UNC1/2-P0-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.367	0.275	0.437	4	☹	
TC117.UNC9/16-P0-	UNC 9/16-12	0.563	4.331	0.787	3.161	0.429	0.322	0.500	4	☹	
TC117.UNC5/8-P0-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.480	0.360	0.563	4	☹	

Order example for grade WY80RG: TC117.UNC1/2-P0-WY80RG

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

C4

HSS-E PM machine taps

Prototex® Eco Plus inch shank



- Universal high-performance cut tap
- THL: good chip control and good wear resistance

$\leq 3.5 \times D_N$

$B=3.5-5$

400HB	150HB
-------	-------

UNF

ASME B1.1

2B

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2321002-UNF10	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3
	AEP2321002-UNF1/4	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3
	AEP2321002-UNF5/16	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3
	AEP2321002-UNF3/8	UNF 3/8-24	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ h ₉ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AEP2326002-UNF7/16	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3
	AEP2326002-UNF1/2	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4
	AEP2326002-UNF5/8	UNF 5/8-18	0.625	3.937	0.827	2.193	0.480	0.360	0.563	4
	AEP2326002-UNF3/4	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4

C4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC217 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance

\leq
 $3 \times D_N$

B=3.5-5

370HB

UNF
 ASME B1.1

2B / 3B

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI										WY80FC	WY80RG
Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N		
TC217.UNF0-G0-	UNF 0-80	0.060	1.575	0.256	0.256	0.141	0.110	0.190	2	☞	☞
TC217.UNF1-G0-	UNF 1-72	0.073	1.772	0.236	0.354	0.141	0.110	0.190	2		☞
TC217.UNF3-G0-	UNF 3-56	0.099	1.969	0.315	0.492	0.141	0.110	0.190	2		☞
TC217.UNF4-G0-	UNF 4-48	0.112	2.205	0.354	0.709	0.141	0.110	0.190	2		☞
TC217.UNF5-G0-	UNF 5-44	0.125	2.205	0.394	0.709	0.141	0.110	0.190	2		☞
TC217.UNF6-G0-	UNF 6-40	0.138	2.205	0.433	0.787	0.141	0.110	0.190	2		☞
TC217.UNF8-G0-	UNF 8-36	0.164	2.480	0.472	0.827	0.168	0.131	0.250	3		☞
TC217.UNF10-G0-	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	☞	☞
TC217.UNF12-G0-	UNF 12-28	0.216	3.150	0.591	1.181	0.220	0.165	0.281	3		☞
TC217.UNF1/4-G0-	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	☞	☞
TC217.UNF5/16-G0-	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3		☞
TC217.UNF3/8-G0-	UNF 3/8-24	0.375	3.543	0.787	1.535	0.381	0.286	0.437	3	☞	☞

Order example for grade WY80RG: TC217.UNF0-G0-WY80RG

DIN/ANSI										WY80FC	WY80RG
Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N		
TC217.UNF7/16-R0-	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	☞	☞
TC217.UNF1/2-R0-	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4	☞	☞
TC217.UNF9/16-R0-	UNF 9/16-18	0.563	3.937	0.827	2.768	0.429	0.322	0.500	4	☞	☞
TC217.UNF5/8-R0-	UNF 5/8-18	0.625	3.937	0.827	2.193	0.480	0.360	0.563	4	☞	☞
TC217.UNF3/4-R0-	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4	☞	☞
TC217.UNF7/8-R0-	UNF 7/8-14	0.875	4.921	0.945	2.992	0.697	0.523	0.750	4	☞	☞

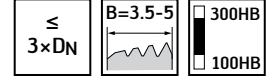
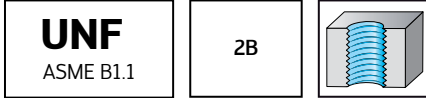
Order example for grade WY80RG: TC217.UNF7/16-R0-WY80RG

HSS-E machine taps

TC216 Perform inch shank



– Universal cut tap



	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●●			

DIN/ANSI		Designation	D _N -P	D _N in	l ₁ h9 in	L _C in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80AA
		TC216.UNF10-C0-	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	☼
		TC216.UNF1/4-C0-	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	☼
		TC216.UNF5/16-C0-	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	☼
		TC216.UNF3/8-C0-	UNF 3/8-24	0.375	3.937	0.787	1.535	0.381	0.286	0.437	3	☼

Order example for grade WY80AA: TC216.UNF10-C0-WY80AA

DIN/ANSI		Designation	D _N -P	D _N in	l ₁ h9 in	L _C in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80AA
		TC216.UNF7/16-L0-	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	☼
		TC216.UNF1/2-L0-	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4	☼
		TC216.UNF9/16-L0-	UNF 9/16-18	0.563	3.937	0.827	2.768	0.429	0.322	0.500	4	☼
		TC216.UNF5/8-L0-	UNF 5/8-18	0.625	3.937	0.827	2.193	0.480	0.360	0.563	4	☼
		TC216.UNF3/4-L0-	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4	☼

Order example for grade WY80AA: TC216.UNF9/16-L0-WY80AA

C4

WALTER SELECT	●● Primary application ● Other application	
	Best tool for → Good = 😊 → Average = 😐 → Poor = ☼	machining conditions

HSS-E machine taps

Prototex® Synchronspeed

inch shank



– For long-chipping materials



UNF
ASME B1.1

2B

	P	M	K	N	S	H	O
TIN	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation TIN	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AS2321005-UNF10	UNF 10-32	0.190	2.756	0.311	0.984	0.194	0.152	0.250	3
	AS2321005-UNF1/4	UNF 1/4-28	0.250	3.150	0.358	1.181	0.255	0.191	0.313	3

DIN/ANSI	Designation TIN	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	AS2326005-UNF1/2	UNF 1/2-20	0.500	3.937	0.500	2.831	0.367	0.275	0.437	3
	AS2326005-UNF5/8	UNF 5/8-18	0.625	3.937	0.555	2.193	0.480	0.360	0.563	4

HSS-E PM machine taps

Prototex® TiNi inch shank



- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3.5-5

410HB
200HB

UNF
ASME B1.1

3B

	P	M	K	N	S	H	O
TiCN	●●	●●	●●	●●	●●	●●	●●
uncoated	●●	●●	●●	●●	●●	●●	●●

ANSI B94.9 Cylindrical shank	Designation TiCN	Designation uncoated	DN-P	DN in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	A2320766-UNF0	A2320760-UNF0	UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
	A2320766-UNF1		UNF 1-72	0.073	1.689	0.276	0.276	0.141	0.110	0.190	2
		A2320760-UNF8	UNF 8-36	0.164	2.126	0.591	0.591	0.168	0.131	0.250	3
	A2320766-UNF10	A2320760-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
	A2320766-UNF12		UNF 12-28	0.216	2.378	0.787	0.787	0.220	0.165	0.281	3
	A2320766-UNF1/4	A2320760-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
	A2320766-UNF5/16	A2320760-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
	A2320766-UNF3/8	A2320760-UNF3/8	UNF 3/8-24	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3

ANSI B94.9 Cylindrical shank	Designation TiCN	Designation uncoated	DN-P	DN in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
	A2325766-UNF7/16	A2325760-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
	A2325766-UNF1/2	A2325760-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
	A2325766-UNF9/16	A2325760-UNF9/16	UNF 9/16-18	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
	A2325766-UNF5/8	A2325760-UNF5/8	UNF 5/8-18	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
	A2325766-UNF3/4	A2325760-UNF3/4	UNF 3/4-16	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4

C4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

Paradur® Eco Plus inch shank



- Universal high-performance cut tap
- THL: good chip control and good wear resistance

$\leq 3 \times D_N$

$C=2-3$

370HB
150HB

UNF
ASME B1.1

2B

	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AEP2351302-UNF10	UNF 10-32	0.190	2.756	0.315	0.791	0.194	0.152	0.250	3
	AEP2351302-UNF1/4	UNF 1/4-28	0.250	3.150	0.394	1.020	0.255	0.191	0.313	3
	AEP2351302-UNF5/16	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3
	AEP2351302-UNF3/8	UNF 3/8-24	0.375	3.937	0.472	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation THL	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N
	AEP2356302-UNF7/16	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3
	AEP2356302-UNF1/2	UNF 1/2-20	0.500	3.937	0.512	2.831	0.367	0.275	0.437	4
	AEP2356302-UNF9/16	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4
	AEP2356302-UNF5/8	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4
	AEP2356302-UNF3/4	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

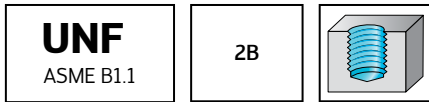
C4

HSS-E PM machine taps

Paradur® Eco Plus inch shank

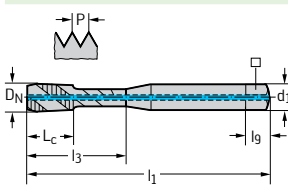


- Universal high-performance cut tap
- THL: good chip control and good wear resistance



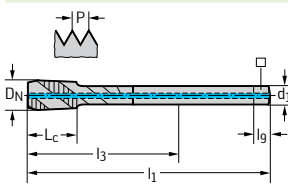
	P	M	K	N	S	H	O
THL	●●	●●	●●	●●			

DIN/ANSI



Designation THL	D _N -P	D _N in	l ₁ in	L _C in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AEP2351312-UNF1/4	UNF 1/4-28	0.250	3.150	0.394	1.020	0.255	0.191	0.313	3
AEP2351312-UNF5/16	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3
AEP2351312-UNF3/8	UNF 3/8-24	0.375	3.937	0.472	1.535	0.381	0.286	0.437	3

DIN/ANSI



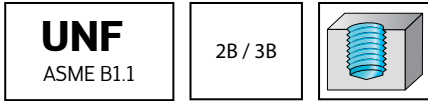
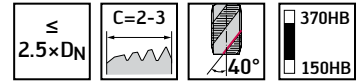
Designation THL	D _N -P	D _N in	l ₁ in	L _C in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AEP2356312-UNF7/16	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3
AEP2356312-UNF1/2	UNF 1/2-20	0.500	3.937	0.512	2.831	0.367	0.275	0.437	4
AEP2356312-UNF5/8	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4
AEP2356312-UNF3/4	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4

HSS-E machine taps

TC117 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI		Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
		TC117.UNF0-G0-	UNF 0-80	0.060	1.575	0.197	0.197	0.141	0.110	0.190	3	☼	☼
		TC117.UNF1-G0-	UNF 1-72	0.073	1.772	0.157	0.354	0.141	0.110	0.190	3	☼	☼
		TC117.UNF2-G0-	UNF 2-64	0.086	1.772	0.157	0.472	0.141	0.110	0.190	3		☼
		TC117.UNF3-G0-	UNF 3-56	0.099	1.969	0.157	0.492	0.141	0.110	0.190	3		☼
		TC117.UNF4-G0-	UNF 4-48	0.112	2.205	0.236	0.709	0.141	0.110	0.190	3		☼
		TC117.UNF6-G0-	UNF 6-40	0.138	2.205	0.256	0.787	0.141	0.110	0.190	3		☼
		TC117.UNF8-G0-	UNF 8-36	0.164	2.480	0.276	0.827	0.168	0.131	0.250	3		☼
		TC117.UNF10-G0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	☼	☼
		TC117.UNF12-G0-	UNF 12-28	0.216	3.150	0.394	1.181	0.220	0.165	0.281	3		☼
		TC117.UNF1/4-G0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	☼	☼
		TC117.UNF5/16-G0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	☼	☼
		TC117.UNF3/8-G0-	UNF 3/8-24	0.375	3.543	0.472	1.535	0.381	0.286	0.437	3	☼	☼

Order example for grade WY80RG: TC117.UNF0-G0-WY80RG

DIN/ANSI		Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC	WY80RG
		TC117.UNF7/16-R0-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	☼	☼
		TC117.UNF1/2-R0-	UNF 1/2-20	0.500	3.937	0.591	2.831	0.367	0.275	0.437	4	☼	☼
		TC117.UNF9/16-R0-	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4	☼	☼
		TC117.UNF5/8-R0-	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4	☼	☼
		TC117.UNF3/4-R0-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	☼	☼
		TC117.UNF7/8-R0-	UNF 7/8-14	0.875	4.921	0.709	2.992	0.697	0.523	0.750	4	☼	☼
		TC117.UNF1.0-R0-	UNF 1"-12	1.000	5.512	0.787	2.969	0.800	0.600	0.811	5		☼
		TC117.UNF1.1/8-R0-	UNF 1.1/8-12	1.125	5.906	0.787	3.291	0.896	0.672	0.880	5		☼

Order example for grade WY80RG: TC117.UNF7/16-R0-WY80RG

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = ☺ → Average = ☹ → Poor = ☹ machining conditions

HSS-E machine taps

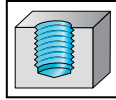
TC117 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control

UNF
ASME B1.1

2B / 3B



$\leq 2.5 \times D_N$

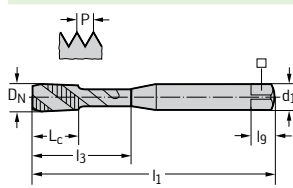
E=1.5-2

40°

370HB
150HB

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

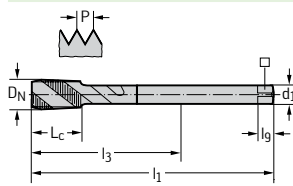
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	l _C in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80FC
TC117.UNF0-GE-	UNF 0-80	0.060	1.575	0.197	0.197	0.141	0.110	0.190	3	☹
TC117.UNF10-GE-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	☹
TC117.UNF1/4-GE-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	☹
TC117.UNF5/16-GE-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	☹
TC117.UNF3/8-GE-	UNF 3/8-24	0.375	3.543	0.472	1.535	0.381	0.286	0.437	3	☹

Order example for grade WY80FC: TC117.UNF0-GE-WY80FC

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	l _C in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N	WY80FC
TC117.UNF7/16-RE-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	☹
TC117.UNF1/2-RE-	UNF 1/2-20	0.500	3.937	0.591	2.831	0.367	0.275	0.437	4	☹
TC117.UNF9/16-RE-	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4	☹
TC117.UNF5/8-RE-	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4	☹
TC117.UNF3/4-RE-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	☹

Order example for grade WY80FC: TC117.UNF7/16-RE-WY80FC

HSS-E machine taps

TC115 Perform inch shank



– Universal cut tap

UNF
ASME B1.1

2B

$\leq 3 \times D_N$

$C=2-3$

45°

300HB
100HB

	P	M	K	N	S	H	O
WY80AA (TiN)	●●	●●	●●	●			

DIN/ANSI		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80AA
		TC115.UNF10-C0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	
		TC115.UNF1/4-C0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	
		TC115.UNF5/16-C0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	
		TC115.UNF3/8-C0-	UNF 3/8-24	0.375	3.937	0.472	1.535	0.381	0.286	0.437	3	

Order example for grade WY80AA: TC115.UNF10-C0-WY80AA

DIN/ANSI		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80AA
		TC115.UNF7/16-L0-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	
		TC115.UNF1/2-L0-	UNF 1/2-20	0.500	3.937	0.512	2.831	0.367	0.275	0.437	4	
		TC115.UNF9/16-L0-	UNF 9/16-18	0.563	3.937	0.591	2.768	0.429	0.322	0.500	4	
		TC115.UNF5/8-L0-	UNF 5/8-18	0.625	3.937	0.591	2.193	0.480	0.360	0.563	4	
		TC115.UNF3/4-L0-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	

Order example for grade WY80AA: TC115.UNF9/16-L0-WY80AA

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

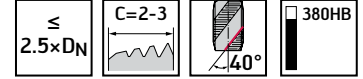
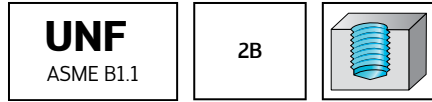
HSS-E machine taps

Paradur® Synchronspeed

inch shank



– For long-chipping materials



	P	M	K	N	S	H	O
TIN/VAP	●●	●●	●●	●	●		●

DIN/ANSI	Designation TIN/VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AS2351005-UNF10	UNF 10-32	0.190	2.756	0.335	0.984	0.194	0.152	0.250	3
	AS2351005-UNF1/4	UNF 1/4-28	0.250	3.150	0.374	1.181	0.255	0.191	0.313	3
	AS2351005-UNF5/16	UNF 5/16-24	0.313	3.543	0.433	1.378	0.318	0.238	0.380	3
	AS2351005-UNF3/8	UNF 3/8-24	0.375	3.937	0.433	1.535	0.381	0.286	0.437	3

DIN/ANSI	Designation TIN/VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AS2356005-UNF7/16	UNF 7/16-20	0.438	3.937	0.531	2.862	0.323	0.242	0.406	3
	AS2356005-UNF1/2	UNF 1/2-20	0.500	3.937	0.531	2.831	0.367	0.275	0.437	4

C4

WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E (-PM) machine taps

TC142 Supreme inch shank



- For stainless steels
- WY80FC: best chip control

UNF
ASME B1.1

2BX

$\leq 3 \times D_N$

$C=2-3$

350HB
100HB

	P	M	K	N	S	H	O
WY80FC (VAP)	●	●●					

DIN/ANSI		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80FC
		TC142.UNF10-C0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	
		TC142.UNF1/4-C0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	
		TC142.UNF3/8-C0-	UNF 3/8-24	0.375	3.937	0.472	1.535	0.381	0.286	0.437	3	

Order example for grade WY80FC: TC142.UNF10-C0-WY80FC

DIN/ANSI		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80FC
		TC142.UNF7/16-L0-	UNF 7/16-20	0.438	3.937	0.591	2.862	0.323	0.242	0.406	3	
		TC142.UNF1/2-L0-	UNF 1/2-20	0.500	3.937	0.591	2.831	0.367	0.275	0.437	4	

Order example for grade WY80FC: TC142.UNF7/16-L0-WY80FC

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Eco CI

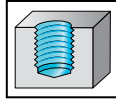
inch shank



- For short-chipping ISO K materials (GJL / CGI)
- For short-chipping aluminum alloys (Si content > 7 %)

UNF
ASME B1.1

2B



$\leq 3 \times D_N$

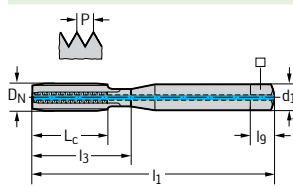
C=2-3



300HB
40HB

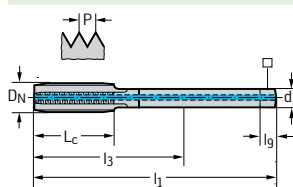
TICN	P	M	K	N	S	H	O
			●●	●●			●●

DIN/ANSI



Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AE2331416-UNF1/4	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	4
AE2331416-UNF5/16	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	4
AE2331416-UNF3/8	UNF 3/8-24	0.375	3.937	0.787	1.535	0.381	0.286	0.437	4

DIN/ANSI



Designation TICN	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AE2336416-UNF7/16	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	4
AE2336416-UNF1/2	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4
AE2336416-UNF9/16	UNF 9/16-18	0.563	3.937	0.827	2.768	0.429	0.322	0.500	4
AE2336416-UNF3/4	UNF 3/4-16	0.750	4.331	0.945	2.461	0.590	0.442	0.689	4
AE2336416-UNF7/8	UNF 7/8-14	0.875	4.921	0.945	2.992	0.697	0.523	0.750	5

C4

WALTER
SELECT

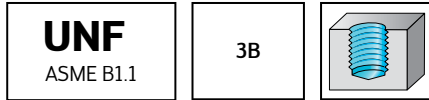
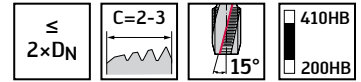
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
TICN	●●			●	●●		
VAP	●●			●	●●		

ANSI B94.9	Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	
												Cylindrical shank
	A2340606S-UNF0	A23406S-UNF0	UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2	
		A23406S-UNF1	UNF 1-72	0.073	1.689	0.276	0.276	0.141	0.110	0.190	2	
		A23406S-UNF6	UNF 6-40	0.138	2.000	0.512	1.220	0.141	0.110	0.190	3	
	A2340606S-UNF8		UNF 8-36	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3	
	A2340606S-UNF10	A23406S-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3	
	A2340606S-UNF1/4	A23406S-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3	
	A2340606S-UNF5/16	A23406S-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3	
		A23406S-UNF3/8	UNF 3/8-24	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3	

ANSI B94.9	Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	
												Cylindrical shank
	A2345606S-UNF7/16	A23456S-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4	
	A2345606S-UNF1/2	A23456S-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4	
	A2345606S-UNF9/16		UNF 9/16-18	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4	
		A23456S-UNF3/4	UNF 3/4-16	0.750	4.252	1.181	2.382	0.590	0.442	0.689	4	
		A23456S-UNF7/8	UNF 7/8-14	0.875	4.685	1.260	2.756	0.697	0.523	0.750	4	
	A2345606S-UNF1		UNF 1"-12	1.000	5.126	1.457	2.583	0.800	0.600	0.811	4	

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C4

HSS-E machine taps

Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials

UNF
ASME B1.1

3B

$\leq 2 \times DN$

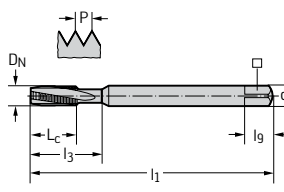
$E=1.5-2$

15°

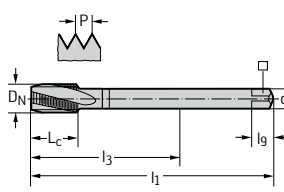
410HB
200HB

	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
Cylindrical shank		A2340661S-UNF0	UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
		A2340661S-UNF1	UNF 1-72	0.073	1.689	0.276	0.276	0.141	0.110	0.190	2
		A2340661S-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
		A2340661S-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
		A2340661S-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3



ANSI B94.9		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
Cylindrical shank		A2345661S-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
		A2345661S-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4



C4

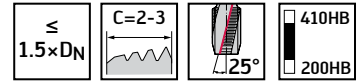
WALTER SELECT

●● Primary application ● Other application

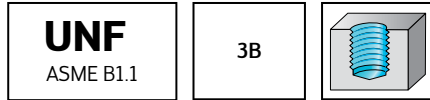
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ni inch shank



– For long-chipping materials



	P	M	K	N	S	H	O
TICN	●				●●		
VAP	●				●●		

ANSI B94.9		Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank 	A2340806-UNF0			UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
	A2340806-UNF1			UNF 1-72	0.073	1.689	0.276	0.276	0.141	0.110	0.190	2
		A234002S-UNF6		UNF 6-40	0.138	2.000	0.512	1.220	0.141	0.110	0.190	3
		A234002S-UNF8		UNF 8-36	0.164	2.126	0.591	1.283	0.168	0.131	0.250	3
	A2340806-UNF10	A234002S-UNF10		UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
		A234002S-UNF12		UNF 12-28	0.216	2.378	0.787	1.504	0.220	0.165	0.281	3
	A2340806-UNF1/4	A234002S-UNF1/4		UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
	A2340806-UNF5/16	A234002S-UNF5/16		UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
A2340806-UNF3/8	A234002S-UNF3/8		UNF 3/8-24	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3	

ANSI B94.9		Designation TICN	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank 	A2345806-UNF7/16	A234502S-UNF7/16		UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
	A2345806-UNF1/2	A234502S-UNF1/2		UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
	A2345806-UNF9/16	A234502S-UNF9/16		UNF 9/16-18	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
	A2345806-UNF5/8			UNF 5/8-18	0.625	3.811	1.102	2.067	0.480	0.360	0.563	4
	A2345806-UNF3/4	A234502S-UNF3/4		UNF 3/4-16	0.750	4.252	1.181	2.382	0.590	0.442	0.689	5

**WALTER
SELECT**

●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

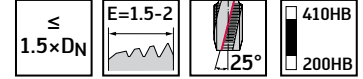
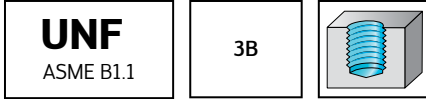
C4

HSS-E machine taps

Paradur® Ni inch shank

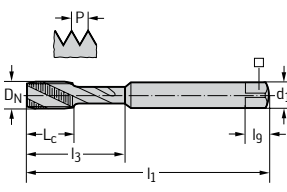


– For long-chipping materials

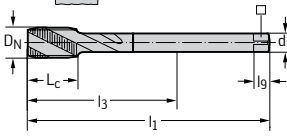


	P	M	K	N	S	H	O
VAP	●				●●		

ANSI B94.9		Designation VAP	D _N -P	D _N in	l ₁ in	L _C in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank		A234003S-UNF0	UNF 0-80	0.060	1.626	0.217	0.217	0.141	0.110	0.190	2
		A234003S-UNF10	UNF 10-32	0.190	2.378	0.709	0.709	0.194	0.152	0.250	3
		A234003S-UNF1/4	UNF 1/4-28	0.250	2.500	0.630	1.102	0.255	0.191	0.313	3
		A234003S-UNF5/16	UNF 5/16-24	0.313	2.717	0.748	1.299	0.318	0.238	0.380	3
		A234003S-UNF3/8	UNF 3/8-24	0.375	2.937	0.748	1.398	0.381	0.286	0.437	3



ANSI B94.9		Designation VAP	D _N -P	D _N in	l ₁ in	L _C in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank		A234503S-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
		A234503S-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4
		A234503S-UNF9/16	UNF 9/16-18	0.563	3.594	1.024	2.425	0.429	0.322	0.500	4
		A234503S-UNF3/4	UNF 3/4-16	0.750	4.252	1.181	2.382	0.590	0.442	0.689	5



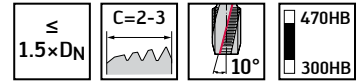
C4

WALTER SELECT ●● Primary application ● Other application

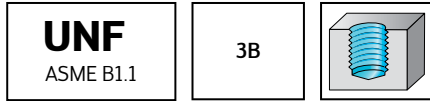
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps

Paradur® Ni 10 inch shank



– For long- and short-chipping materials



	P	M	K	N	S	H	O
TICN	●●			●	●●		

ANSI B94.9		Designation	D_N -P	D_N	l_1	L_c	l_3	d_1	h_9	l_g	N
Cylindrical shank		TICN		in	in	in	in	in	in	in	
		A2340876-UNF0	UNF 0-80	0.060	1.626	0.217	0.848	0.141	0.110	0.190	3
		A2340876-UNF1	UNF 1-72	0.073	1.689	0.276	0.911	0.141	0.110	0.190	3
		A2340876-UNF8	UNF 8-36	0.164	2.126	0.512	1.285	0.168	0.131	0.250	3
		A2340876-UNF10	UNF 10-32	0.190	2.378	0.630	1.537	0.194	0.152	0.250	3
		A2340876-UNF1/4	UNF 1/4-28	0.250	2.500	0.787	1.596	0.255	0.191	0.313	3
		A2340876-UNF5/16	UNF 5/16-24	0.313	2.717	0.984	1.746	0.318	0.238	0.380	3
		A2340876-UNF3/8	UNF 3/8-24	0.375	2.937	1.181	1.831	0.381	0.286	0.437	3

ANSI B94.9		Designation	D_N -P	D_N	l_1	L_c	l_3	d_1	h_9	l_g	N
Cylindrical shank		TICN		in	in	in	in	in	in	in	
		A2345876-UNF7/16	UNF 7/16-20	0.438	3.157	0.866	2.083	0.323	0.242	0.406	4
		A2345876-UNF1/2	UNF 1/2-20	0.500	3.378	0.945	2.272	0.367	0.275	0.437	4

WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C4

HSS-E machine taps

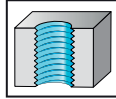
TC217 Advance inch shank



- Universal cut tap

UNF
ASME B1.1

$\pm .003''$
(H7)



\leq
 $3 \times D_N$

$B=3.5-5$

370HB
100HB

	P	M	K	N	S	H	O
WY80RG (TiAIN)	●●	●●	●●	●●	●	●	●

DIN/ANSI	Designation	D_N -P	D_N in	l_1 h9 in	L_c in	l_3 in	d_1 in	\square in	l_g in	N	WY80RG
	TC217.UNF10-E0-	UNF 10-32	0.190	2.756	0.512	0.984	0.194	0.152	0.250	3	●●
	TC217.UNF1/4-E0-	UNF 1/4-28	0.250	3.150	0.591	1.181	0.255	0.191	0.313	3	●●
	TC217.UNF5/16-E0-	UNF 5/16-24	0.313	3.543	0.709	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80RG: TC217.UNF6-E0-WY80RG

C4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

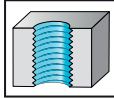
TC217 Advance inch shank



- Universal cut tap

UNF
ASME B1.1

+.005"
(H11)



$\leq 3 \times D_N$

$B=3.5-5$

370HB
100HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80RG
	TC217.UNF3/8-F0-	UNF 3/8-24	0.375	3.543	0.787	1.535	0.381	0.286	0.437	3	☹

Order example for grade WY80RG: TC217.UNF3/8-F0-WY80RG

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80RG
	TC217.UNF7/16-P0-	UNF 7/16-20	0.438	3.937	0.787	2.862	0.323	0.242	0.406	3	☹
	TC217.UNF1/2-P0-	UNF 1/2-20	0.500	3.937	0.827	2.831	0.367	0.275	0.437	4	☹

Order example for grade WY80RG: TC217.UNF7/16-P0-WY80RG

**WALTER
SELECT**

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

C4

HSS-E machine taps

TC117 Advance inch shank



- Universal cut tap

UNF
ASME B1.1

+.003"
(H7)

$\leq 2.5 \times D_N$

$C=2-3$

$\angle 40^\circ$

370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80RG
	TC117.UNF10-E0-	UNF 10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	3	●●
	TC117.UNF1/4-E0-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.255	0.191	0.313	3	●●
	TC117.UNF5/16-E0-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.318	0.238	0.380	3	●●

Order example for grade WY80RG: TC117.UNF10-E0-WY80RG

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC117 Advance inch shank



– Universal cut tap

UNF
ASME B1.1

+.005"
(H11)

$\leq 2.5 \times DN$

C=2-3

$\angle 40^\circ$

370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI	Designation	DN-P	DN in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80RG
	TC117.UNF3/8-F0-	UNF 3/8-24	0.375	3.543	0.472	1.535	0.381	0.286	0.437	3	☹

Order example for grade WY80RG: TC117.UNF5/16-F0-WY80RG

DIN/ANSI	Designation	DN-P	DN in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80RG
	TC117.UNF3/4-P0-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	4	☹

Order example for grade WY80RG: TC117.UNF7/16-P0-WY80RG

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

C4

HSS-E machine taps

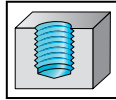
TC117 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80RG: good chip control, good wear resistance

UN-8
ASME B1.1

2B / 3B



≤
2.5×D_N

C=2-3

40°

370HB
150HB

	P	M	K	N	S	H	O
WY80RG (TiAlN)	●●	●●	●●	●●	●●	●●	●●

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h ₉ in	□ in	l _g in	N	WY80RG
	TC117.UN1.1/8-R0-	UN 1.1/8-8	1.125	7.087	1.181	4.472	0.896	0.672	0.880	5	●●
	TC117.UN1.1/4-R0-	UN 1.1/4-8	1.250	7.087	1.181	4.354	1.021	0.766	1.000	5	●●
	TC117.UN1.3/8-R0-	UN 1.3/8-8	1.375	7.874	1.181	4.016	1.108	0.831	1.063	5	●●

Order example for grade WY80RG: TC117.UN1.1/8-R0-WY80RG

C4

WALTER
SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC117 Advance inch shank



- Universal cut tap
- For 2B and 3B tolerances
- WY80FC: best chip control
- WY80RG: good chip control, good wear resistance

$\leq 2.5 \times D_N$

$C=2-3$

370HB
150HB

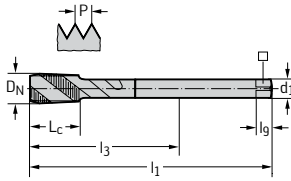
UNS
ASME B1.1

2B / 3B

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			
WY80RG (TiAlN)	●●	●●	●●	●●			

DIN/ANSI											WY80FC	WY80RG
Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N			
TC117.UNS1.0-R0-	UNS 1"-14	1.000	5.512	0.787	2.969	0.800	0.600	0.811	5	☞	☞	

Order example for grade WY80RG: TC117.UNS1.0-R0-WY80RG



C4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E machine taps TC217 Advance



- Universal cut tap
- WY80FC: best chip control

$\leq 3 \times D_N$

$B=3.5-5$

370HB	100HB
-------	-------

STI-UNC
NASM 33537

3B

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.STIUNC2-B0-	STI-UNC 2-56	0.109	2.205	0.354	0.709	0.141	0.110	0.190	2	
	TC217.STIUNC4-B0-	STI-UNC 4-40	0.144	2.205	0.472	0.827	0.141	0.110	0.190	2	
	TC217.STIUNC6-B0-	STI-UNC 6-32	0.179	2.756	0.512	0.984	0.194	0.152	0.250	3	
	TC217.STIUNC8-B0-	STI-UNC 8-32	0.205	2.756	0.591	0.984	0.194	0.152	0.250	3	
	TC217.STIUNC10-B0-	STI-UNC 10-24	0.244	3.150	0.591	1.181	0.255	0.191	0.313	3	
	TC217.STIUNC1/4B0-	STI-UNC 1/4-20	0.315	3.543	0.709	1.378	0.318	0.238	0.380	3	

Order example for grade WY80FC: TC217.STIUNC2-B0-WY80FC

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.STIUNC3/8K0-	STI-UNC 3/8-16	0.456	3.937	0.827	2.831	0.367	0.275	0.437	4	

Order example for grade WY80FC: TC217.STIUNC3/8K0-WY80FC

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E PM machine taps



Prototex® TiNi inch shank

- Recommended with oil
- For long-chipping materials

≤
2×DN

B=3.5-5

410HB

200HB

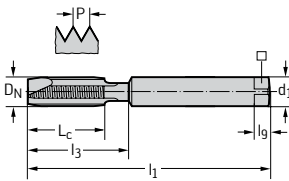
STI-UNC
NASM 33537

3B

	P	M	K	N	S	H	O
uncoated	●●	●●	●	●	●●	●	●

ANSI B94.9

Cylindrical shank



Designation uncoated	DN-P	DN in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
A222079-STIUNC2	STI-UNC 2-56	0.109	1.878	0.394	0.394	0.141	0.110	0.190	2
A222079-STIUNC4	STI-UNC 4-40	0.144	2.000	0.591	0.591	0.141	0.110	0.190	3
A222079-STIUNC6	STI-UNC 6-32	0.179	2.378	0.709	0.709	0.194	0.152	0.250	3
A222079-STIUNC8	STI-UNC 8-32	0.205	2.378	0.787	0.787	0.220	0.165	0.281	3
A222079-STIUNC1/4	STI-UNC 1/4-20	0.315	2.717	0.748	1.299	0.318	0.238	0.380	3

HSS-E machine taps

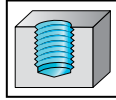
TC117 Advance inch shank



- Universal cut tap
- WY80FC: best chip control

STI-UNC
NASM 33537

3B



≤
2.5×DN

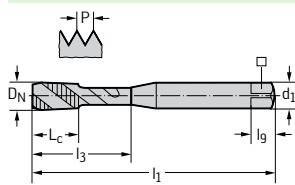
C=2-3

40°

370HB
150HB

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

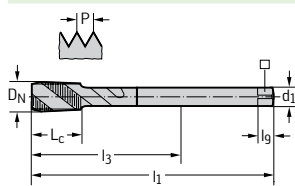
DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC
TC117.STIUNC2-B0-	STI-UNC 2-56	0.109	2.205	0.236	0.709	0.141	0.110	0.190	3	☹
TC117.STIUNC4-B0-	STI-UNC 4-40	0.144	2.205	0.276	0.827	0.141	0.110	0.190	3	☹
TC117.STIUNC6-B0-	STI-UNC 6-32	0.179	2.756	0.315	0.984	0.194	0.152	0.250	3	☹
TC117.STIUNC8-B0-	STI-UNC 8-32	0.205	2.756	0.394	0.984	0.194	0.152	0.250	3	☹
TC117.STIUNC10-B0-	STI-UNC 10-24	0.244	3.150	0.394	1.181	0.255	0.191	0.313	3	☹
TC117.STIUNC1/4B0-	STI-UNC 1/4-20	0.315	3.543	0.472	1.378	0.318	0.238	0.380	3	☹

Order example for grade WY80FC: TC117.STIUNC2-B0-WY80FC

DIN/ANSI



Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC
TC117.STIUNC3/8K0-	STI-UNC 3/8-16	0.456	3.937	0.591	2.831	0.367	0.275	0.437	3	☹

Order example for grade WY80FC: TC117.STIUNC3/8K0-WY80FC

HSS-E machine taps

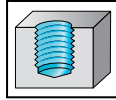
Paradur® X-pert N inch shank



– For long-chipping aluminum alloys (Si content < 7 %)

STI-UNC
NASM 33537

3B



$\leq 3 \times D_N$

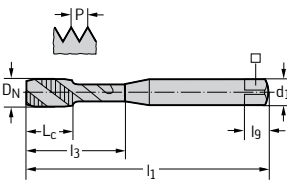
C=2-3

35°

200HB
60HB

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN/ANSI



Designation uncoated	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
AN225069-STIUNC2	STI-UNC 2-56	0.109	2.205	0.236	0.709	0.141	0.110	0.190	2
AN225069-STIUNC4	STI-UNC 4-40	0.144	2.205	0.276	0.827	0.141	0.110	0.190	2
AN225069-STIUNC6	STI-UNC 6-32	0.179	2.756	0.315	0.984	0.194	0.152	0.250	2
AN225069-STIUNC8	STI-UNC 8-32	0.205	2.756	0.394	0.984	0.194	0.152	0.250	2

C4

**WALTER
SELECT**

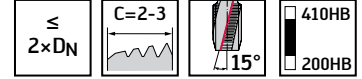
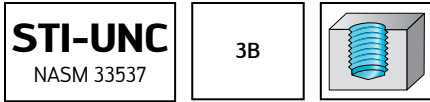
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ti inch shank

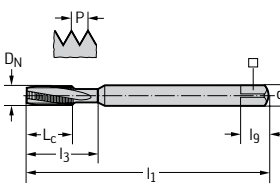


- Recommended with oil
- For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●			●	●●		

ANSI B94.9		Designation VAP	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N
Cylindrical shank		A224060S-STIUNC2	EGUNC 2-56	0.109	1.878	0.394	0.394	0.141	0.110	0.190	2
		A224060S-STIUNC4	EGUNC 4-40	0.144	2.000	0.512	1.220	0.141	0.110	0.190	3
		A224060S-STIUNC6	EGUNC 6-32	0.179	2.378	0.709	0.709	0.194	0.152	0.250	3
		A224060S-STIUNC8	EGUNC 8-32	0.205	2.378	0.787	1.504	0.220	0.165	0.281	3
		A224060S-STIUNC10	EGUNC 10-24	0.244	2.500	0.630	1.102	0.255	0.191	0.313	3



C4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

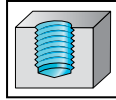
Paradur® Ni inch shank



– For long-chipping materials

STI-UNC
NASM 33537

3B



≤
1.5×DN

C=2-3

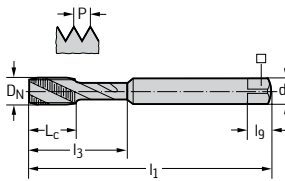
25°

410HB
200HB

	P	M	K	N	S	H	O
VAP	●●		●●	●	●		

ANSI B94.9

Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
A224089S-STIUNC2	EGUNC 2-56	0.109	1.878	0.394	0.394	0.141	0.110	0.190	3
A224089S-STIUNC4	EGUNC 4-40	0.144	2.000	0.512	1.220	0.141	0.110	0.190	3
A224089S-STIUNC6	EGUNC 6-32	0.179	2.378	0.709	0.709	0.194	0.152	0.250	3
A224089S-STIUNC8	EGUNC 8-32	0.205	2.378	0.787	0.787	0.220	0.165	0.281	3
A224089S-STIUNC1/4	EGUNC 1/4-20	0.315	2.717	0.748	1.299	0.318	0.238	0.380	3

C4

**WALTER
SELECT**

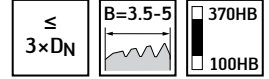
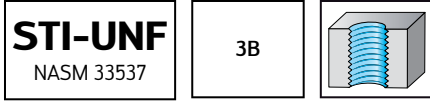
●● Primary application ● Other application
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

TC217 Advance inch shank



- Universal cut tap
- WY80FC: best chip control



	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.STIUNF10-B0-	STI-UNC 10-32	0.231	3.150	0.591	1.181	0.255	0.191	0.313	3	☞
	TC217.STIUNF1/4B0-	STI-UNC 1/4-28	0.296	3.543	0.709	1.378	0.318	0.238	0.380	3	☞

Order example for grade WY80FC: TC217.STIUNF10-B0-WY80FC

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WY80FC
	TC217.STIUNF3/8K0-	STI-UNC 3/8-24	0.456	3.937	0.787	2.862	0.323	0.242	0.406	3	☞

Order example for grade WY80FC: TC217.STIUNF3/8K0-WY80FC

C4

WALTER SELECT ●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

HSS-E PM machine taps

Prototex® TiNi inch shank



- Recommended with oil
- For long-chipping materials

STI-UNF
NASM 33537

3B

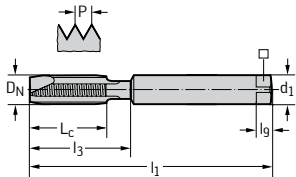
$\leq 2 \times D_N$

$B=3.5-5$

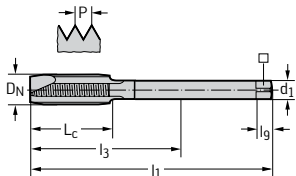
410HB
200HB

	P	M	K	N	S	H	O
uncoated	●●	●●	●	●	●●	●	●

	Designation uncoated	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
Cylindrical shank	A232079-STIUNF10	EGUNF 10-32	0.231	2.500	0.630	1.181	0.255	0.191	0.313	3
	A232079-STIUNF1/4	EGUNF 1/4-28	0.296	2.717	0.748	1.299	0.318	0.238	0.380	3



	Designation uncoated	D _N -P	D _N in	l ₁ h9 in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N
Cylindrical shank	A232579-STIUNF3/8	EGUNF 3/8-24	0.429	3.157	0.866	2.083	0.323	0.242	0.406	3



WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

C4

HSS-E machine taps

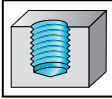
TC117 Advance inch shank



- Universal cut tap
- WY80FC: best chip control

STI-UNF
NASM 33537

3B



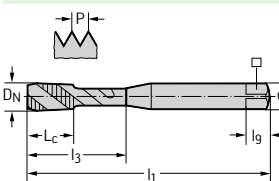
$\leq 2.5 \times D_N$

$C=2-3$

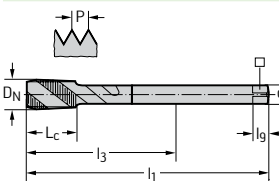
$\angle 40^\circ$

370HB
150HB

	P	M	K	N	S	H	O
WY80FC (VAP)	●●	●●	●●	●●			

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC
	TC117.STIUNF10-B0-	STI-UNC 10-32	0.231	3.150	0.394	1.181	0.255	0.191	0.313	3	☞
	TC117.STIUNF1/4B0-	STI-UNC 1/4-28	0.296	3.543	0.472	1.378	0.318	0.238	0.380	3	☞

Order example for grade WY80FC: TC117.STIUNF10-B0-WY80FC

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80FC
	TC117.STIUNF3/8K0-	STI-UNC 3/8-24	0.456	3.937	0.591	2.862	0.323	0.242	0.406	3	☞

Order example for grade WY80FC: TC117.STIUNF3/8K0-WY80FC

C4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☞ machining conditions

HSS-E machine taps

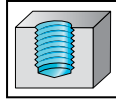
Paradur® X-pert N inch shank



- For long-chipping aluminum alloys (Si content < 7 %>

STI-UNF
NASM 33537

3B



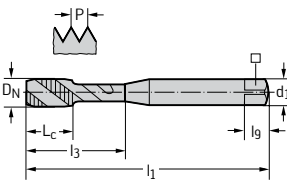
$\leq 3 \times D_N$

$C=2-3$

200HB
60HB

	P	M	K	N	S	H	O
uncoated				●●	●		●

DIN/ANSI



Designation uncoated	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
AN235069-STIUNF10	STI-UNC 10-32	0.231	3.150	0.394	1.181	0.255	0.191	0.313	2

HSS-E machine taps

Paradur® Ti inch shank



- Recommended with oil
- For long-chipping materials

STI-UNF
NASM 33537

3B

$\leq 2 \times D_N$

$C=2-3$

410HB
200HB

	P	M	K	N	S	H	O
VAP	●●			●	●●		

	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank 	A234060S-STIUNF8	EGUNF 8-36	0.200	2.378	0.787	0.787	0.220	0.165	0.281	3
	A234060S-STIUNF10	EGUNF 10-32	0.231	2.500	0.630	1.102	0.255	0.191	0.313	3
	A234060S-STIUNF1/4	EGUNF 1/4-28	0.296	2.717	0.748	1.299	0.318	0.238	0.380	3
	A234060S-STIUNF5/16	EGUNF 5/16-24	0.367	2.937	0.748	1.398	0.381	0.286	0.437	3

	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank 	A234560S-STIUNF3/8	EGUNF 3/8-24	0.429	3.157	0.866	2.083	0.323	0.242	0.406	4

C4

**WALTER
SELECT**

●● Primary application
● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ni inch shank



– For long-chipping materials

STI-UNF
NASM 33537

3B

$\leq 1.5 \times D_N$

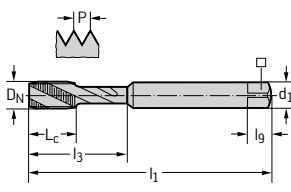
$C=2-3$

25°

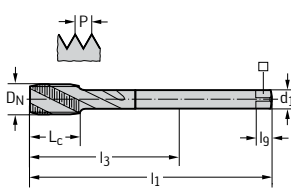
410HB
200HB

	P	M	K	N	S	H	O
VAP	●●		●●	●	●		

ANSI B94.9	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank	A234000S-STIUNF10	EGUNF 10-32	0.231	2.500	0.630	1.102	0.255	0.191	0.313	3
	A234000S-STIUNF1/4	EGUNF 1/4-28	0.296	2.717	0.748	1.299	0.318	0.238	0.380	3
	A234000S-STIUNF5/16	EGUNF 5/16-24	0.367	2.937	0.748	1.398	0.381	0.286	0.437	3



ANSI B94.9	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank	A234589S-STIUNF3/8	EGUNF 3/8-24	0.429	3.157	0.866	2.083	0.323	0.242	0.406	4



WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹️ machining conditions

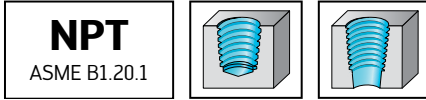
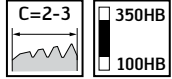
C4

HSS-E machine taps

Paradur Inox® inch shank



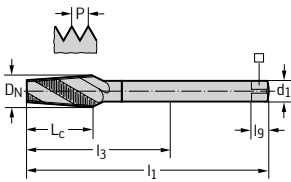
– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●	●●	●				

DIN/ANSI

Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l ₉ in	N
A25563-NPT1/16	NPT 1/16-27	0.304	3.150	0.551	2.184	0.313	0.234	0.234	3
A25563-NPT1/8	NPT 1/8-27	0.396	3.543	0.551	2.499	0.437	0.328	0.328	4
A25563-NPT1/4	NPT 1/4-18	0.526	3.937	0.787	2.319	0.562	0.421	0.421	4
A25563-NPT3/8	NPT 3/8-18	0.662	4.331	0.787	2.650	0.700	0.531	0.531	5
A25563-NPT1/2	NPT 1/2-14	0.825	4.921	1.024	3.115	0.687	0.515	0.515	5
A25563-NPT3/4	NPT 3/4-14	1.035	5.512	1.024	3.092	0.906	0.679	0.679	5

C4

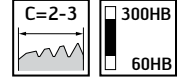
WALTER SELECT ●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

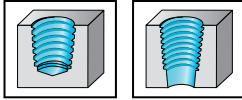
Paradur® H inch shank



- For long- and short-chipping materials



NPTF
ASME B1.20.3



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN/ANSI	Designation uncoated	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AC26361-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
	AC26361-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
	AC26361-NPTF3/8	NPTF 3/8-18	0.660	4.331	0.787	2.650	0.700	0.531	0.531	5

C4

WALTER SELECT ●● Primary application ● Other application

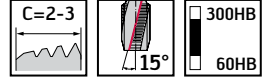
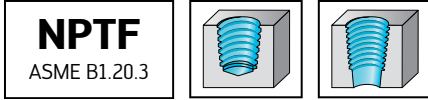
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine taps

Paradur® Ni inch shank

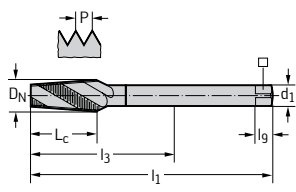


– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●		●●	●●			

DIN/ANSI	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
Cylindrical shank	A264602-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
	A264602-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
	A264602-NPTF3/8	NPTF 3/8-18	0.660	4.331	0.787	2.650	0.700	0.531	0.531	5



C4

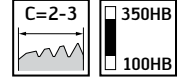
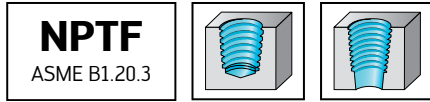
WALTER SELECT		●● Primary application ● Other application
	Best tool for → Good = 😊 → Average = 😐 → Poor = 😞	machining conditions

HSS-E machine taps

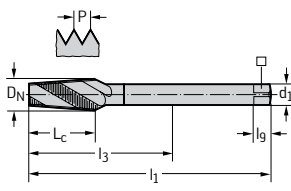
Paradur Inox® inch shank



– For long-chipping materials



	P	M	K	N	S	H	O
VAP	●●	●●	●				

DIN/ANSI	Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	\square in	l _g in	N
Cylindrical shank 	A26563-NPTF1/16	NPTF 1/16-27	0.301	3.150	0.551	2.184	0.313	0.234	0.234	3
	A26563-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
	A26563-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
	A26563-NPTF3/8	NPTF 3/8-18	0.660	4.331	0.787	2.650	0.700	0.531	0.531	5
	A26563-NPTF1/2	NPTF 1/2-14	0.824	4.921	1.024	3.115	0.687	0.515	0.515	5
	A26563-NPTF3/4	NPTF 3/4-14	1.034	5.512	1.024	3.092	0.906	0.679	0.679	5

C4

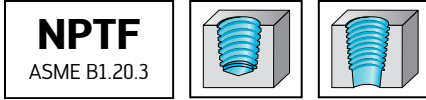
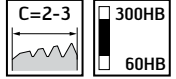
WALTER SELECT		●● Primary application ● Other application Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions
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HSS-E machine taps

Paradur® H inch shank



– For long- and short-chipping materials



	P	M	K	N	S	H	O
uncoated			●	●●			●

DIN/ANSI	Designation uncoated	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
	AC26361-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
	AC26361-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
	AC26361-NPTF1/2	NPTF 1/2-14	0.824	4.921	1.024	3.115	0.687	0.515	0.515	5

C4

WALTER SELECT	●● Primary application ● Other application Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions
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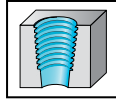
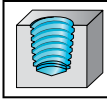
HSS-E machine taps

Paradur® Ni inch shank



– For long-chipping materials

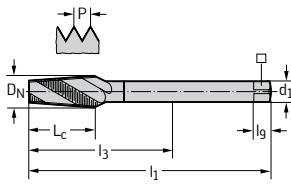
NPTF
ASME B1.20.3



	P	M	K	N	S	H	O
VAP	●●		●●	●●			

DIN/ANSI

Cylindrical shank



Designation VAP	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N
A264602-NPTF1/8	NPTF 1/8-27	0.393	3.543	0.551	2.499	0.437	0.328	0.328	4
A264602-NPTF1/4	NPTF 1/4-18	0.524	3.937	0.787	2.319	0.562	0.421	0.421	4
A264602-NPTF3/8	NPTF 3/8-18	0.660	4.331	0.787	2.650	0.700	0.531	0.531	5

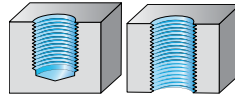
WALTER SELECT

●● Primary application ● Other application
 Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

C4

HSS-E thread formers

Machining



Thread depth

3.5 x D_N

3.5 x D_N



Designation	TC410 Advance	TC420 Supreme
Thread type		
M	✓	
MF		
UNC / UNF / UN-8	✓	✓
G / Rc / Rp		
MJ / UNJC / UNJF		
NPT / NPTF		
Pg / BSW / Tr		
STI-UNC / STI-UNF		
Tolerance	2BX / 6HX	2BX
Coolant supply	External	radial
Chamfer form	C	C
Coating / grade	WY80AD	WW60AD
Cutting tool material	HSS-E	HSS-E-PM
P Steel	●●	●●
M Stainless steel	●●	●
K Cast iron	●	●
N NF metals	●●	●●
S Materials with difficult cutting properties	●	●
H Hard materials		
O Other		
Page in catalog	101	102
QR code		
www.walter-tools.com/woc/	TC410	TC420

C4

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E machine thread formers

TC410 Advance inch shank

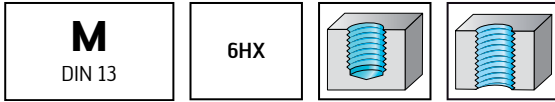


- Universal form tap
- With lubrication grooves

$\leq 3.5 \times D_N$

$C=2-3$

350HB
60HB



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN/ANSI		Designation	D_N	P mm	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80AD
		TC410.M3-C6-	M 3	0.5	2.205	0.354	0.709	0.141	0.110	0.190	4	
		TC410.M4-C6-	M 4	0.7	2.480	0.472	0.827	0.168	0.131	0.250	5	
		TC410.M5-C6-	M 5	0.8	2.756	0.512	0.984	0.194	0.152	0.250	5	
		TC410.M6-C6-	M 6	1.0	3.150	0.591	1.181	0.255	0.191	0.313	5	
		TC410.M8-C6-	M 8	1.25	3.543	0.709	1.378	0.318	0.238	0.380	5	
		TC410.M10-C6-	M 10	1.5	3.937	0.787	1.535	0.318	0.286	0.437	6	

Order example for grade WY80AD: TC410.M3-C6-WY80AD

DIN/ANSI		Designation	D_N	P mm	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80AD
		TC410.M12-L6-	M 12	1.75	4.331	0.906	3.224	0.367	0.275	0.437	6	
		TC410.M16-L6-	M 16	2.0	4.331	0.984	2.587	0.480	0.360	0.563	6	
		TC410.M20-L6-	M 20	2.5	5.512	1.181	3.642	0.652	0.489	0.689	7	

Order example for grade WY80AD: TC410.M12-L6-WY80AD

**WALTER
SELECT**

●● Primary application ● Other application

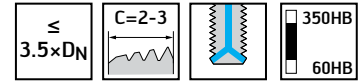
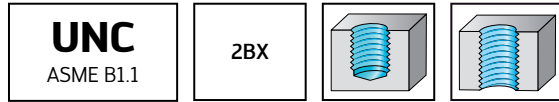
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme inch shank



- Universal high-performance form tap
- With lubrication grooves



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●●	●		

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WW60AD
	TC420.UNC10-C2-	UNC #10-24	0.190	2.756	0.315	0.984	0.194	0.152	0.250	5	●●
	TC420.UNC1/4-C2-	UNC 1/4-20	0.250	3.150	0.394	1.181	0.250	0.191	0.313	5	●●
	TC420.UNC5/16-C2-	UNC 5/16-18	0.313	3.543	0.472	1.378	0.313	0.238	0.380	5	●●
	TC420.UNC3/8-C2-	UNC 3/8-16	0.375	3.937	0.591	1.535	0.375	0.286	0.437	5	●●

Order example for grade WW60AD: TC420.UNC1/4-C2-WW60AD

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WW60AD
	TC420.UNC1/2-L2-	UNC 1/2-13	0.500	4.331	0.709	3.224	0.500	0.275	0.437	6	●●
	TC420.UNC5/8-L2-	UNC 5/8-11	0.625	4.331	0.787	2.587	0.625	0.360	0.563	6	●●
	TC420.UNC3/4-L2-	UNC 3/4-10	0.750	4.921	0.984	3.051	0.590	0.442	0.689	7	●●

Order example for grade WW60AD: TC420.UNC1/2-L2-WW60AD

WALTER SELECT		●● Primary application	● Other application	
	Best tool for	→ Good = 😊	→ Average = 😐	→ Poor = 😞

HSS-E machine thread formers

TC410 Advance inch shank



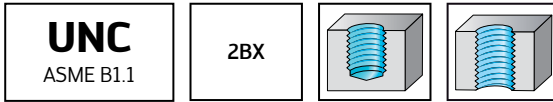
- Universal form tap
- With lubrication grooves

$\leq 3.5 \times D_N$

$C=2-3$

350HB

60HB



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80AD
	TC410.UNC2-C6-	UNC 2-56	0.086	1.772	0.276	0.472	0.086	0.110	0.190	3	
	TC410.UNC4-C6-	UNC 4-40	0.112	2.205	0.354	0.709	0.112	0.110	0.190	3	
	TC410.UNC5-C6-	UNC 5-40	0.125	2.205	0.394	0.709	0.125	0.110	0.190	4	
	TC410.UNC6-C6-	UNC 6-32	0.138	2.205	0.512	0.787	0.138	0.110	0.190	4	
	TC410.UNC8-C6-	UNC 8-32	0.164	2.480	0.591	0.984	0.164	0.131	0.250	5	
	TC410.UNC10-C6-	UNC 10-24	0.190	2.756	0.709	0.984	0.190	0.152	0.250	5	
	TC410.UNC1/4-C6-	UNC 1/4-20	0.250	3.150	0.630	1.181	0.250	0.191	0.313	5	
	TC410.UNC5/16-C6-	UNC 5/16-18	0.313	3.543	0.748	1.378	0.313	0.238	0.380	5	
	TC410.UNC3/8-C6-	UNC 3/8-16	0.375	3.937	0.748	1.535	0.375	0.286	0.437	5	

Order example for grade WY80AD: TC410.UNC2-C6-WY80AD

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WY80AD
	TC410.UNC7/16-L6-	UNC 7/16-14	0.438	3.937	0.866	2.862	0.438	0.242	0.406	6	
	TC410.UNC1/2-L6-	UNC 1/2-13	0.500	4.331	0.945	3.224	0.500	0.275	0.437	6	
	TC410.UNC9/16-L6-	UNC 9/16-12	0.563	4.331	1.024	3.161	0.563	0.322	0.500	6	
	TC410.UNC5/8-L6-	UNC 5/8-11	0.625	4.331	1.102	2.587	0.625	0.360	0.563	6	
	TC410.UNC3/4-L6-	UNC 3/4-10	0.750	4.921	1.181	3.051	0.750	0.442	0.689	7	
	TC410.UNC7/8-L6-	UNC 7/8-9	0.875	5.512	1.181	3.583	0.875	0.523	0.750	7	

Order example for grade WY80AD: TC410.UNC7/16-L6-WY80AD

**WALTER
SELECT**

●● Primary application ● Other application

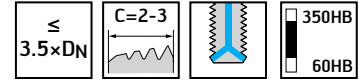
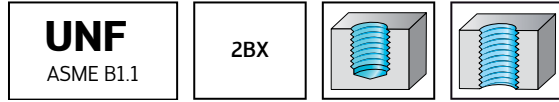
Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions

HSS-E-PM machine thread formers

TC420 Supreme inch shank



- Universal high-performance form tap
- With lubrication grooves



	P	M	K	N	S	H	O
WW60AD (TiN)	●●	●	●	●●	●		

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ h9 in	□ in	l _g in	N	WW60AD
	TC420.UNF10-C2-	UNF #10-32	0.190	2.756	0.315	0.984	0.194	0.152	0.250	5	☹
	TC420.UNF1/4-C2-	UNF 1/4-28	0.250	3.150	0.394	1.181	0.250	0.191	0.313	5	☹
	TC420.UNF5/16-C2-	UNF 5/16-24	0.313	3.543	0.472	1.378	0.313	0.238	0.380	5	☹
	TC420.UNF3/8-C2-	UNF 3/8-24	0.375	3.937	0.472	1.535	0.375	0.286	0.437	5	☹

Order example for grade WW60AD: TC420.UNF1/4-C2-WW60AD

DIN/ANSI	Designation	D _N -P	D _N in	l ₁ in	L _c in	l ₃ in	d ₁ in	□ in	l _g in	N	WW60AD
	TC420.UNF7/16-L2-	UNF 7/16-20	0.437	3.937	0.591	2.862	0.323	0.242	0.406	6	☹
	TC420.UNF1/2-L2-	UNF 1/2-20	0.500	3.937	0.591	2.831	0.367	0.275	0.437	6	☹
	TC420.UNF9/16-L2-	UNF 9/16-18	0.562	3.937	0.591	2.768	0.429	0.322	0.500	6	☹
	TC420.UNF3/4-L2-	UNF 3/4-16	0.750	4.331	0.669	2.461	0.590	0.442	0.689	7	☹

Order example for grade WW60AD: TC420.UNF7/16-L2-WW60AD

C4

WALTER SELECT

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = ☹ machining conditions

HSS-E machine thread formers

TC410 Advance inch shank

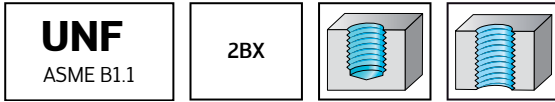


- Universal form tap
- With lubrication grooves

$\leq 3.5 \times D_N$

$C=2-3$

350HB
60HB



	P	M	K	N	S	H	O
WY80AD (TiN)	●●	●●	●	●●	●		

DIN/ANSI		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80AD
		TC410.UNF0-C6-	UNF 0-80	0.060	1.575	0.217	0.256	0.060	0.110	0.190	3	
		TC410.UNF1-C6-	UNF 1-72	0.073	1.772	0.276	0.354	0.073	0.110	0.190	3	
		TC410.UNF6-C6-	UNF 6-40	0.138	2.205	0.512	0.787	0.138	0.110	0.190	4	
		TC410.UNF8-C6-	UNF 8-36	0.164	2.480	0.591	0.984	0.164	0.131	0.250	5	
		TC410.UNF10-C6-	UNF 10-32	0.190	2.756	0.709	0.984	0.190	0.152	0.250	5	
		TC410.UNF1/4-C6-	UNF 1/4-28	0.250	3.150	0.630	1.181	0.250	0.191	0.313	5	
		TC410.UNF5/16-C6-	UNF 5/16-24	0.313	3.543	0.748	1.378	0.313	0.238	0.380	5	
		TC410.UNF3/8-C6-	UNF 3/8-24	0.375	3.937	0.748	1.535	0.375	0.286	0.437	5	

Order example for grade WY80AD: TC410.UNF0-C6-WY80AD

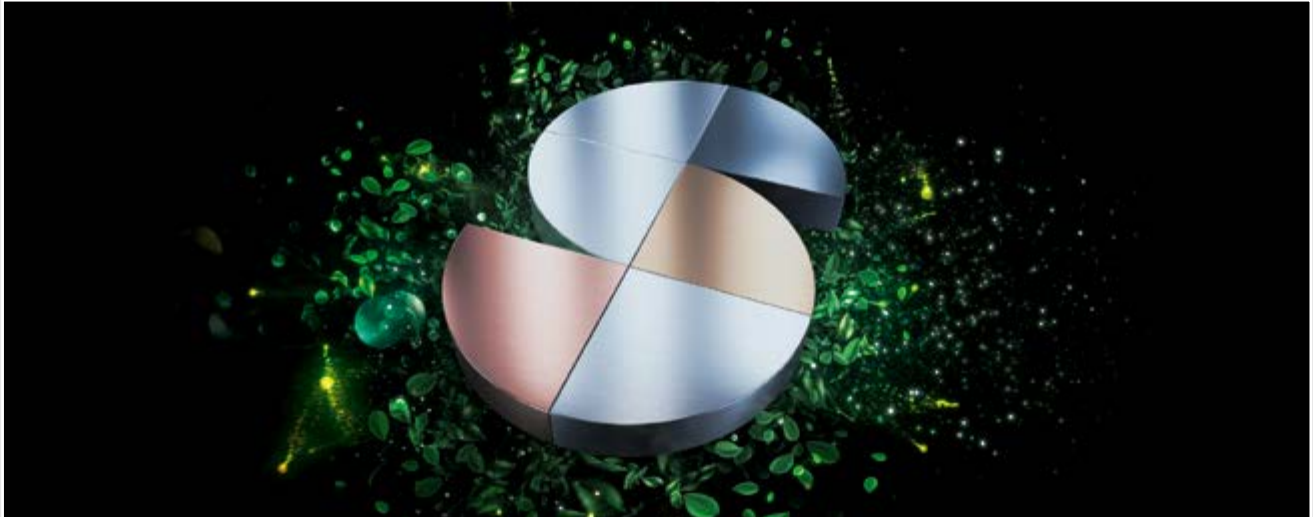
DIN/ANSI		Designation	D_N -P	D_N in	l_1 in	L_c in	l_3 in	d_1 h9 in	\square in	l_g in	N	WY80AD
		TC410.UNF7/16-L6-	UNF 7/16-20	0.438	3.937	0.866	2.862	0.438	0.242	0.406	6	
		TC410.UNF1/2-L6-	UNF 1/2-20	0.500	3.937	0.945	2.831	0.500	0.275	0.437	6	
		TC410.UNF9/16-L6-	UNF 9/16-18	0.563	3.937	1.024	2.768	0.563	0.322	0.500	6	
		TC410.UNF5/8-L6-	UNF 5/8-18	0.625	3.937	1.102	2.193	0.625	0.360	0.563	6	
		TC410.UNF3/4-L6-	UNF 3/4-16	0.750	4.331	1.181	2.461	0.750	0.442	0.689	7	
		TC410.UNF7/8-L6-	UNF 7/8-14	0.875	4.921	1.260	2.992	0.875	0.523	0.750	7	

Order example for grade WY80AD: TC410.UNF7/16-L6-WY80AD

**WALTER
SELECT**

●● Primary application ● Other application

Best tool for → Good = 😊 → Average = 😐 → Poor = 😞 machining conditions



Sustainable products and services – certified and transparent

Walter is a company that takes responsibility for people and the environment. Sustainability is a central component of our corporate strategy. It pervades our products and business divisions and is reviewed and certified by independent third parties on a regular basis.

Proven to be produced to high standards

All processes, procedures, methods and instruments that we use are checked and certified by an independent body according to strict criteria. Occupational health and safety, quality assurance and environmentally friendly actions (e.g. through CO₂ compensation of our energy use) are examples of this. Our social commitment shows that Walter has a broader definition of responsibility.

Transparency throughout the entire process chain – for your peace of mind

The integrated management system at Walter includes the sustainable use of resources and production equipment as well as of people – our customers, partners and employees. So that you can count on all of our products meeting these requirements throughout the entire process chain, we apply our own benchmarks to our suppliers too.

Certification

The integrated management system at Walter includes certification in accordance with:

- ISO 9001 (Quality management)
- ISO 14001 (Environmental management)
- ISO 45001 (Occupational health and safety management)
- ISO 50001 (Energy management)
- Certified according to Ecovadis Gold Standard and NQC rating



You can find more information on Walter certification here:



Occupational health and safety

Walter protects its employees against health hazards. To prevent accidents, we continuously review our processes and take proactive measures as a precaution.



Environmental and energy management

Environmental protection is an important company objective for Walter. We use energy efficiently and deploy practical methods to sustainably reduce the consumption of energy, water and resources.



Quality management

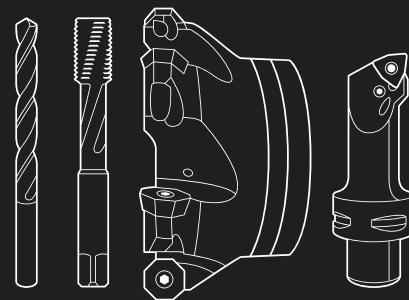
Walter is continuously improving its products and processes. We ensure our product quality using effective measures and procedures – and check it on a regular basis with our comprehensive quality management system.

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