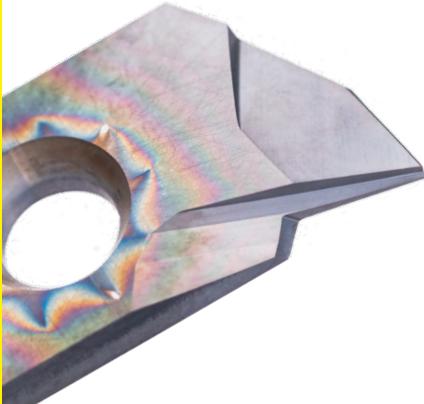


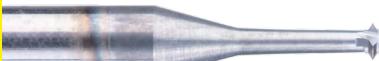
WhizzCut®



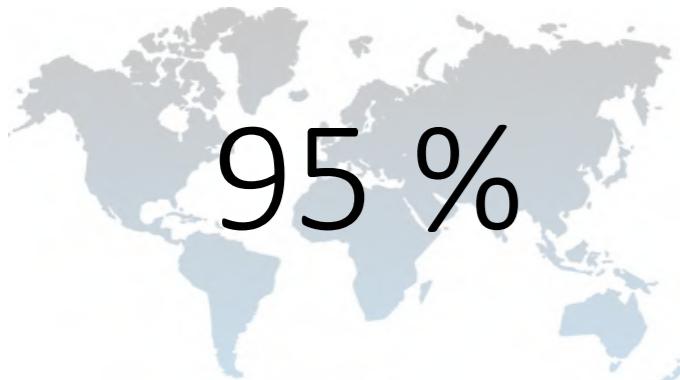
NEW!
INTERACTIVE PDF

Click on the underlined text

SMART SOLUTIONS
on the cutting edge



The story of WhizCut



... of WhizCut products are exported to countries all over the world. Swiss lathes produce precision parts for most industries around the globe.

Hej och välkommen!

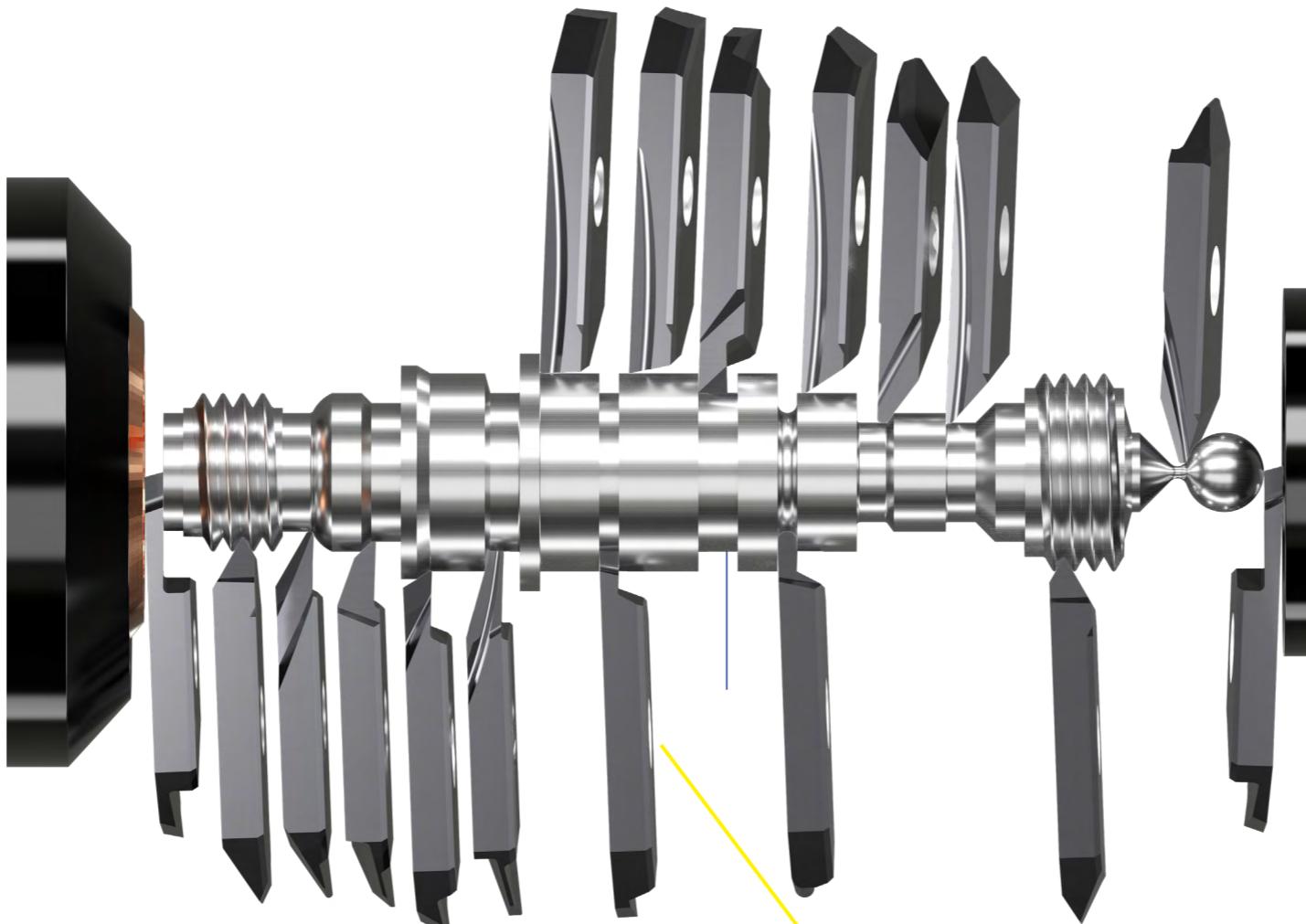
At WhizCut we say "hello and welcome". Our head office is based in Helsingborg in the south of Sweden and we also operate our business from subsidiaries in Port Washington, Wisconsin, USA – Saraburi, Thailand and Hong Kong.

WhizCut manufactures precision cutting tools specially developed for CNC swiss automatic lathes – and deliver to all corners of the world.

The end users of our premium products are leading, often global companies mostly within these areas:

- Medical devices
- Watchmaking
- Electronics and telecommunication
- Automotive and aerospace

We aim for close, long-term and productive collaborations with our customers. We are often chosen when there is need for complex solutions and cutting-edge technical innovations.



Committed to quality – committed to customers

WhizCut has always taken pride in manufacturing and delivering top quality tooling, around the world. All WhizCut inserts and toolholders are thoroughly examined in top of the range measuring microscopes.

Every single cutting edge is checked at 60 to 150 times enlargement before being packed in transport safe packaging.

Fast shipment and reliable deliveries are also a major factor in the quality of our products. For this reason we always make sure that our products arrive to their destination on time.

We believe that the extensive quality work, through the entire production process, makes WhizCut-tools among the highest quality products on the market.

All applications made in a Swiss machine – with only two types of holders.

Erik Schmidt
Founder of WhizCut



Like a kid in a machine shop

The year is 1946. In a suburb of the Danish capital of Copenhagen Erik Schmidt, 3 years old, is listening to the well known sound of the lathes while helping his father producing lighters. This is where the story of WhizCut actually begins. Where the rhythm of the lathes became as natural as the rhythm of Erik's heart beats.

Several school years later, ten thousands of geometry calculations later Erik Schmidt invented the WhizFix toolholder system. WhizCut was founded in 1996, in Sweden. To this day Erik still develops new products and inventions for WhizCut, he is the designer behind the original patents and he is a well known name within the metal cutting industry: Inventing smart tooling solutions on the cutting edge.

Chris Schmidt
MD of WhizCut



The tomorrow of the industry

The rhythm of the band driven lathes is still heard within the Schmidt family – even if the well known sound is long gone in today's modern machines. WhizCut is a leading brand of tooling for CNC automatic lathes. Eriks youngest son Chris Schmidt is Managing director, and he is committed to brighten the future of the metal cutting industry, locally, nationally and worldwide.

As chairman of SKTC – Skärteknikcentrum Sverige, Chris Schmidt is engaged in issues regarding competence, education, validation, competitiveness and growth of the industry. He is dedicated to making the metal cutting industry, *our industry*, stronger and smarter.

Contents

<u>The story of WhizCut</u>	2
<u>Contents</u>	4
<u>News</u>	5
<u>Signature toolholders</u>	6
<u>Grades of carbide</u>	7
WhizCut	8
<u>Technical information</u>	10
<u>J-type tooling</u>	11
<u>J-type inserts</u>	12
<u>J-type toolholders</u>	16
<u>K-type tooling</u>	18
<u>K-type inserts, threading/grooving</u>	19
<u>K-type inserts, backturning</u>	20
<u>K-type inserts, parting off</u>	22
<u>K-type toolholders</u>	24
WhizThread	28
<u>Technical information</u>	30
<u>Inserts: ISO, UN</u>	31
<u>Inserts: pipe threads, V-type</u>	32
<u>Inserts: TR, ACME, stub ACME, full profile</u>	33
<u>Toolholders</u>	34
WhizGroove	36
<u>Technical information, inserts</u>	38
<u>Toolholders</u>	40
WhizTwin	42
<u>Technical information</u>	44
<u>Inserts</u>	46
<u>Toolholders</u>	47

WhizAdjust	48
<u>Technical information</u>	50
<u>Toolholders</u>	51
WhizIn	52
<u>Technical information</u>	54
<u>Boring bars</u>	55
<u>Toolholders</u>	57
WhizThrill	58
<u>Technical information</u>	60
<u>Micro thread mills</u>	62
<u>Micro thread mills: full form</u>	63
<u>Thread mills: deburring</u>	64
WhizDrill	68
<u>Technical information</u>	70
<u>Drill bits</u>	72
WhizHip	74
<u>Technical information</u>	76
<u>Premium Octo, Octo hoses</u>	77
<u>Octo nozzles, couplings</u>	78
<u>Octo adapters, connectors</u>	79
<u>Octo manifolds, inlets</u>	80
<u>Mini hoses, couplings, adapters, connectors</u>	81
<u>Recommended cutting data</u>	82

News



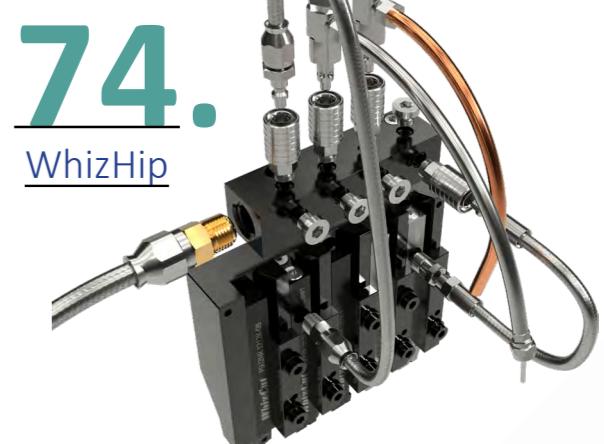
42.
WhizTwin

Power up your parting off with the new patent pending line: WhizTwin. It is a twin-edged parting off insert that helps reduce waste material and has a cutting edge stability. The strength and stability is maximized with two cutting edges at the front.



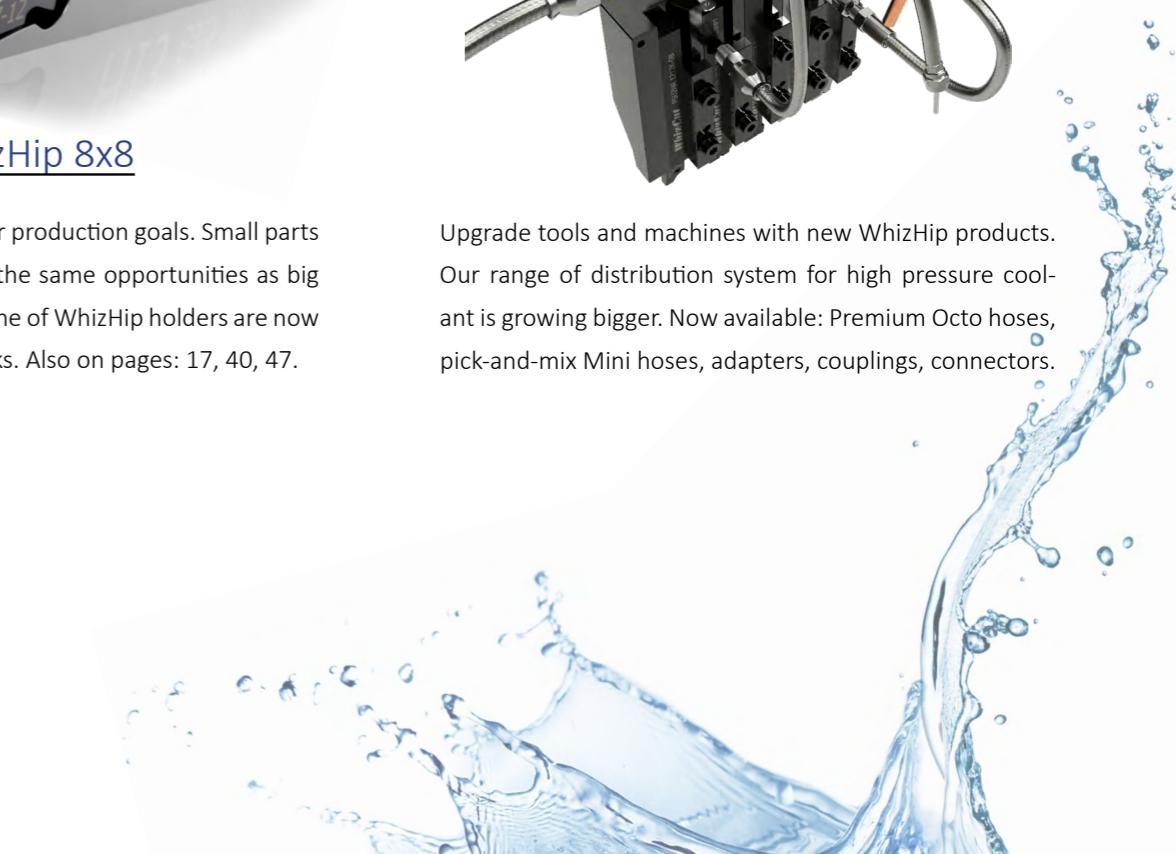
34. • WhizHip 8x8

Think small and reach bigger production goals. Small parts in small machines deserve the same opportunities as big parts in big machines. The line of WhizHip holders are now available in 8x8 mm shanks. Also on pages: 17, 40, 47.



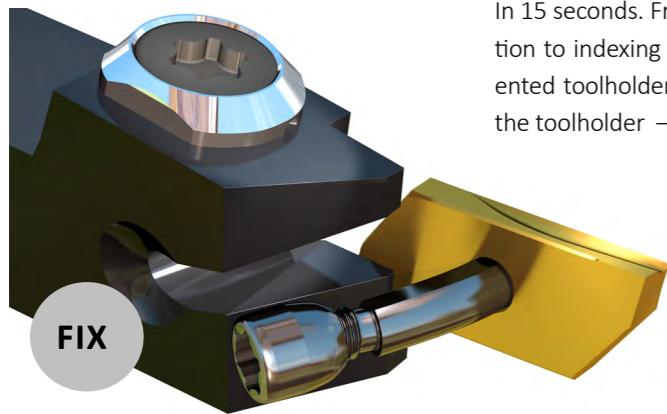
74.
WhizHip

Upgrade tools and machines with new WhizHip products. Our range of distribution system for high pressure coolant is growing bigger. Now available: Premium Octo hoses, pick-and-mix Mini hoses, adapters, couplings, connectors.



Signature toolholders

WhizFix



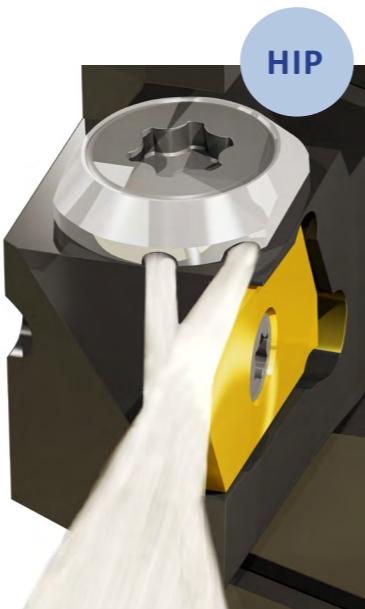
In 15 seconds. From the opposite side. Still in the machine. That is the solution to indexing problems in Swiss type automatics. With the WhizFix patented toolholder you can easily index the insert from the opposite side of the toolholder – with the holder still in the machine.

- Easy access with a stable torx fitting.
- Indexing or changing an insert will not change the setting, resulting in a much faster return to full production.
- There is no risk of damaging the new cutting edge.

Page: 16, 24, 26, 34, 40

WhizHip

Cool it with high pressure, exactly where you want it. The high pressure coolant is led through the WhizHip toolholders and exits very close, at an optimal angle between the cutting edge and chip. The insert cools down, the chips are broken off and tool life is improved.



- Use the WhizHip toolholder and there is no need to invest in a special gang-plate.
- Combine WhizHip with WhizFix to minimize setup time and index in the machine.
- The WhizHip toolholder gives a positive effect on performance from 10 bar. Normal use is around 100 bar, however WhizHip can handle up to 300 bar.
- High pressure coolant drastically improves performance when working in titanium and other difficult-to-machine-materials.

Page: 17, 26, 34, 40, 47, 57

WhizAdjust

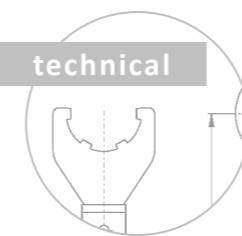


Working against the sub-spindle? With need of precision adjustment of centre height in lathes with no Y-axis? It is actually doable. With the patented adjustable toolholder system WhizAdjust – with an adjustment precision of 0,005 mm and steps of 0,02 mm.

- Easy & fast adjusting of the centre height, one-screw-release to loosen the insert head for adjustments.
- Most stable adjustable system around. Maximum clamp area and high cutting force absorption, as the head and body is clamped together in a 60 degree angle.
- Fits all WhizCut inserts, the adjustable toolholder comes in several different versions.

Page: 16, 25, 35, 41, 51

Grades of carbide



WhizCut inserts are made of an extra fine and sub-micron grain carbide with a hardness over 1750 Hv, a high fracture strength and even grain size.

WhizCut round tools are made of a sub-micron grain carbide with a hardness over 1610 Hv and a medium cobalt content. The grain size is remarkably even, resulting in a supreme fracture strength.

Stock standard carbide grades

for external inserts — including external threading

7M, 8, 9, 10	Uncoated grade covering ISO groups K10-K30 and M10-M20.
C8, 9, 10	The classic TiN coated grade covering ISO groups K05-K20, M05-M20 and P05-P10. Not a stock standard. Will be replaced by F8 and B8.
<i>New!</i> F7, 8, 9, 10	New improved AlTiN coated grade with high heat and thermal shock resistance. Great for machining stainless steel.
<i>New!</i> B7, 8, 9, 10	AlCrN coating with extra edge sharpness. A versatile grade which can be used for most materials. Extra benefits in titanium and exotic materials.
NF8, 9, 10	New improved slightly honed AlTiN coated grade with high heat and thermal shock resistance. Great for machining steel and large stainless steel parts.
<i>New!</i> ND7, 8, 9, 10	AlCrN coated grade with a slightly honed cutting edge. Perfect for all steels, and tough exotics and larger parts.
A9	TiAlCN overall strong grade with low friction. Suitable for thread milling.
P9, 10	An extra smooth AlTiN coating suitable for all drill applications as well as boring in sticky materials.
<i>New!</i> T7	A diamond like coating (DLC) with a superb surface finish and hardness. Excellent for aluminium.

Stock status

- | | |
|---|---|
| A | ER Stock standard, EL Stock standard. |
| B | ER Stock standard, EL Against inquiry. |
| C | EL Stock standard, ER Against inquiry. |
| R | ER Stock standard only. |
| L | EL Stock standard only. |
| K | Standard price, not a stock standard. |
| E | Stock standard neutral insert. |
| F | Stock standard neutral insert, right hand geometry. |
| - | Not available. |

Insert sizes

Insert type	L	T
J11, K11	11	2,5
H13, T13, U2	13	2,2
J15, K15	15	2,1
J20ER, K20ER	20	3,5

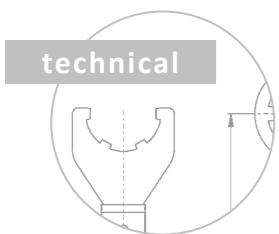
EXTERNAL INSERTS & TOOLHOLDERS



WhizCut

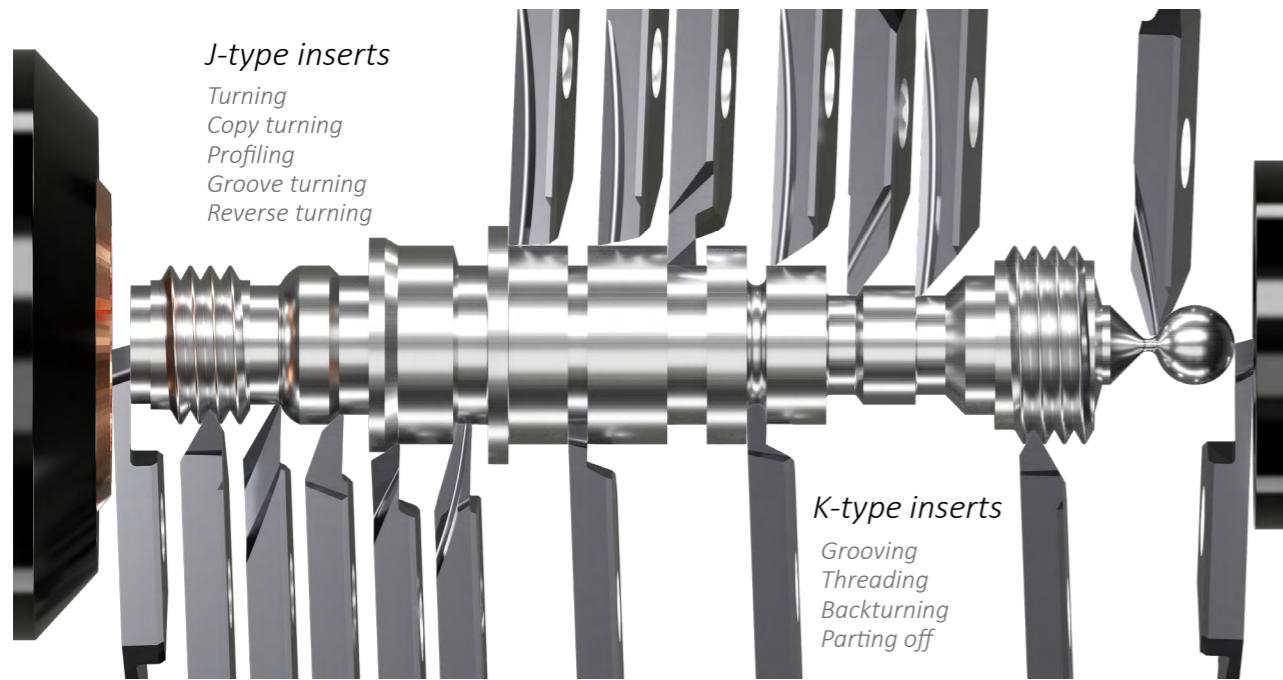
Innovative indexing and high performing inserts. This is how you improve CNC swiss type automatic lathes. WhizCut has tangentially mounted inserts which are ingeniously set at an angle in the toolholder. This gives you the best possible tool life, tight tolerances and smooth surface finish.





WhizCut - fully ground cutting edges

WhizCut standard inserts all have sharp, fully ground cutting edges. Standard inserts are available between 2° and 20° positive cutting rake – to perform outstanding in every operation. Thanks to this inventive combination WhizCut inserts are up for any material or application challenge.



Range benefits

- Perfect chip control and minimal cutting forces:** all WhizCut inserts have complex cutting geometries and sharp, fully ground cutting edges. The entire range of inserts is designed to generate ultimate stability.
- Flexible:** WhizCut has a great assortment of inserts specially designed to fit all Swiss type applications.
- Save time:** with the toolholder system WhizFix, you can index the insert with the toolholder still in the machine. Change or turn the insert around in only 15 seconds. Read more on page 6.
- High pressure coolant:** through the toolholders - is available for the full line of WhizCut inserts. Excellent to combine with WhizHip couplings and hoses.

2 holders
- all applications

You only need two types of toolholders to perform any operation with a WhizCut insert: J-type toolholders and K-type toolholders. The inserts are divided into two different application styles; "radial turning" and "front turning". The toolholders for radial turning and front turning are optimized for their targeted application.

Perfect fit with WhizCut signature toolholders:

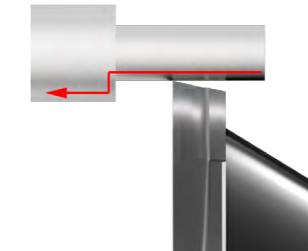


J-type inserts and toolholders

A perfect combination of cutting rakes, shapes, corner executions, chip control and grades. WhizCut has designed a diverse range of J-type inserts so you can find the ideal insert right here.

Front turning

The J-type insert is tilted in the toolholder to give the best clearance and superb stability in the tooling.



Turning direction



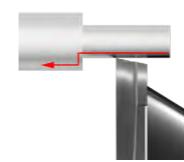
Resulting cutting force

For recommended cutting data J-type insert please see page 82.

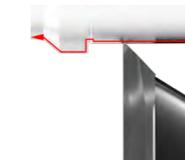
WhizGuide select the ideal insert

1. Axial relief vs. component possibilities

- 3° Gives a stronger tool and smoother finish.
- 12° Gives a strong tool and good finish.
- 33° Medium strong tool, wiper good for smooth finish.
- 48-53° Less strong tool, for smooth finish.



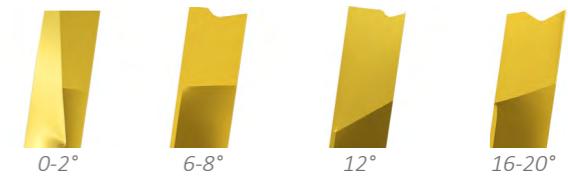
Small axial relief
- stronger tool



Large axial relief
- weaker tool

3. Cutting rake vs. material

- 0-2° for short-chipping materials.
- 6-8° for harder long-chipping materials.
- 12° for long-chipping materials.
- 16-20° for sticky long-chipping materials.
- P-line, when low cutting pressure is needed, aggressive cutting rakes gives less edge build up. Stainless, exotics and steel.

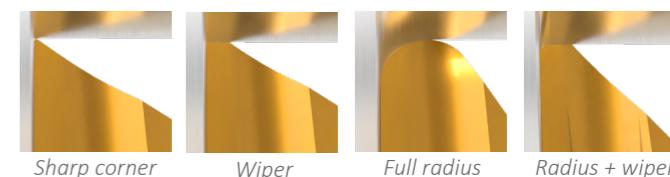


2. Chip control

- Style H = Long chips and/or high feed rate.
- Style J = Long chips and/or highest feed rate.
- Style D, N & V = Short chips &/or low to mod. feed rate.
- Style M = Short chips and/or low to moderate feed rate.
- P-line = Long chips and/or low to moderate feed rate.

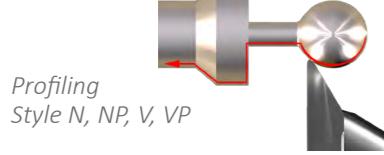
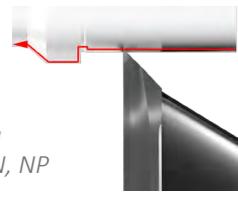
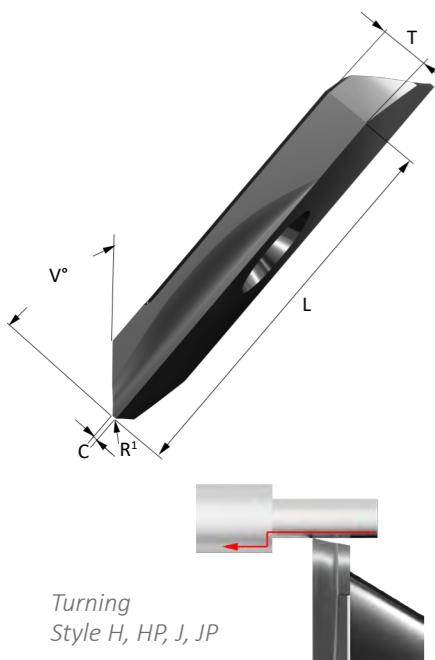
4. Corner alternatives

- Sharp corner = Min. cutting force - component is weak.
- Wiper = For higher feed rates - better surface finish.
- Radius = Stronger tool, also on request of component.
- Wiper and radius = For higher feed-rate - better surface.



J-type

Style H, J, D, N, V | Inserts for turning, copy turning

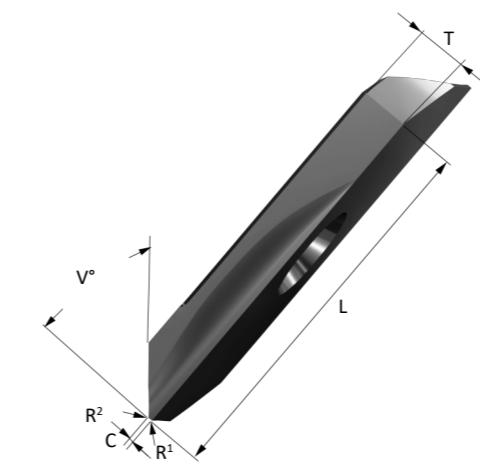
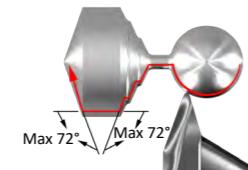
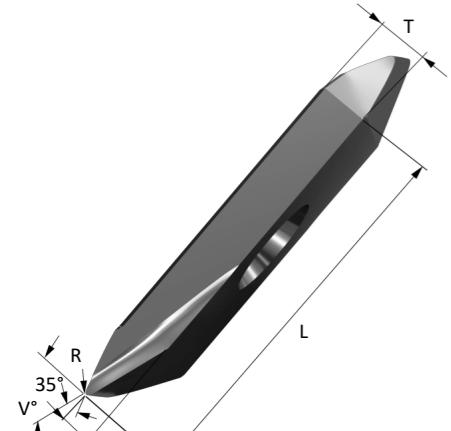


New!

INSERTS	L	V°	R	C	C. RAKE°	STOCK				PRICE	
						8M	C8	F8	B8		
J15ER H6-0	15	3	0	0	6	R	K	R	R	-	A3
J15ER H6-05	15	3	0,05	0	6	R	K	R	R	-	A4
J15ER H6-2	15	3	0,2	0	6	R	K	R	R	-	A4
J15ER H16-0	15	3	0	0	16	R	K	R	R	-	A3
J15ER H16-1	15	3	0,1	0	16	R	K	R	R	-	A4
J15ER H16-2	15	3	0,2	0	16	R	K	R	R	-	A4
J11ER/L J8-0	11	12	0	0	8	A	K	A	A	-	A3
J11ER/L J8-2	11	12	0,2	0	8	A	K	A	A	R	A4
J11ER/L J20-0	11	12	0	0	20	A	K	A	A	-	A3
J11ER/L J20-05	11	12	0,05	0	20	A	K	A	A	-	A4
J11ER/L J20-2	11	12	0,2	0	20	A	K	A	A	-	A4
J15ER/L J8-0	15	12	0	0	8	A	K	B	B	R	A3
J15ER/L J8-1	15	12	0,1	0	8	A	K	B	B	R	A4
J15ER/L J8-2	15	12	0,2	0	8	A	K	B	B	R	A4
J15ER/L J20-0	15	12	0	0	20	A	K	B	B	-	A3
J15ER/L J20-1	15	12	0,1	0	20	A	K	B	B	-	A4
J15ER/L J20-2	15	12	0,2	0	20	A	K	B	B	-	A4
J20ER J8-2	20	12	0,2	0	8	R	K	R	R	R	A21
J20ER J8-4	20	12	0,4	0	8	R	K	R	R	R	A21
J20ER J20-2	20	12	0,2	0	20	R	K	R	R	R	A23
J20ER J20-4	20	12	0,4	0	20	R	K	R	R	R	A23
J11ER/L D2-0	11	33	0,02	0	2	A	K	A	A	-	A5
J11ER/L D2-0-1	11	33	0	0,12	2	A	K	A	A	-	A5
J11ER/L D12-0	11	33	0,02	0	12	A	K	A	A	-	A5
J11ER/L D12-05	11	33	0,05	0	12	A	K	A	A	-	A5
J11ER/L D12-0-1	11	33	0	0,12	12	A	K	A	A	-	A5
J15ER/L D2-0	15	33	0,02	0	2	B	K	B	B	-	A5
J15ER/L D2-0-2	15	33	0	0,2	2	B	K	B	B	-	A5
J15ER/L D12-0	15	33	0,02	0	12	B	K	B	B	-	A5
J15ER/D16-1	15	33	0,1	0	16	R	K	R	R	-	A5
J15ER/L D12-0-2	15	33	0	0,2	12	B	K	B	B	-	A5
J15ER/L D12-1-3	15	33	0,15	0,3	12	B	K	B	B	R	A6
J20ER D2-2-5	20	33	0,2	0,5	2	R	K	R	R	R	A23
J20ER D2-2-5	20	33	0,2	0,5	12	R	K	R	R	R	A24
J15ER/L N2-0-2	15	48	0	0,2	2	B	K	B	B	-	A6
J15ER/N2-1-3	15	48	0,1	0,3	2	R	K	R	R	-	A7
J15ER/L N12-0-2	15	48	0	0,2	12	B	K	B	B	-	A6
J15ER/N12-1-3	15	48	0,1	0,3	12	R	K	R	R	R	A7
J20ER N2-2-5	20	48	0,2	0,5	2	R	K	R	R	R	A24
J20ER N12-2-5	20	48	0,2	0,5	12	R	K	R	R	-	A25
J11ER/L V2-1	11	53	0,1	0	2	A	K	B	B	-	A6
J11ER/L V12-05	11	53	0,05	0	12	A	K	B	B	-	A7
J11ER/L V12-2	11	53	0,2	0	12	A	K	B	B	-	A7
J15ER/L V2-1	15	53	0,1	0	2	A	K	B	B	-	A6
J15ER/L V2-0-2	15	53	0	0,2	2	B	K	B	B	-	A6
J15ER/L V12-2	15	53	0,2	0	12	B	K	B	B	R	A7
J15ER/V12-4	15	53	0,4	0	12	R	K	R	R	R	A7
J15ER/V12-4-28	15	62	0,4	0	12	R	K	R	R	-	A7
J20ER V12-4	20	53	0,4	0	12	-	-	-	R	R	A7

Style M | Inserts for profile, copy turning

INSERTS	L	t	V°	R	C. RAKE°	STOCK				PRICE	
						8M	C8	F8	B8		
J15ER M12-08	15	1,3	72,5	0,08	12	R	K	R	R	-	A7
J15ER M12-2	15	1,3	72,5	0,2	12	R	K	R	R	R	A7

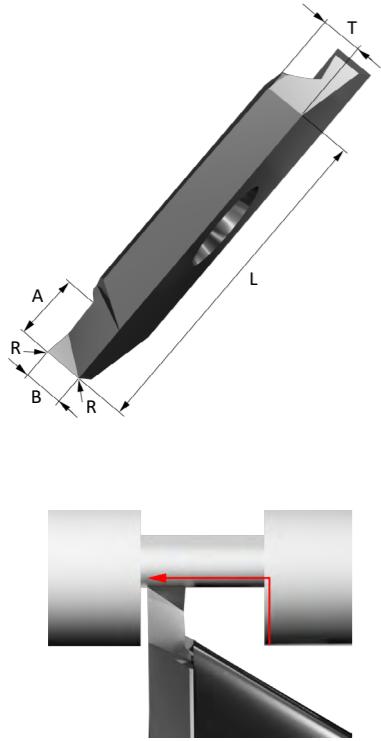


Pic. of profiling insert MP see page 12.

P-line | Inserts for turning sticky and exotic materials

INSERTS	L	V°	R¹	R²	C	STOCK				PRICE		
						Ax	RAD	8M	F8			
J11ER HP6-0	11	3	0	-	0	6	6	R	R	R	A5	
J11ER HP6-05	11	3	0,05	-	0	6	6	R	R	R	A6	
J15ER HP8-1	15	3	0,1	-	0	8	12	-	-	R	R	A5
J15ER HP8-2	15	3	0,2	-	0	8	12	-	-	R	R	A5
J15ER HP16-0	15	3	0	-	0	16	12	R	R	-	A4	
J15ER HP16-03	15	3	0,03	-	0	16	12	R	R	-	A5	
J15ER HP16-05	15	3	0,05	-	0	16	12	R	R	-	A5	
J15ER HP16-2	15	3	0,2	-	0	16	12	R	R	R	A5	
J15ER JP12-0	15	12	0	-	0	12	12	R	R	-	A4	
J15ER JP20-1	15	12	0,1	-	0	20	12	R				

J-type



Style A | Inserts for groove turning

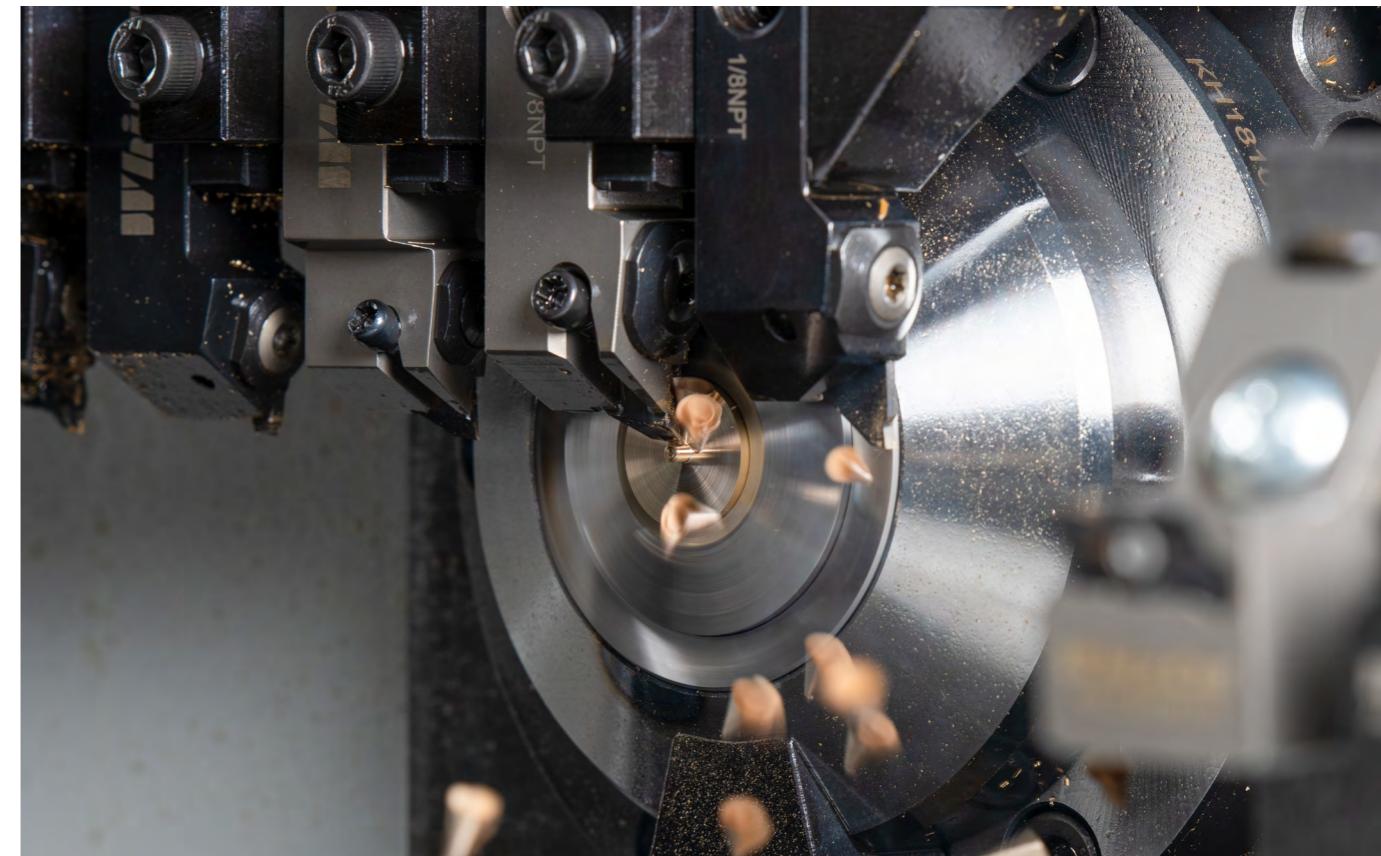
INSERTS	L	B	A	RX2	C. RAKE°	STOCK						PRICE
						8M	C8	F8	B8	NF8	ND8	
J11ER/LA0-03-0	11	0,2	0,3	0	0	A	K	B	B	-	-	A6
J11ER A0-08-0	11	0,5	0,8	0	0	R	K	R	R	-	-	A5
* J11ER/LA0-20-0	11	1,3	2	0	0	A	K	B	B	-	-	A5
* J11ER/LA12-20-0	11	1,3	2	0	12	A	K	B	B	-	-	A6
* J11ER A12-20-2	11	1,3	2	0,2	12	R	-	R	R	-	-	A7
J15ER A0-03-0	15	0,2	0,3	0	0	R	-	R	R	-	-	A5
J15ER A0-05-0	15	0,3	0,5	0	0	R	-	R	R	-	-	A6
J15ER A0-08-0	15	0,5	0,8	0	0	R	K	R	R	-	-	A5
J15ER A0-08-03	15	0,5	0,8	0,03	0	R	K	R	R	-	-	A6
J15ER A0-08-05	15	0,5	0,8	0,05	0	R	K	R	R	-	-	A6
J15ER A0-12-0	15	0,75	1,2	0	0	R	K	R	R	-	-	A5
J15ER A12-12-0	15	0,75	1,2	0	12	R	K	R	R	-	-	A6
J15ER A0-12-05	15	0,75	1,2	0,05	0	R	K	R	R	-	-	A7
J15ER A12-12-05	15	0,75	1,2	0,05	12	R	K	R	R	-	-	A7
J15ER A0-16-0	15	1	1,6	0	0	R	K	R	R	-	-	A5
J15ER A12-16-0	15	1	1,6	0	12	R	K	R	R	-	-	A6
J15ER A12-16-05	15	1	1,6	0,05	12	R	K	R	R	-	-	A7
* J15ER A0-24-0	15	1,5	2,4	0	0	R	K	R	R	R	R	A5
* J15ER/LA12-24-0	15	1,5	2,4	0	12	B	K	B	R	R	R	A6
* J15ER A12-24-08	15	1,5	2,4	0,08	12	R	K	R	R	-	-	A7
* J15ER/LA12-24-1	15	1,5	2,4	0,1	12	A	K	B	B	R	R	A7
** J15ER A12-40-0	15	2	4	0	12	R	K	R	R	R	R	A7
** J15ER A12-40-1	15	2	4	0,1	12	R	K	R	R	R	R	A7
** J15ER A12-40-2	15	2	4	0,2	12	R	K	R	R	R	R	A7
J20ER A0-3-0	20	2	3	0	0	R	K	R	R	-	-	A22
** J20ER A0-5-0	20	3	5	0	0	R	K	R	R	-	-	A22
J20ER A12-3-0	20	2	3	0	12	R	K	R	R	-	-	A24
J20ER A12-3-1	20	2	3	0,1	12	R	K	R	R	R	R	A25
** J20ER A12-5-0	20	3	5	0	12	R	K	R	R	-	-	A24
** J20ER A12-5-2	20	3	5	0,2	12	R	K	R	R	R	R	A25

* New name.

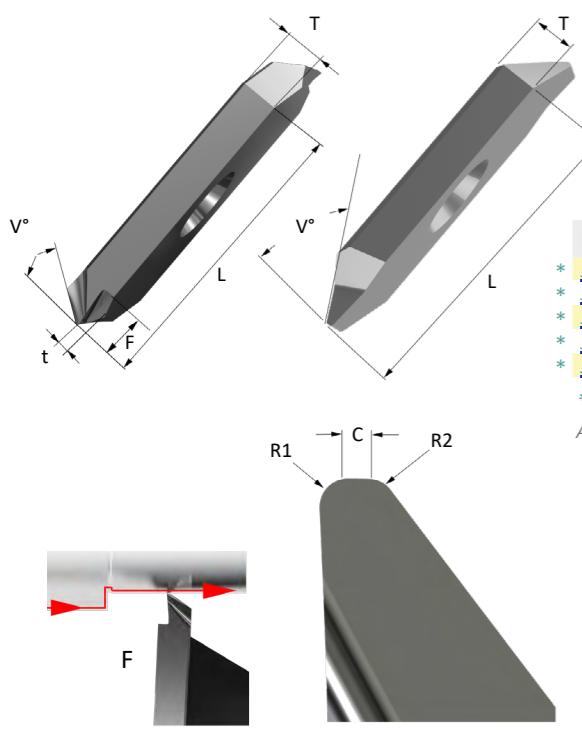
** DOC alteration of holder needed.

Benefits of groove turning

- One insert for numerous operations.
- Plunge and turn insert. With WhizCut inserts for groove turning there is no need for multiple plunging, resulting in much faster cycle times.
- Excellent for tight tolerance grooving, or grooving when several different sizes are needed.



Turning high dept of cut, 8 mm, with the signature product range WhizCut. Resulting in great chip control and excellent surface finish.



Style F | Inserts for reverse turning

INSERTS	R1	R2	C	t	F	V°	C. RAKE°	STOCK						PRICE
								8M	C8	F8	B8	NF8	ND8	
* J15ER FD16-0320	0,03	0,2	0	0,6	3	33	16	R	K	R	K	-	-	A8
* J15ER FD16-0520	0,05	0,2	0	0,6	3	33	16	R	K	R	K	-	-	A8
* J15ER FN8-0520C	0,05	0,2	0,05	0	-	48	8	K	-	K	K	-	-	A8
* J15ER FN8-1020C	0,1	0,2	0,03	0	-	48	8	K	-	K	K	-	-	A8
* J15ER FN20-1818C	0,18	0,18	0,03	0	-	48	20	R	-	R	R	-	-	A8

* New name.

At t=0 Max plunge F is 15 mm.

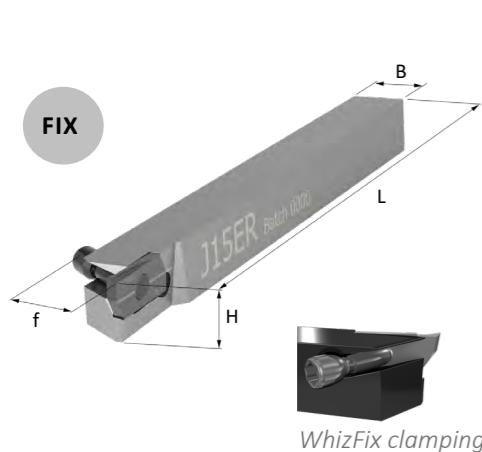
Benefits of reverse turning

- Higher feed with an improved surface finish.
- Clears burrs on sharp corners.
- Corner radius protected when turning.
- Increased tool life.
- Angled cutting edge gives smoother cutting.

YOUR NOTES

J-type

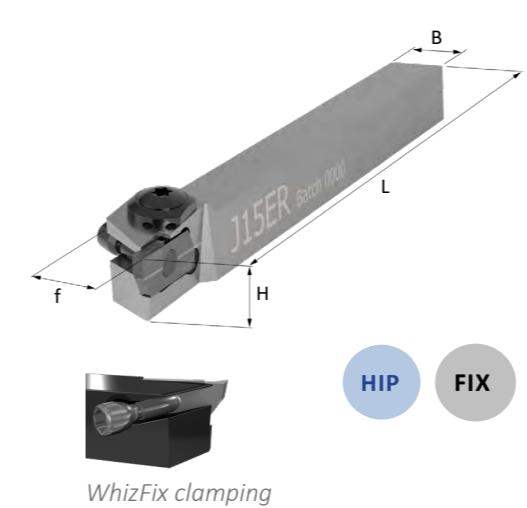
WPJ | Toolholders with WhizFix pin type clamping



TOOLHOLDER	H	B	L	f	INSERT	PIN	BIT	STOCK	PRICE
WPJ11ER/L 88K-8T	8	8	125	8	J11ER/L	PIN 8	T15	A	A62
WPJ11ER/L 1010K-8T	10	10	125	10	J11ER/L	PIN 8	T15	A	A62
WPJ15ER/L 1010K-8T	10	10	125	10	J15ER/L	PIN 12	T20	A	A62
WPJ15ER 1212F-8T	12	12	85	12	J15ER	PIN 12	T20	R	A61
WPJ15ER/L 1212K-8T	12	12	125	12	J15ER/L	PIN 12	T20	A	A62
WPJ15ER 0500K-8T	1/2"	1/2"	125	1/2"	J15ER	PIN 12	T20	R	A62
WPJ15ER/L 1616K-8T	16	16	125	16	J15ER/L	PIN 12	T20	A	A63
WPJ20ER 1212K-8T	12	12	125	12	J20ER	PIN 16	T25	R	A62
WPJ20ER 0500K-8T	1/2"	1/2"	125	1/2"	J20ER	PIN 16	T25	R	A62
WPJ20ER 1616K-8T	16	16	125	16	J20ER	PIN 16	T25	R	A63
WPJ20ER 2020K-8T	20	20	125	20	J20ER	PIN 16	T25	R	A64

J-type

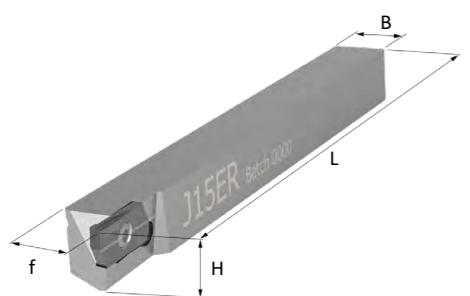
WPJ | Pin-type WhizHip toolholders



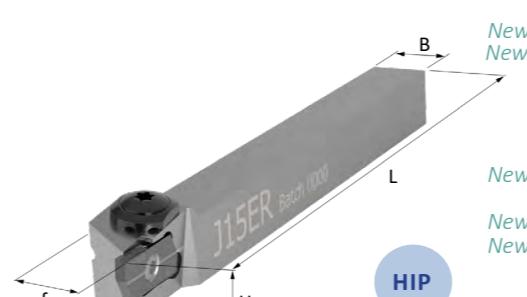
TOOLHOLDER	H	B	L	f	INSERT	PLUG	PIN	BIT	STOCK	PRICE
WPJ15ER 1010K-8C	10	10	125	10	J15ER	M8X1	PIN 12	T20	R	A82
WPJ15ER 1010H-8C	10	10	100	10	J15ER	M8X1	PIN 12	T20	R	A82
WPJ15ER 1212K-8C	12	12	125	12	J15ER	1/8" NPT	PIN 12	T20	R	A82
WPJ15ER 0500K-8C	1/2"	1/2"	125	1/2"	J15ER	1/8" NPT	PIN 12	T20	R	A82
WPJ15ER 1616K-8C	16	16	125	16	J15ER	1/8" NPT	PIN 12	T20	R	A83
WPJ20ER 1216K-8C	12	16	125	16	J20ER	1/8" NPT	PIN 16	T25	R	A82
WPJ20ER 0516K-8C	1/2"	16	125	16	J20ER	1/8" NPT	PIN 16	T25	R	A82
WPJ20ER 1616K-8C	16	16	125	16	J20ER	1/8" NPT	PIN 16	T25	R	A83
WPJ20ER 2020K-8C	20	20	125	20	J20ER	1/8" NPT	PIN 16	T25	R	A83

For more info on WhizHip see page 76.

WSJ | Toolholders with conventional clamping



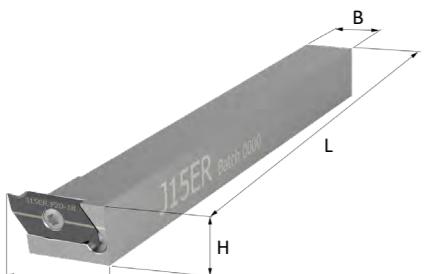
TOOLHOLDER	H	B	L	f	INSERT	SCREW	KEY	STOCK	PRICE
WSJ11ER/L 88K-8T	8	8	125	8	J11ER/L	M2,5X6	T7IP	A	A52
WSJ15ER 0810K-8T	8	10	125	10	J15ER	M3X7	T9IP	R	A52
WSJ15ER/L 1010K-8T	10	10	125	10	J15ER/L	M3X7	T9IP	A	A52
WSJ15ER/L 1212K-8T	12	12	125	12	J15ER/L	M3X7	T9IP	A	A52
WSJ15ER 0500K-8T	1/2"	1/2"	125	1/2"	J15ER	M3X7	T9IP	R	A52
WSJ15ER/L 1616K-8T	16	16	125	16	J15ER/L	M3X7	T9IP	A	A53
WSJ15ER 2020K-8T	20	20	125	20	J15ER	M3X7	T9IP	A	A54
WSJ20ER 1212K-8T	12	12	125	12	J20ER	M4X9	T15	R	A52
WSJ20ER 0500K-8T	1/2"	1/2"	125	1/2"	J20ER	M4X9	T15	R	A52
WSJ20ER 1616K-8T	16	16	125	16	J20ER	M4X9	T15	R	A53
WSJ20ER 2020K-8T	20	20	125	20	J20ER	M4X9	T15	R	A54
WSJ20ER 2525M-8T	25	25	150	25	J20ER	M4X9	T15	R	A55
WSJ20ER 1000M-8T	1"	1"	150	1"	J20ER	M4X9	T15	R	A55



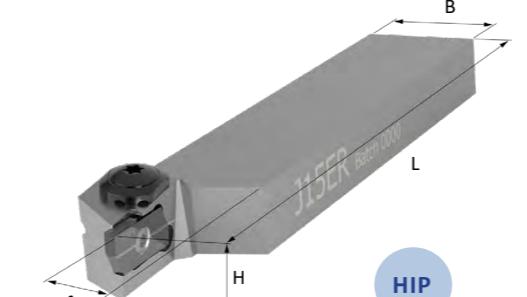
WSJ | WhizHip toolholders for high pressure coolant

TOOLHOLDER	H	B	L	f	INSERT	PLUG	SCREW	KEY	STOCK	PRICE
WSJ11ER 88H-8C	8	8	100	10	J11ER	M5X0,8	M2,5X6	T7IP	R	A73
WSJ11ER 88K-8C	8	8	125	10	J11ER	M5X0,8	M2,5X6	T7IP	R	A73
WSJ15ER 1010H-8C	10	10	100	10	J15ER	M8X1	M3X7	T9IP	R	A72
WSJ15ER 1010K-8C	10	10	125	10	J15ER	M8X1	M3X7	T9IP	R	A72
WSJ15ER 1212K-8C	12	12	125	12	J15ER	1/8" NPT	M3X7	T9IP	R	A72
WSJ15ER 0500H-8C	1/2"	1/2"	100	1/2"	J15ER	1/8" NPT	M3X7	T9IP	R	A72
WSJ15ER 1616K-8C	16	16	125	16	J15ER	1/8" NPT	M3X7	T9IP	R	A73
WSJ15ER 0750K-8C	3/4"	3/4"	125	3/4"	J15ER	1/8" NPT	M3X7	T9IP	R	A73
WSJ15ER 2020K-8C	20	20	125	20	J15ER	1/8" NPT	M3X7	T9IP	R	A74
WSJ20ER 1216K-8C	12	16	125	16	J20ER	1/8" NPT	M4X9	T15	R	A72
WSJ20ER 0516K-8C	1/2"	16	125	16	J20ER	1/8" NPT	M4X9	T15	R	A72
WSJ20ER 1616K-8C	16	16	125	16	J20ER	1/8" NPT	M4X9	T15	R	A73
WSJ20ER 2020K-8C	20	20	125	20	J20ER	1/8" NPT	M4X9	T15	R	A74
WSJ20ER 2525M-8C	25	25	150	25	J20ER	1/8" NPT	M4X9	T15	R	A74
WSJ20ER 1000M-8C	1"	1"	150	1"	J20ER	1/8" NPT	M4X9	T15	R	A74

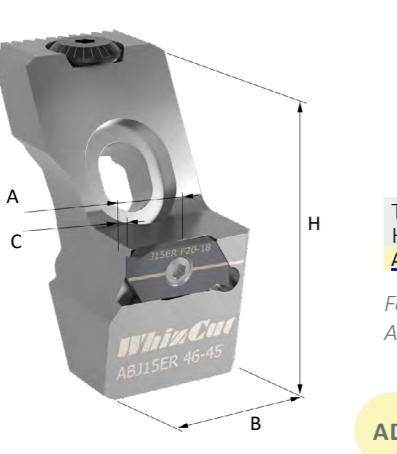
ZSJ | Square shank toolholders



TOOLHOLDER	H	B	L	W	INSERT	SCREW	KEY	STOCK	PRICE
ZSJ15ER 1212K-8T	12	12	125	20	J15ER	M3X7	T9IP	R	A72
ZSJ15ER 1616K-8T	16	16	125	24	J15ER	M3X7	T9IP	R	A73



ABJ | WhizAdjust toolholder head



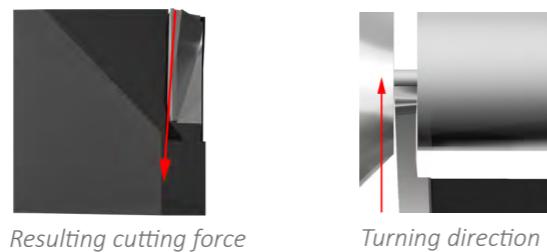
TOOLHOLDER HEAD	H	B	A	MAX DOC	MAX FEED LENGTH	INSERT TYPE	CLAMPING SCREW	KEY	STOCK	PRICE
ABJ15ER-46-45	46	24	10	2	45	J15ER	M3X7	T9IP	R	D55

For more information and shanks see WhizAdjust page 50.
A is measurement from cutting edge to centre of shank.</p

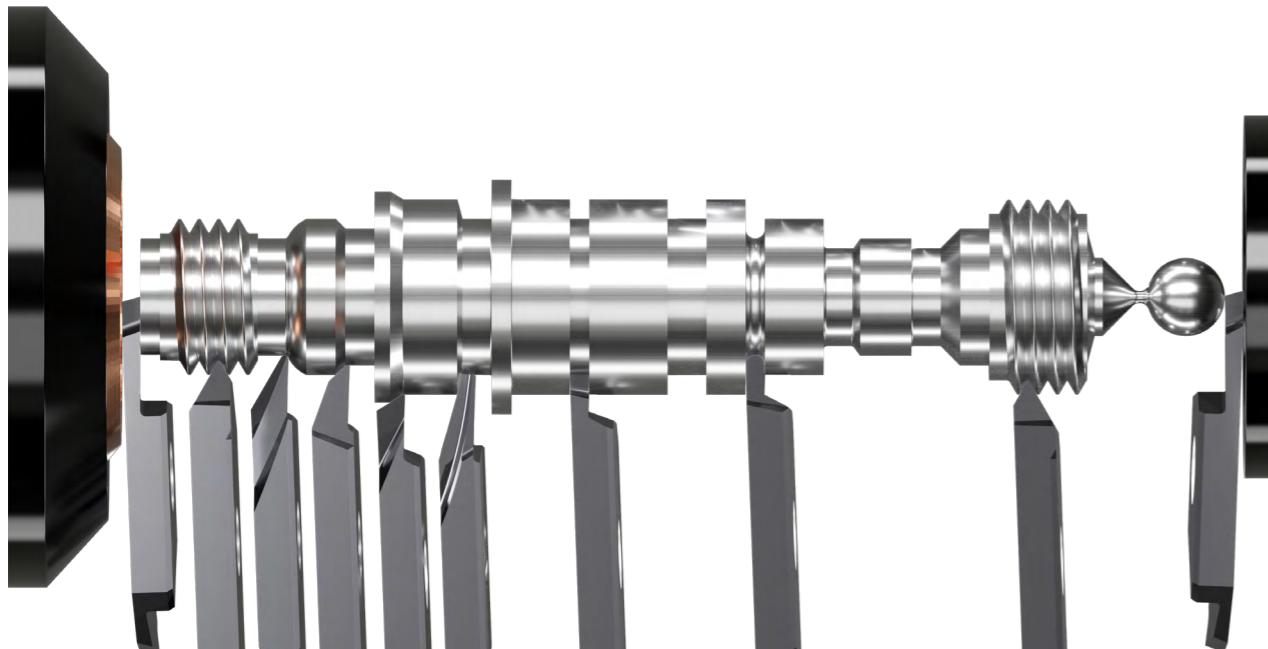
K-type inserts and toolholders

Radial turning

K-type inserts are designed for back turning, threading, grooving and parting off. WhizCut offers a wide range of inserts for these applications. The K-type insert is slightly tilted in the toolholder, to give enough clearance, while maintaining maximum stability.



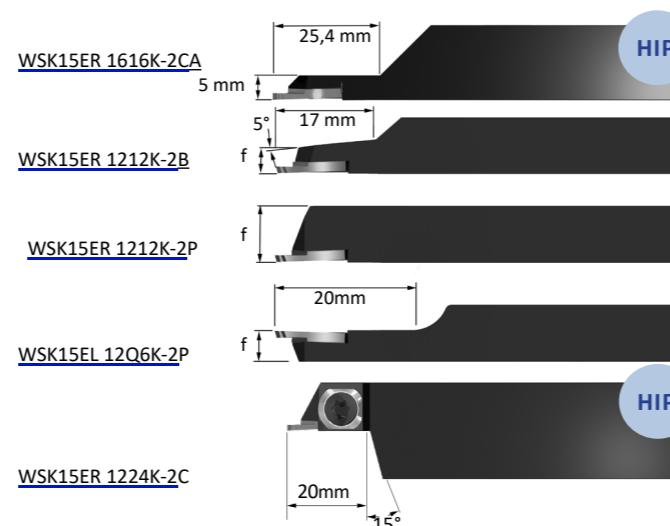
K-type inserts



K-type toolholders

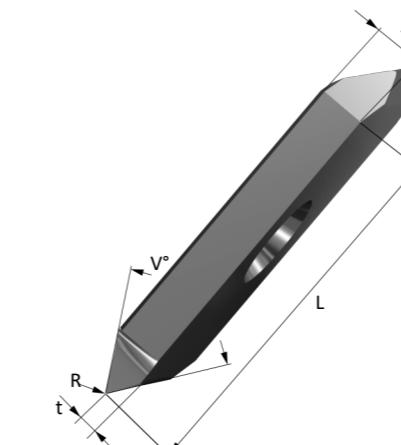
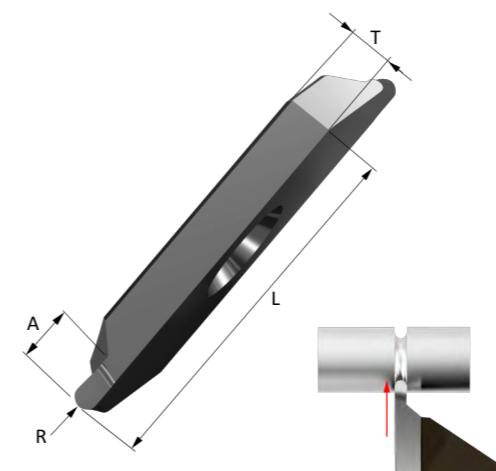
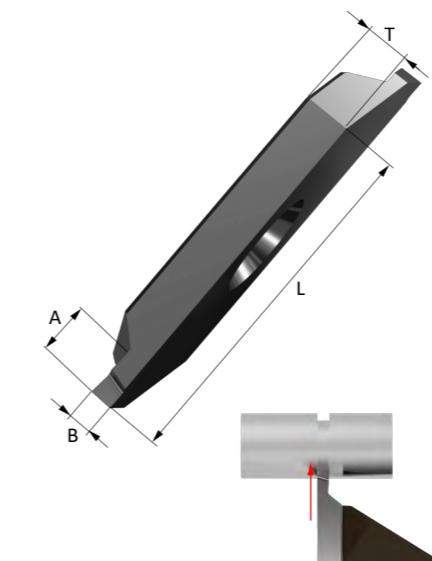
Find the right toolholder for the parting off job. WhizCut has developed a selection of toolholders for parting off:

- Regular holders.
- Narrow holders for short parts. Suitable for small diameter bars.
- Left hand holder with insert in centre, to part off against the sub spindle.
- Shifted edge holders. Can be used with an extended nose guide bushing collet.



For recommended cutting data K-type insert please see page 82.

K-type



Right hand insert shown.
All angles are shown
when mounted in toolholder.

Style G | Inserts for grooving

INSERTS	B	MAX A	*CIRCLIP	STOCK				PRICE
				8M	C8	F8	B8	
K11ER G0,5	0,5	1	0,4	R	K	R	R	A4
K11ER G0,8	0,8	1,6	0,7	R	K	R	R	A4
K11ER G1,0	1	2	0,9	R	K	R	R	A4
K15ER G0,1	0,1	0,2	-	R	K	R	R	A6
K15ER/L G0,2	0,2	0,4	-	B	K	B	B	A5
K15ER/L G0,25	0,25	0,5	-	B	K	B	B	A5
K15ER G0,3	0,3	0,6	-	R	K	R	R	A4
K15ER G0,4	0,4	0,8	-	R	K	R	R	A4
K15ER/L G0,5	0,5	1	0,4	B	K	B	B	A4
K15ER/L G0,6	0,6	1,2	0,5	B	K	B	B	A4
K15ER/L G0,7	0,7	1,4	0,6	B	K	B	B	A4
K15ER G0,75	0,75	1,5	0,6	R	K	R	R	A4
K15ER/L G0,8	0,8	1,6	0,7	B	K	B	B	A4
K15ER G0,9	0,9	1,8	0,8	R	K	R	R	A4
K15ER G0,95	0,95	1,9	0,8	R	K	R	R	A4
K15ER/L G1,0	1	2	0,9	B	K	B	B	A4
K15ER/L G1,15	1,15	2,3	1,0	B	K	B	B	A4
K15ER G1,2	1,2	2,4	1,0	R	K	R	R	A4
K15ER/L G1,35	1,35	2,7	1,2	B	K	B	B	A4
K15ER/L G1,5	1,5	3	-	B	K	B	B	A4
K15ER/L G1,65	1,65	3,3	1,5	B	K	B	B	A4
K15ER/L G1,90	1,9	3,8	1,75	B	K	B	B	A4
K15ER/L G2,05	2,05	4,1	-	B	K	B	B	A4
K20ER G2,0	2	4	-	R	K	R	R	A24
K20ER G2,5	2,5	5	-	R	K	R	R	A24
K20ER G3,0	3	6	-	R	K	R	R	A24

*According to DIN471

See page 38 for the WhizGroove full line of grooving inserts.

Style GR | Inserts for radius grooving

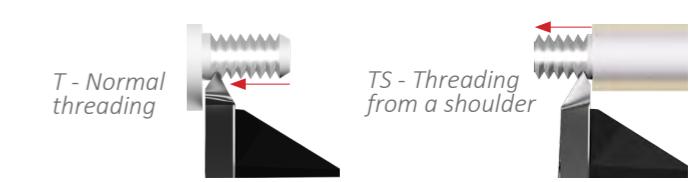
INSERTS	R	A	L	T	STOCK				PRICE
					8M	C8	F8	B8	
K15ER GRO,25	0,25	1	15	2,1	R	K	R	R	A7
K15ER GRO,5	0,5	2	15	2,1	R	K	R	R	A7
K15ER GRO,75	0,75	3	15	2,1	R	K	R	R	A7
K15ER GR1,0	1	4	15	2,1	R	K	R	R	A7
K20ER GR1,25	1,25	5	20	3,5	R	K	R	R	A27
K20ER GR1,5	1,5	6	20	3,5	R	K	R	R	A27
K20ER GR1,75	1,75	7	20	3,5	R	K	R	R	A27

See page 38 for the WhizGroove full line of grooving inserts.

Style T | Inserts for partial profile threading

INSERTS	L	V°	t	R	STOCK				PRICE
					8M	C8	F8	B8	
K11ER/L T60-5	11	60	0,5	0,03	A	K	B	B	A4
K15ER/L T55-5	15	55	0,5	0,03	B	K	B	B	A5
K15ER/L T60-5	15	60	0,5	0,03	A	K	B	B	A4
K15ER/L T60-8	15	60	0,8	0,05	A	K	B	B	A4
K15ER/L TS60-16	15	60	1,6	0,03	B	K	B	B	A5
K20ER T60-10	20	60	1	0,1	R	K	R	R	A25
K20ER T60-15	20	60	1,5	0,2	R	K	R	R	A25
K20ER TS60-25	20	60	2,5	0,1	R	K	R	R	A25

See page 30 for the WhizThread full line of threading inserts.



Backturning



Get more done – every time. WhizCut back turning inserts are unlike any inserts you have experienced before. Don't accept the hassle that comes with back turning. Eliminate problems, cut cycle times and improve quality with the help of WhizCut.

Succeed with WhizCut B style back turning insert

- 100% part roundness** - WhizCut back turning inserts give minimum radial cutting pressure.
- Flawless finish** - Exceptional chip control when the chip is curled along the chip control groove, away from the part.
- Improved tool life** - The radius is only worn during plunging process.
- Time saving** - Keeps the size longer without adjustment.
- Flexible** - Available in a wide range of unique geometries and highly suitable for small diameters.

WhizGuide select the ideal back turning insert

Style BT

Style BT inserts have a chamfer on the leading corner that improves tool-life in harder materials. This insert is suitable when the wear on the style B insert is found in an early stage.

Style VLR

Style VLR is used for back turning when a smooth surface is needed, when profiling. For example it is excellent to go in behind the head of a bone screw with it.

Style E

Style E is used for fine turning, using high cutting speed and low feed rate. This insert will give the best possible surface finish. By protecting the small radius with the larger radius the tool life is extended, compared with conventional full radius inserts.

Style C

Style C is used when there is an undercut required.

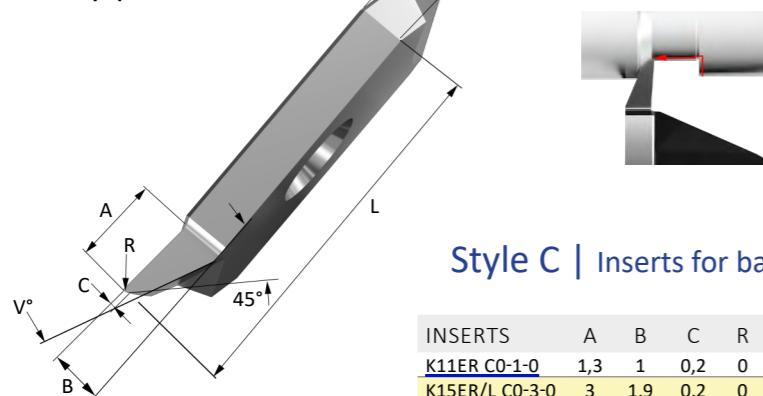
Style B

Style B is for general use in back turning applications in stainless steel and other hard and long-chipping materials where good chip control is needed.

Style BP

Style BP is used for sticky materials when there is a risk of an edge build up that can spoil the surface finish or reduce tool-life.

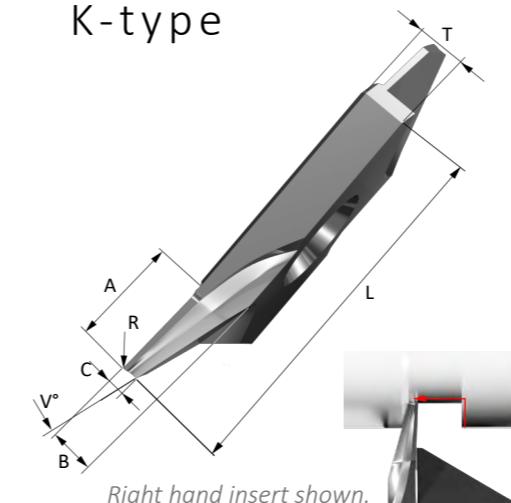
K-type



Style C | Inserts for back turning when an undercut required

INSERTS	A	B	C	R	V°	C. RAKE°	8M	C8	F8	B8	NF8	ND8	PRICE
K11ER CO-1-0	1,3	1	0,2	0	30	0	R	K	R	R	-	-	A6
K15ER/L CO-3-0	3	1,9	0,2	0	20	0	A	K	B	B	R	R	A7

K-type



All other variables are same as style B.

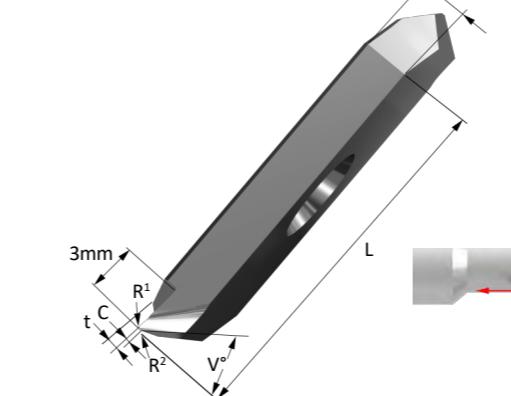
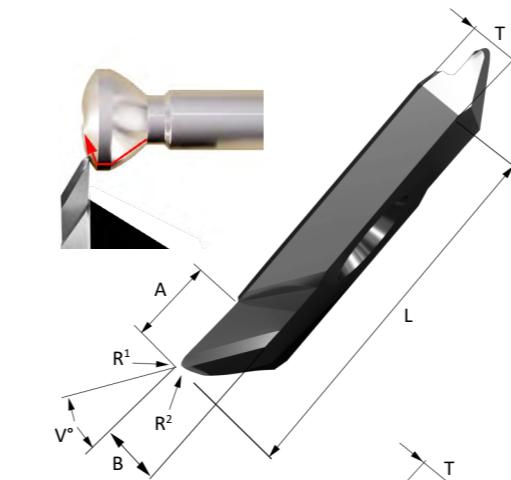
Style B | Inserts for back turning in steel and other hard and long-chipping materials

INSERTS	*A	B	C	R	V°	C. RAKE°	8M	C8	F8	B8	NF8	ND8	PRICE
K11ER/L B12-2-0	2	1	0,4	0	15	12	A	K	B	B	-	-	A8
K11ER B12-2-05	2	1	0,4	0,05	15	12	R	K	R	R	-	-	A9
K11ER/L B12-3-0	3,5	1,5	0,6	0	15	12	A	K	B	B	-	-	A8
K15ER/L B12-2-0	2,5	1,3	0,5	0	15	12	A	K	B	B	-	-	A8
K15ER/L B12-4-0	4	1,9	0,7	0	15	12	A	K	B	B	-	-	A8
K15ER/L B12-4-05	4	1,9	0,7	0,05	15	12	A	K	B	B	-	-	A9
K15ER/L B12-4-1	4	1,9	0,7	0,1	15	12	A	K	B	B	R	R	A9
K15ER/L B12-4-2	4	1,9	0,7	0,2	15	12	A	K	B	B	R	R	A9
K20ER B12-7-0	7	3,2	1,3	0	15	12	R	K	R	R	-	-	A28
K20ER B12-7-2	7	3,2	1,3	0,2	15	12	R	K	R	R	R	R	A29

* Please note A=Depth of cut in one pass

Style BP | Inserts for back turning in sticky materials

INSERTS	A	B	C	R	V°	Ax	RAD	8M	F8	B8	NF8	ND8	PRICE
K15ER BP12-2-0	2,5	1,3	0,5	0	20	12	14	R	R	R	-	-	A8
K15ER BP12-2-03	2,5	1,3	0,5	0,03	20	12	14	R	R	R	-	-	A9
K15ER BP12-2-05	2,5	1,3	0,5	0,05	20	12	14	R	R	R	-	-	A9
K15ER BP12-4-0	4	1,9	0,7	0	20	12	14	R	R	R	-	-	A8
K15ER BP12-4-1	4	1,9	0,7	0,1	20	12	14	R	R	R	R	R	A9
K15ER BP12-4-2	4	1,9	0,7	0,2	20	12	14	R	R	R	R	R	A9



Style BT | Inserts for back turning, tough materials, longer tool life

INSERTS	A	B	C	R	V°	C. RAKE°	8M	C8	F8	B8	NF8	ND8	PRICE
K15ER BT12-4-2	4	1,9	0,7	0,2	15	12	R	K	R	R	R	R	A9
K20ER BT12-7-2	7	3,2	1,3	0,2	15	12	R	K	R	R	R	R	A29

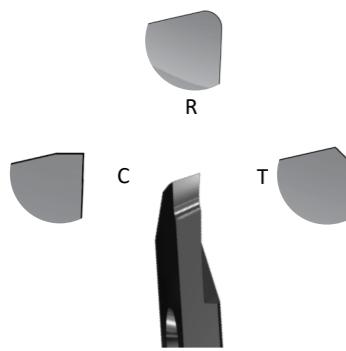
Style VLR | Inserts for back turning profiles

INSERTS	A	B	R ¹	R ²	V°	C. RAKE°	8M	C8	F8	B8	NF8	ND8	PRICE
K15ER VLR12-04	3	1,0	0,04	0,04	35	20	R	K	R	R	-	-	A7
K15ER VLR12-05	3	1,9	0,05	0,05	35	20	R	K	R	R	-	-	A7
K15ER VLR12-08	3	1,9	0,08	0,08	35	20	R	K	R	R	-	-	A7
K15ER VLR12-12	3	1,9	0,1	0,2	35	20	R	K	R	R	-	-	A7
K15ER VLR12-15	3	1,9	0,15	0,15	35	20	R	K	R	R	-	-	A7
K15ER VLR12-2-28	3	1,9	0,2	0,2	28	20	R	K	R	R	-	-	A7
K15ER VLR12-2	3	1,9	0,2	0,2	35	20	R	K	R	R	R	R	A7
K15ER VLR8-2	3	2,0	0,2	0,2	42	8	-	-	-	R	R	A7	
K15ER VLR8-2L	6	2,0	0,2	0,2	42	8	-	-	-	-	R	A7	
K20ER VLR12-2	9	3,4	0,2	0,2	35	20	R	R	R	R	R	R	A27

Style E | Inserts for super finish back turning

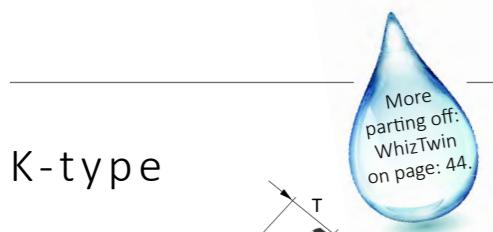
INSERTS	MAX CUT	C	t	R ¹	R ²	V°	C. RAKE°	8M	F8	B8	PRICE
K15ER ED16-05-15	0,8	0	0,6	0,05	0,15	30	16	R	R	R	A8
K15ER ED16-1-2	0,8	0	0,5	0,1	0,2	30	16	R	R	R	A8
K15ER ED16-18	0,8	0	0,6	0,18	0,18						

Parting off

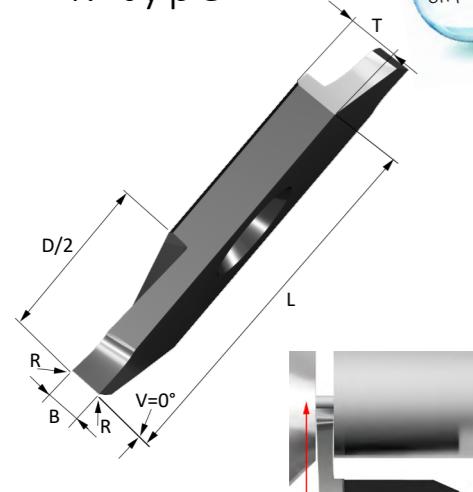


1. Axial relief vs. component possibilities

- Style P: 0° gives the strongest tool. Suitable with use of sub spindle. Style PS can be used for extra stability.
- Style Y: 6° gives a strong tool, can leave a small nib if a sub spindle is not used.
- Style Z: 15° is an all-round parting off insert. It can be used without a sub spindle.
- Style S, U: 20-30° is a less strong tool suitable for small parts where a fine surface finish is needed.



K-type



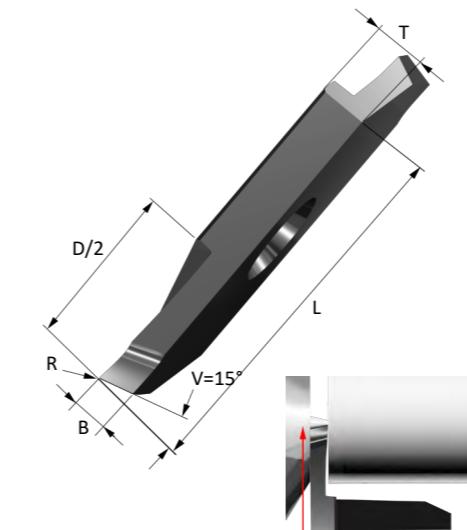
Style P, PS | Inserts for parting off

INSERTS	MAX				STOCK				PRICE
	B	D	R	C. RAKE°	8M	C8	F8	B8	
K11ER/L P0,5-12	0,5	4	0	12	B	K	B	B	- - A5
K11ER/L P0,8-12	0,8	7	0	12	B	K	B	B	- - A5
K11ER/L P1,0-12	1	9	0	12	B	K	B	B	- - A5
K11ER/L P1,5-12	1,5	11	0	12	B	K	B	B	- - A5
K15ER/L PS0,5-12	0,5	3	0	12	B	K	B	B	- - A4
K15ER/L P0,7-12	0,7	5	0	12	B	K	B	B	- - A5
K15ER/L P1,0-12	1	10	0	12	A	K	B	B	R R A5
K15ER/L P1,0-12-R05	1	10	0,05	12	A	K	A	A	A A6
K15ER/P1,0-12	1	6	0	12	R	K	R	R	- - A5
K15ER/P1,0-20	1	10	0	20	R	K	R	R	R A5
K15ER/L P1,2-12	1,2	12	0	12	A	K	B	B	- - A5
K15ER/L P1,5-12	1,5	12,7	0	12	A	K	B	B	R R A5
K15ER/L P1,5-12-R05	1,5	12,7	0,05	12	A	K	A	A	A A6
K15ER/PS1,0-12	1,5	9	0	12	R	K	A	R	- - A4
K15ER/L P1,5-20	1,5	12	0	20	B	K	B	B	R R A4
K15ER/L P2,0-12	2	12,7	0	12	A	K	B	B	- - A4
K20ER/P1,5-12	1,5	16	0	12	R	K	R	R	R A25
K20ER/P2,0-12	2	20	0	12	R	K	R	R	R A25
K20ER/P2,5-12	2,5	20	0	12	R	K	R	R	R R A25
K20ER/P3,0-12	3	20	0	12	R	K	R	R	R R A25

Style Y | Inserts for parting off

INSERTS	MAX				STOCK				PRICE
	B	D	R	C. RAKE°	8M	C8	F8	B8	
K11ER/L Y1,0-12	1	9	0	12	B	K	B	B	- - A6
K11ER/L Y1,5-12	1,5	11	0	12	B	K	B	B	- - A5
K15ER/Y1,0-12	1	10	0	12	A	K	B	B	R R A6
K15ER/Y1,0-12-R05	1	10	0,05	12	K	K	K	R	R A7
K15ER/L Y1,2-12	1,2	12	0	12	B	K	B	B	- - A5
K15ER/L Y1,5-12	1,5	12,7	0	12	A	K	B	B	- - A5
K15ER/Y1,5-12-R05	1,5	12,7	0,05	12	K	K	K	R	R A6
K20ER/Y2,0-12	2	12,7	0	12	A	K	B	B	- - A5
K20ER/Y2,5-12	2,5	20	0	12	R	K	R	R	R K A26

K-type



Style Z | Inserts for parting off

INSERTS	MAX				STOCK				PRICE
	B	D	R	C. RAKE°	8M	C8	F8	B8	
K11ER/L Z0,5-12	0,5	4	0	12	A	K	B	B	- - A6
K11ER/L Z1,0-0	1	9	0	0	A	K	B	B	R R A6
K11ER/L Z1,0-12	1	9	0	12	A	K	B	B	- - A6
K11ER/L Z1,5-0	1,5	11	0	0	A	K	B	B	- - A5
K11ER/L Z1,5-12	1,5	11	0	12	A	K	B	B	R R A5
K15ER Z0,5-12	0,5	5	0	12	R	K	R	R	- - A6
K15ER Z0,7-0	0,7	5	0	0	R	K	R	R	R R A6
K15ER/L Z0,7-12	0,7	5	0	12	B	K	B	B	- - A6
K15ER/L Z1,0-0	1	10	0	0	A	K	B	B	R R A6
K15ER Z1,0-0-T10	1	10	C=0,1	0	R	K	R	R	- - A6
K15ER Z1,0-0-R05	1	10	0,05	1	R	K	R	R	R R A7
K15ER/L Z1,0-12	1	10	0	12	A	K	B	B	- - A6
K15ER/L Z1,5-0	1,5	12,7	0	0	A	K	B	B	- - A5
K15ER/L Z1,5-12	1,5	12,7	0	12	A	K	B	B	R R A5
K15ER Z1,5-12-R1	1,5	12,7	0,1	12	R	K	R	R	R R A5
K15ER/L Z2,0-0	2	12,7	0	0	A	K	B	B	- - A5
K20ER Z2,0-0	2	20	0	0	R	R	R	R	R R A26
K20ER Z2,0-12	2	20	0	12	R	R	R	R	- - A26
K20ER Z2,5-0	2,5	20	0	0	R	R	R	R	R R A26
K20ER Z2,5-12	2,5	20	0	12	R	R	R	R	- - A26

Style S | Inserts for parting off, short

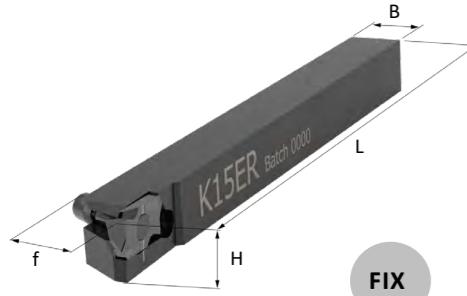
INSERTS	MAX				STOCK				PRICE
	B	D	R	C. RAKE	8M	C8	F8	B8	
K15ER S1,0-0	1	6	0	0	R	K	R	R	A5
K15ER S1,0-12	1	6	0	12	R	K	R	R	A6
K15ER S1,5-0	1,5	9	0	0	R	K	R	R	A5
K15ER S1,5-12	1,5	9	0	12	R	K	R	R	A6

Style U | Inserts for parting off

INSERTS	MAX				STOCK				PRICE
	B	D	R	C. RAKE	8M	C8	F8	B8	
K11ER/L U1,0-0	1	8	0	0	B	K	B	B	A6
K15ER U0,5-0	0,5	5	0	0	K	K	K	K	A6
K15ER/L U1,0-0	1	8	0</td						

K-type

WPK | Toolholders with WhizFix pin type clamping



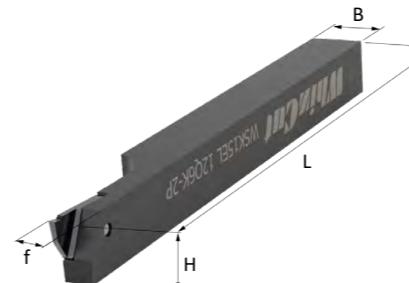
TOOLHOLDER	H	B	L	f	INSERT	PIN	BIT	STOCK	PRICE
WPK11ER/L 88K-2P	8	8	125	8	K11ER/L	PIN 8	T15	A	A62
WPK11ER/L 1010K-2P	10	10	125	10	K11ER/L	PIN 8	T15	A	A62
WPK15ER/L 1010K-2P	10	10	125	10	K15ER/L	PIN 12	T20	A	A62
WPK15ER 1212F-2P	12	12	85	12	K15ER	PIN 12	T20	R	A61
WPK15ER/L 1212K-2P	12	12	125	12	K15ER/L	PIN 12	T20	A	A62
WPK15ER 0500K-2P	1/2"	1/2"	125	1/2"	K15ER	PIN 12	T20	R	A62
WPK15ER/L 1616K-2P	16	16	125	16	K15ER/L	PIN 12	T20	A	A63
WPK20ER 1212K-2P	12	12	125	12	K20ER	PIN 16	T25	R	A62
WPK20ER 0500K-2P	1/2"	1/2"	125	1/2"	K20ER	PIN 16	T25	R	A62
WPK20ER 1616K-2P	16	16	125	16	K20ER	PIN 16	T25	R	A63
WPK20ER 2020K-2P	20	20	125	20	K20ER	PIN 16	T25	R	A64



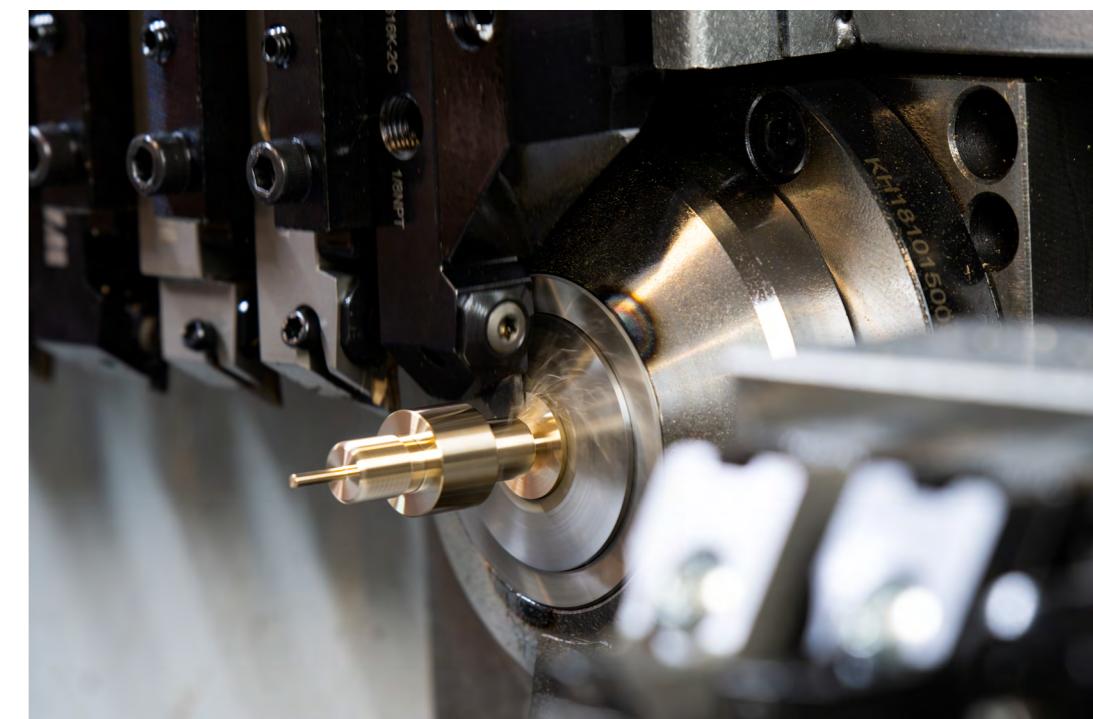
WhizFix
Clamping

K-type

WSK | Left hand toolholders with insert in centre

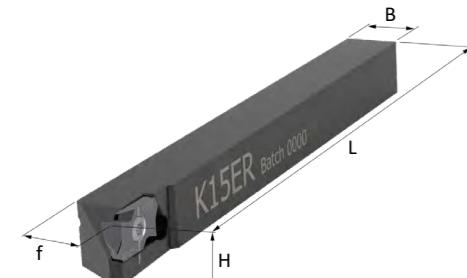


TOOLHOLDER	H	B	L	f	INSERT	SCREW	KEY	STOCK	PRICE
WSK15EL 12Q6K-2P	12	12	125	6	K15EL	M3X5	T9IP	L	A52

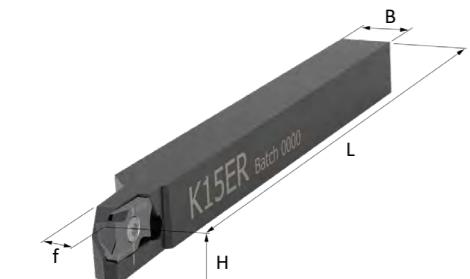


Parting off up to 20 mm with WhizCut K20ER inserts.

WSK | Toolholders with conventional clamping

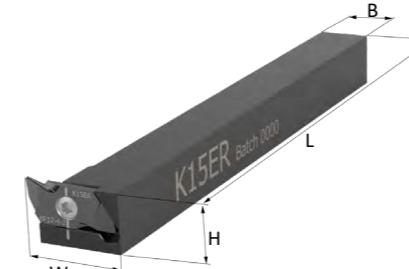


TOOLHOLDER	H	B	L	f	INSERT	SCREW	KEY	STOCK	PRICE
WSK11ER/L 88K-2P	8	8	125	8	K11ER/L	M2,5X6	T7IP	A	A52
WSK15ER 0810H-2P	8	10	100	10	K15ER	M3X7	T9IP	R	A52
WSK15ER/L 1010K-2P	10	10	125	10	K15ER/L	M3X7	T9IP	A	A52
WSK15ER/L 1212K-2P	12	12	125	12	K15ER/L	M3X7	T9IP	A	A52
WSK15ER/L 0500K-2P	1/2"	1/2"	125	1/2"	K15ER/L	M3X7	T9IP	A	A52
WSK15ER/L 1616K-2P	16	16	125	16	K15ER/L	M3X7	T9IP	A	A53
WSK15ER 2020K-2P	20	20	125	20	K15ER	M3X7	T9IP	R	A54
WSK15ER 2525M-2P	25	25	150	25	K15ER	M3X7	T9IP	R	A55
WSK15ER 1000M-2P	1"	1"	150	1"	K15ER	M3X7	T9IP	R	A55
WSK20ER 1212K-2P	12	12	125	12	K20ER	M4X9	T15	R	A52
WSK20ER 0500K-2P	1/2"	1/2"	125	1/2"	K20ER	M4X9	T15	R	A52
WSK20ER 1616K-2P	16	16	125	16	K20ER	M4X9	T15	R	A53
WSK20ER 2020K-2P	20	20	125	20	K20ER	M4X9	T15	R	A54
WSK20ER 2525M-2P	25	25	150	25	K20ER	M4X9	T15	R	A55
WSK20ER 1000M-2P	1"	1"	150	1"	K20ER	M4X9	T15	R	A55



WSK | Toolholders for small parts

TOOLHOLDER	H	B	L	f	INSERT	SCREW	KEY	STOCK	PRICE
WSK15ER 1010K-2B	10	10	125	5	K15ER	M3X5	T9IP	R	A52
WSK15ER 1212K-2B	12	12	125	6	K15ER	M3X5	T9IP	R	A52

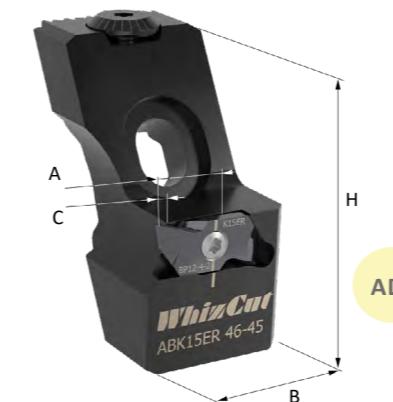


TOOLHOLDER	H	B	L	W	INSERT	SCREW	KEY	STOCK	PRICE
ZSK15ER 1212K-2P	12	12	125	20	K15ER	M3X7	T9IP	R	A72
ZSK15ER 1616K-2P	16	16	125	24	K15ER	M3X7	T9IP	R	A73

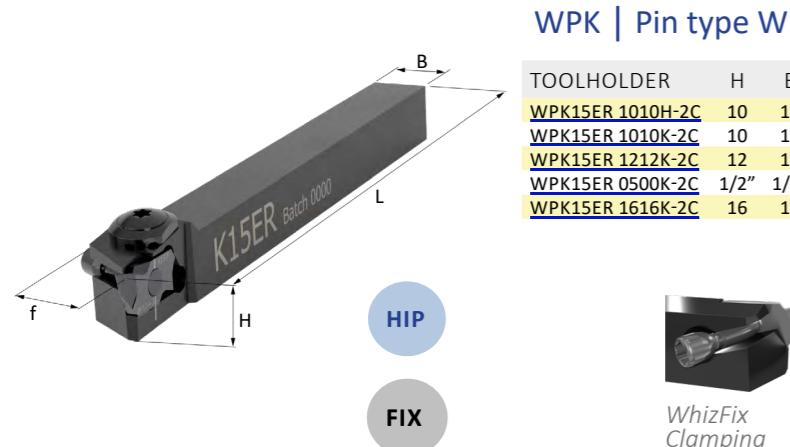
ABK | WhizAdjust toolholder

T.HOLDER HEAD	H	B	A	C MAX DOC	MAX FEED LENGTH	INSERT TYPE	CLAMPING SCREW	KEY	STOCK	PRICE
ABK15ER-46-45	46	24	12	4	45	K15ER	M3X7	T9IP	R	D55

For more information and shanks see WhizAdjust page 50.
A is measurement from cutting edge to centre of shank.



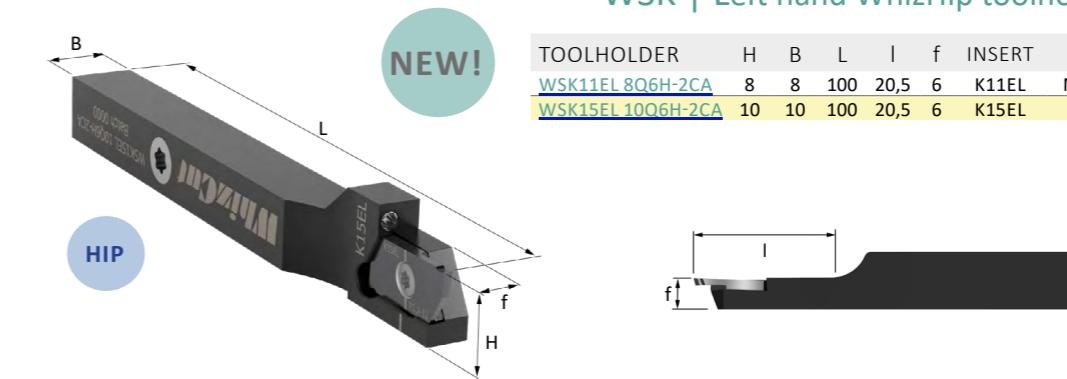
K-type



WPK | Pin type WhizHip toolholders for high pressure coolant

TOOLHOLDER	H	B	L	f	INSERT	PLUG	PIN	BIT	STOCK	PRICE
WPK15ER 1010H-2C	10	10	100	10	K15ER	M8X1	PIN12	T20	R	A82
WPK15ER 1010K-2C	10	10	125	10	K15ER	M8X1	PIN12	T20	R	A82
WPK15ER 1212K-2C	12	12	125	12	K15ER	1/8" NPT	PIN12	T20	R	A82
WPK15ER 0500K-2C	1/2"	1/2"	125	1/2"	K15ER	1/8" NPT	PIN12	T20	R	A82
WPK15ER 1616K-2C	16	16	125	16	K15ER	1/8" NPT	PIN12	T20	R	A83

K-type



WSK | Left hand WhizHip toolholders for parting off

TOOLHOLDER	H	B	L	I	f	INSERT	PLUG	SCREW	KEY	STOCK	PRICE
WSK11EL 8Q6H-2CA	8	8	100	20,5	6	K11EL	M5X0,8	M2,5X6	T7IP	L	A73
WSK15EL 10Q6H-2CA	10	10	100	20,5	6	K15EL	M8X1	M3X5	T9IP	L	A73

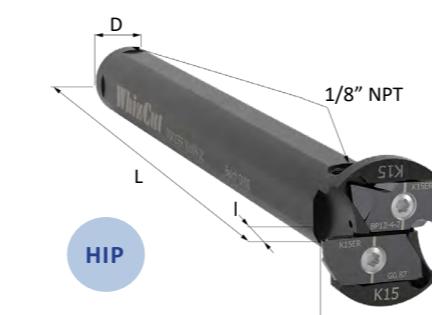
WSK | WhizHip toolholders for high pressure coolant

TOOLHOLDER	H	B	L	f	INSERT	PLUG	SCREW	KEY	STOCK	PRICE
WSK11ER 88H-2C	8	8	100	10	K11ER	M5X0,8	M2,5X6	T7IP	R	A73
WSK11ER 88K-2C	8	8	125	10	K11ER	M5X0,8	M2,5X6	T7IP	R	A73
WSK15ER 1010H-2C	10	10	100	10	K15ER	M8X1	M3X7	T9IP	B	A72
WSK15ER 1010K-2C	10	10	125	10	K15ER	M8X1	M3X7	T9IP	B	A72
WSK15ER/L 1212K-2C	12	12	125	12	K15ER	1/8" NPT	M3X7	T9IP	B	A72
WSK15ER 0500H-2C	1/2"	1/2"	100	1/2"	K15ER	1/8" NPT	M3X7	T9IP	B	A72
WSK15ER/L 0500K-2C	1/2"	1/2"	125	1/2"	K15ER	1/8" NPT	M3X7	T9IP	B	A72
WSK15ER/L 1616K-2C	16	16	125	16	K15ER	1/8" NPT	M3X7	T9IP	B	A73
WSK15ER 0750K-2C	3/4"	3/4"	125	3/4"	K15ER	1/8" NPT	M3X7	T9IP	R	A73
WSK20ER 1216K-2C	12	16	125	16	K20ER	1/8" NPT	M4X9	T15	R	A72
WSK20ER 0516K-2C	1/2"	16	125	16	K20ER	1/8" NPT	M4X9	T15	R	A72
WSK20ER 1616K-2C	16	16	125	16	K20ER	1/8" NPT	M4X9	T15	R	A73
WSK20ER 2020K-2C	20	20	125	20	K20ER	1/8" NPT	M4X9	T15	R	A74
WSK20ER 2525M-2C	25	25	150	25	K20ER	1/8" NPT	M4X9	T15	R	A74
WSK20ER 1000M-2C	1"	1"	150	1"	K20ER	1/8" NPT	M4X9	T15	R	A74



WSK | Shifted edge WhizHip toolholders

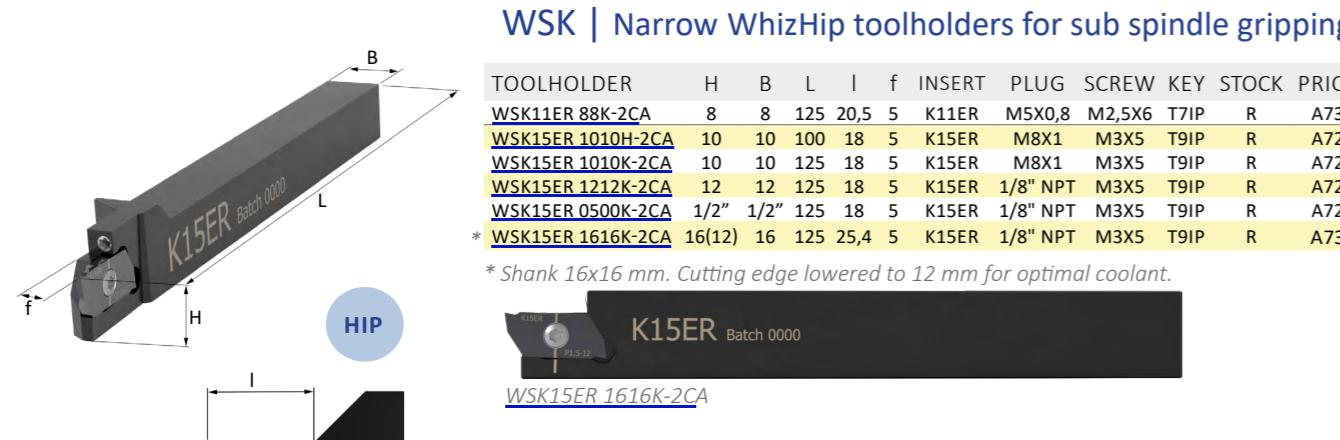
TOOLHOLDER	H	B	L	f	INSERT	PLUG	SCREW	KEY	STOCK	PRICE
WSK15ER 1020H-2C	10	20	100	10	K15ER	M8X1	M3X7	T9IP	R	A72
WSK15ER 1224K-2C	12	24	125	12	K15ER	1/8" NPT	M3X7	T9IP	R	A72
WSK15ER 0510K-2C	1/2"	1"	125	1/2"	K15ER	1/8" NPT	M3X7	T9IP	R	A72
WSK15ER 1632K-2C	16	32	125	16	K15ER	1/8" NPT	M3X7	T9IP	R	A72



DSK | WhizHip double inserts toolholder round shank

TOOLHOLDER	D	W	L	I	INSERT	SCREW	KEY	STOCK	PRICE
DSK15ER 0625M-2C	5/8"	24	150	40	K15ER	M3X7	T9IP	R	A87
DSK15ER 0016M-2C	16	24	150	40	K15ER	M3X7	T9IP	R	A87
DSK15ER 0750M-2C	3/4"	24	150	40	K15ER	M3X7	T9IP	R	A87
DSK15ER 0020M-2C	20	24	150	40	K15ER	M3X7	T9IP	R	A87
DSK15ER 0022M-2C	22	24	150	40	K15ER	M3X7	T9IP	R	A87
DSK15ER 0025M-2C	25	24	150	40	K15ER	M3X7	T9IP	R	A87
DSK15ER 1000M-2C	1"	24	150	40	K15ER	M3X7	T9IP	R	A87

All holders are available as DSKJ15ER, with one J15ER and one K15ER pocket.
All holders have four location flats.



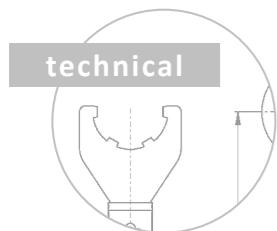
TOOLHOLDER	H	B	L	I	f	INSERT	PLUG	SCREW	KEY	STOCK	PRICE
WSK11ER 88K-2CA	8	8	125	20,5	5	K11ER	M5X0,8	M2,5X6	T7IP	R	A73
WSK15ER 1010H-2CA	10	10	100	18	5	K15ER	M8X1	M3X5	T9IP	R	A72
WSK15ER 1010K-2CA	10	10	125	18	5	K15ER	M8X1	M3X5	T9IP	R	A72
WSK15ER 1212K-2CA	12	12	125	18	5	K15ER	1/8" NPT	M3X5	T9IP	R	A72
WSK15ER 0500K-2CA	1/2"	1/2"	125	18	5	K15ER	1/8" NPT	M3X5	T9IP	R	A72
* WSK15ER 1616K-2CA	16(12)	16	125	25,4	5	K15ER	1/8" NPT	M3X5	T9IP	R	A73

PRECISION THREADING

WhizThread

Increase productivity together with the winning concept of Whiz-Thread. The four very sharp cutting edges are precision ground on all four sides and tangentially mounted. This results in longer lasting inserts and great performance.





Four cutting edges - maximum stability

Stable and long lasting – the focal point of the WhizThread design. It is a performance based tool system where the insert is fixed in the most solid position. The resulting clamping force goes diagonally through the insert and toolholder, as the insert is forced back into the toolholder pocket to boost stability.

Range benefits

- Better cutting conditions:** by a standing-up-insert in the toolholder. Cutting forces are drawn through the insert into the holder for stability.
- Work close to the shoulder:** with minimal distance between the side of the insert and the thread.
- Improved thread quality:** with precision ground cutting edges on all sides and a stable insert.
- Less time with tool change:** combine WhizThread with WhizFix tool holder system and index the inserts with the toolholder still in the machine.
- Quick-change coolant through:** all WhizThread inserts can be used with the WhizHip coolant through holders.

Perfect fit with WhizCut signature toolholders:



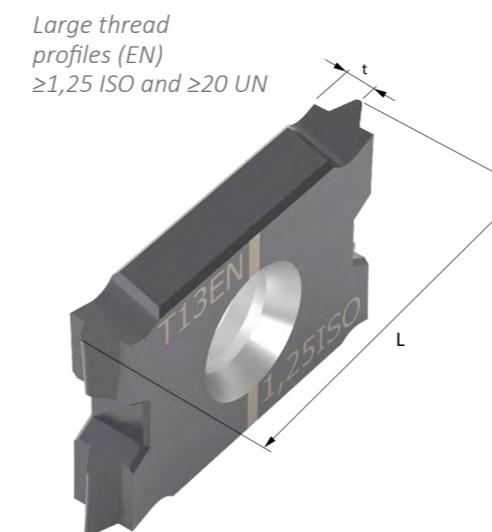
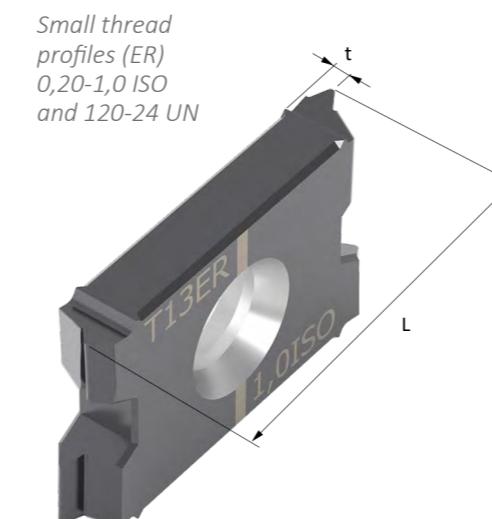
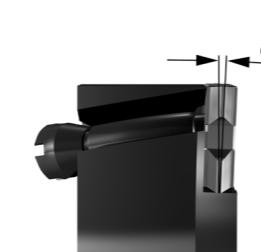
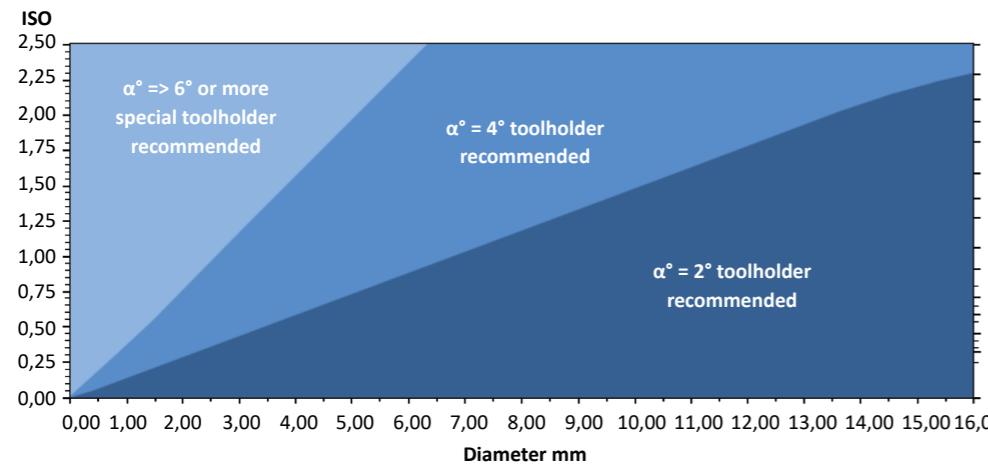
WhizGuide
select holder with the ideal cutting angle

1. Cutting angle: 2°, 4° & 6°

- The secret of threading really small parts is to select a correct cutting angle of the toolholder.
- WhizThread toolholders are available with a 2°, 4° and 6° cutting angle.

2. Pitch and diameter

- The WhizGuide-table recommends an appropriate toolholder, depending on part pitch and diameter.
- If you have a very high pitch-to-diameter-ratio we advice special toolholders.



T-ISO | Inserts for full profile threading

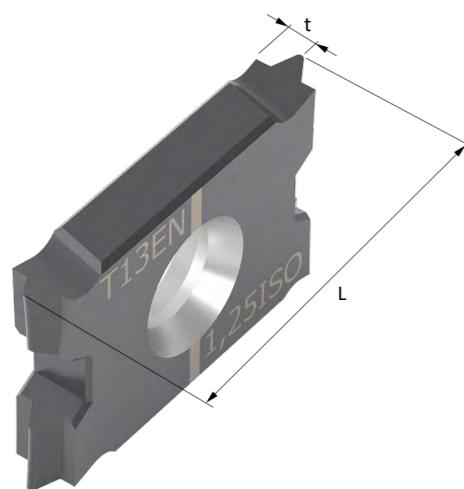
PITCH MM	INSERTS	L	t	8M	C8	F8	B8	PRICE
New! 0,2	T13ER 0.2ISO	13	0,15	R	-	-	R	E5
0,25	T13ER 0.25ISO	13	0,2	R	-	R	R	E5
0,3	T13ER 0.3ISO	13	0,2	R	-	R	R	E5
0,35	T13ER 0.35ISO	13	0,25	R	-	R	R	E5
0,4	T13ER 0.4ISO	13	0,25	R	K	R	R	E4
0,45	T13ER 0.45ISO	13	0,3	R	K	R	R	E4
0,5	T13ER 0.5ISO	13	0,3	R	K	R	R	E3
0,6	T13ER 0.6ISO	13	0,35	R	K	R	R	E3
0,7	T13ER 0.7ISO	13	0,4	R	K	R	R	E3
0,75	T13ER 0.75ISO	13	0,4	R	K	R	R	E3
0,8	T13ER 0.8ISO	13	0,45	R	K	R	R	E3
1	T13ER 1.0ISO	13	0,55	R	K	R	R	E3
1,25	T13EN 1.25ISO	13	1,1	E	K	E	E	E2
1,5	T13EN 1.5ISO	13	1,1	E	K	E	E	E2
1,75	T13EN 1.75ISO	13	1,1	E	K	E	E	E2
2	T13EN 2.0ISO	13	1,1	E	K	E	E	E2

T-UN | Inserts for full profile threading UNC, UNF, UNEF, UNS

TPI	INSERTS	L	t	8M	C8	F8	B8	PRICE
120	T13ER 120UN	13	0,15	R	-	R	R	E5
90	T13ER 90UN	13	0,2	R	-	R	R	E5
80	T13ER 80UN	13	0,2	R	K	R	R	E5
72	T13ER 72UN	13	0,25	R	K	R	R	E5
64	T13ER 64UN	13	0,25	R	K	R	R	E4
56	T13ER 56UN	13	0,3	R	K	R	R	E4
48	T13ER 48UN	13	0,35	R	K	R	R	E3
44	T13ER 44UN	13	0,35	R	K	R	R	E3
40	T13ER 40UN	13	0,4	R	K	R	R	E3
36	T13ER 36UN	13	0,4	R	K	R	R	E3
32	T13ER 32UN	13	0,45	R	K	R	R	E3
28	T13ER 28UN	13	0,5	R	K	R	R	E3
24	T13ER 24UN	13	0,55	R	K	R	R	E3
20	T13EN 20UN	13	1,1	E	K	E	E	E2
18	T13EN 18UN	13	1,1	E	K	E	E	E2
16	T13EN 16UN	13	1,1	E	K	E	E	E2
14	T13EN 14UN	13	1,1	E	K	E	E	E2
13	T13EN 13UN	13	1,1	E	K	E	E	E2
12	T13EN 12UN	13	1,1	E	K	E	E	E2

T-UNJ | Inserts for full profile threading UNJC, UNFJ, UNJEF, UNJS

TPI	INSERTS	L	t	8M	C8	F8	B8	PRICE
48	T13ER 48UNJ	13	0,35	R	K	R	R	E3
40	T13ER 40UNJ	13	0,4	R	K	R	R	E3
36	T13ER 36UNJ	13	0,4	R	K	R	R	E3
32	T13ER 32UNJ	13	0,45	R	K	R	R	E3
28	T13ER 28UNJ	13	0,5	R	K	R	R	E3
24	T13ER 24UNJ	13	0,55	R	K	R	R	E3
20	T13EN 20UNJ	13	1,1	E	K	E	E	E2
18	T13EN 18UNJ	13	1,1	E	K	E	E	E2
16	T13EN 16UNJ	13	1,1	E	K	E	E	E2
14	T13EN 14UNJ	13	1,1	E	K	E	E	E2
13	T13EN 13UNJ	13	1,1	E	K	E	E	E2
12	T13EN 12UNJ	13	1,1	E	K	E	E	E2



T-NPT | Inserts for full profile threading - NPT

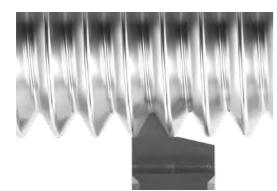
TPI	INSERTS	L	t	STOCK				PRICE
				8M	C8	F8	B8	
27	T13ER 27NPT	13	0,55	R	K	R	R	E5
18	T13EN 18NPT	13	1,1	E	K	E	E	E4
14	T13EN 14NPT	13	1,1	E	K	E	E	E4

T-NPTF | Inserts for full profile threading - NPTF

TPI	INSERTS	L	t	STOCK				PRICE
				8M	C8	F8	B8	
27	T13ER 27NPTF	13	0,55	R	K	R	R	E5
18	T13EN 18NPTF	13	1,1	E	K	E	E	E4
14	T13EN 14NPTF	13	1,1	E	K	E	E	E4

T-W | Inserts for full profile threading whitworth BSW, BSP, BSF, BSB

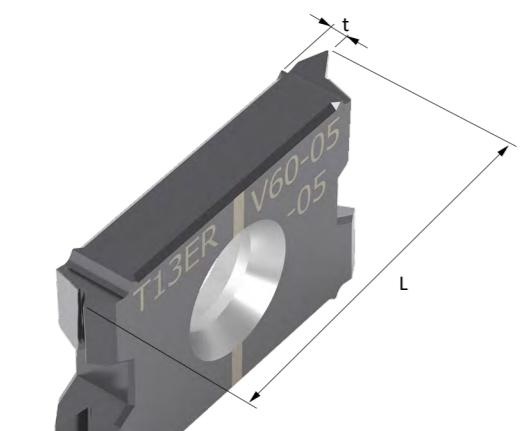
TPI	INSERTS	L	t	STOCK				PRICE
				8M	C8	F8	B8	
28	T13ER 28W	13	0,55	R	K	R	R	E5
19	T13EN 19W	13	1,1	E	K	E	E	E4
14	T13EN 14W	13	1,1	E	K	E	E	E4



Full profile threading

Style V | Inserts for partial profile micro threading

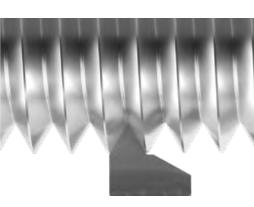
INSERTS	L	V°	t	R	STOCK				PRICE
					8M	C8	F8	B8	
T13ER V55-02-02	13	55	0,2	0,02	R	K	R	R	E3
T13ER V55-05-02	13	55	0,5	0,02	R	K	R	R	E2
T13ER V60-01-01	13	60	0,1	0,01	R	K	R	R	E3
T13ER V60-02-02	13	60	0,2	0,02	R	K	R	R	E3
T13ER V60-05-02	13	60	0,5	0,02	R	K	R	R	E2
T13ER V60-05-05	13	60	0,5	0,05	R	K	R	R	E2



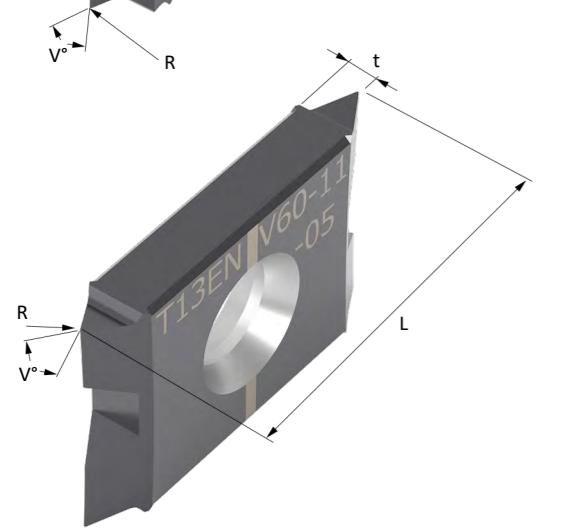
Style V | Inserts for partial profile threading

INSERTS	L	V°	t	R	STOCK				PRICE
					8M	C8	F8	B8	
T13EN V55-11-10	13	55	1,1	0,1	E	K	E	E	E3
T13EN V60-11-05	13	60	1,1	0,05	E	K	E	E	E2
T13EN V60-11-10	13	60	1,1	0,1	E	K	E	E	E2
T13EN V80-11-14	13	80	1,1	0,14	E	K	E	E	E3
T13EN V90-11	13	90	1,1	0,10	E	K	E	E	E2

T13EN V90-11 has a 0,1mm flat instead of a radius.



Partial profile threading

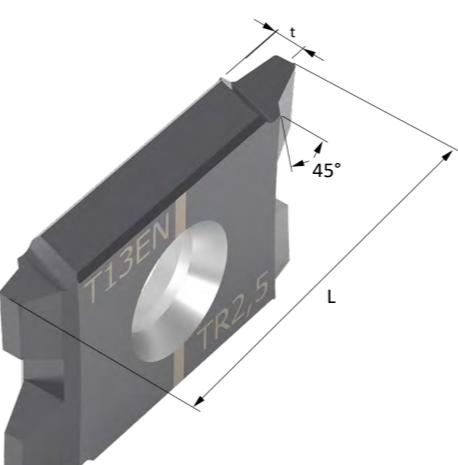


TR, ACME and stub ACME

TR, ACME and Stub ACME threading inserts are now designed with extra side clearance along the profile with a maintained stability.

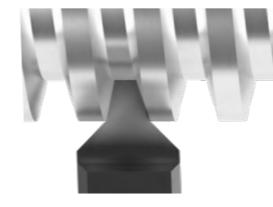
Succeed with WhizThread TR, ACME and Stub ACME

- Perfect for all tolerance classes** - all inserts and corners are precision ground.
- Great clearance** - even when helix angle varies at major and minor diameters.
- Good surface finish** - thanks to sufficient clearance.
- Identical** - profiles and reliefs are the same on all four corners and cutting edges.
- Outstanding stability** - compared to traditional design threading inserts.
- Productivity increases** - use higher speeds and feeds thanks to the combination of high stability and reliefs.
- Special inserts** - can also be made with similar benefits, for module and other thread types.



T-Tr | Inserts for threading trapezoidal DIN 103

PITCH MM	INSERTS	L	t	STOCK				PRICE
				8M	C8	F8	B8	
1,5	T13EN 1,5TR	13	1,1	K	K	K	E	E5
2	T13EN 2,0TR	13	1,1	K	K	K	E	E4
2,5	T13EN 2,5TR	13	1,1	K	K	K	E	E4



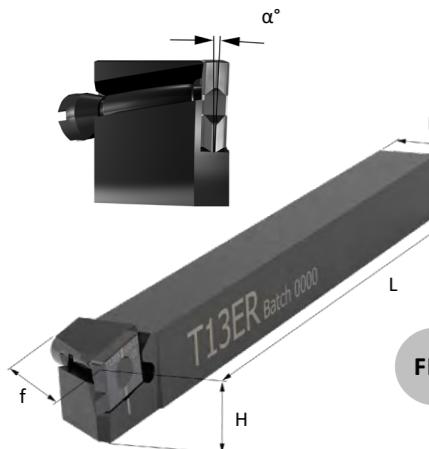
Partial profile threading

T-ACME | Inserts for threading - ACME

TPI	INSERTS	L	t	STOCK				PRICE
				8M	C8	F8	B8	
16	T13EN 16ACME	13	1,1	K	K	K	E	E5
14	T13EN 14ACME	13	1,1	K	K	K	E	E4
12	T13EN 12ACME	13	1,1	K	K	K	E	E4
10	T13EN 10ACME	13	1,1	K	K	K	E	E4

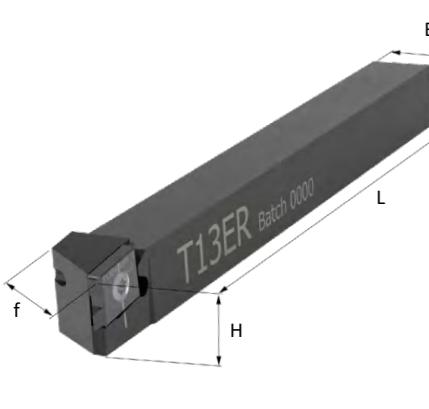
T-STACME | Inserts for threading - STUB ACME

TPI	INSERTS	L	t	STOCK				PRICE
				8M	C8	F8	B8	
16	T13EN 16STACME	13	1,1	K	K	K	E	E5
14	T13EN 14STACME	13	1,1</td					



TPT | Toolholders with WhizFix pin type clamping

TOOLHOLDER	H	B	L	f	α°	INSERT	PIN	BIT	STOCK	PRICE
TPT13ER 1010K-2	10	10	125	10	2°	T13ER/EN	PIN 12	T20	R	A62
TPT13ER 1010K-4	10	10	125	10	4°	T13ER/EN	PIN 12	T20	R	A62
TPT13ER 0375K-2	3/8"	3/8"	125	3/8"	2°	T13ER/EN	PIN 12	T20	R	A62
TPT13ER 0375K-4	3/8"	3/8"	125	3/8"	4°	T13ER/EN	PIN 12	T20	R	A62
TPT13ER 1212K-2	12	12	125	12	2°	T13ER/EN	PIN 12	T20	R	A62
TPT13ER 1212K-4	12	12	125	12	4°	T13ER/EN	PIN 12	T20	R	A62
TPT13ER 0500K-2	1/2"	1/2"	125	1/2"	2°	T13ER/EN	PIN 12	T20	R	A62
TPT13ER 0500K-4	1/2"	1/2"	125	1/2"	4°	T13ER/EN	PIN 12	T20	R	A62
TPT13ER 1616K-2	16	16	125	16	2°	T13ER/EN	PIN 12	T20	R	A63
TPT13ER 1616K-4	16	16	125	16	4°	T13ER/EN	PIN 12	T20	R	A63

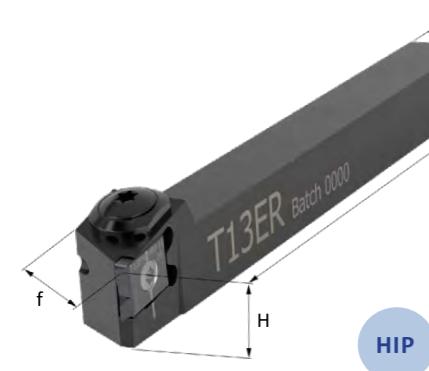


TST | Toolholders with conventional clamping

TOOLHOLDER	H	B	L	f	α°	INSERT	SCREW	KEY	STOCK	PRICE
TST13ER 88K-2	8	8	125	8	2°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 88K-4	8	8	125	8	4°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 1010K-2	10	10	125	10	2°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 1010K-4	10	10	125	10	4°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 1010K-6	10	10	125	10	6°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 0375K-2	3/8"	3/8"	125	3/8"	2°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 0375K-4	3/8"	3/8"	125	3/8"	4°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 1212K-2	12	12	125	12	2°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 1212K-4	12	12	125	12	4°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 1212K-6	12	12	125	12	6°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 1212K-8	12	12	125	12	8°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 0500K-2	1/2"	1/2"	125	1/2"	2°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 0500K-4	1/2"	1/2"	125	1/2"	4°	T13ER/EN	M3X7	T9IP	R	A52
TST13ER 1616K-2	16	16	125	16	2°	T13ER/EN	M3X7	T9IP	R	A53
TST13ER 1616K-4	16	16	125	16	4°	T13ER/EN	M3X7	T9IP	R	A53
TST13ER 0750K-2	3/4"	3/4"	125	3/4"	2°	T13ER/EN	M3X7	T9IP	R	A54
TST13ER 0750K-4	3/4"	3/4"	125	3/4"	4°	T13ER/EN	M3X7	T9IP	R	A54
TST13ER 2020K-2	20	20	125	20	2°	T13ER/EN	M3X7	T9IP	R	A54
TST13ER 2525M-2	25	25	150	25	2°	T13ER/EN	M3X7	T9IP	R	A55
TST13ER 1000M-2	1"	1"	150	1"	2°	T13ER/EN	M3X7	T9IP	R	A55

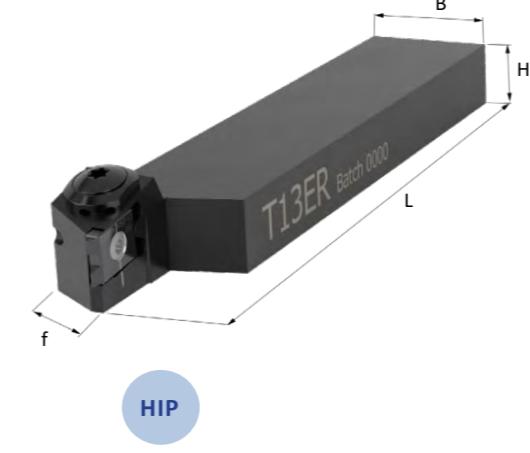


TOOLHOLDER	H	B	L	f	α°	INSERT	PIN	PLUG	BIT	STOCK	PRICE
TPT13ER 1010H-2C	10	10	100	10	2°	T13ER/EN	PIN12	M8X1	T20	R	A82
TPT13ER 1010K-2C	10	10	125	10	2°	T13ER/EN	PIN12	M8X1	T20	R	A82
TPT13ER 1010H-4C	10	10	100	10	4°	T13ER/EN	PIN12	M8X1	T20	R	A82
TPT13ER 1010K-4C	10	10	125	10	4°	T13ER/EN	PIN12	M8X1	T20	R	A82
TPT13ER 0375K-2C	3/8"	3/8"	125	3/8"	2°	T13ER/EN	PIN12	M8X1	T20	R	A82
TPT13ER 0375K-4C	3/8"	3/8"	125	3/8"	4°	T13ER/EN	PIN12	M8X1	T20	R	A82
TPT13ER 1212K-2C	12	12	125	12	2°	T13ER/EN	PIN12	1/8" NPT	T20	R	A82
TPT13ER 1212K-4C	12	12	125	12	4°	T13ER/EN	PIN12	1/8" NPT	T20	R	A82
TPT13ER 0500K-2C	1/2"	1/2"	125	1/2"	2°	T13ER/EN	PIN12	1/8" NPT	T20	R	A82
TPT13ER 0500K-4C	1/2"	1/2"	125	1/2"	4°	T13ER/EN	PIN12	1/8" NPT	T20	R	A82
TPT13ER 1616K-2C	16	16	125	16	2°	T13ER/EN	PIN12	1/8" NPT	T20	R	A83



TOOLHOLDER	H	B	L	f	α°	INSERT	SCREW	PLUG	KEY	STOCK	PRICE
New! TST13ER 88H-2C	8	8	100	10	2°	T13ER/EN	M3X7	M5X0,8	T9IP	R	A73
New! TST13ER 88K-2C	8	8	125	10	2°	T13ER/EN	M3X7	M5X0,8	T9IP	R	A73
New! TST13ER 88H-4C	8	8	100	10	4°	T13ER/EN	M3X7	M5X0,8	T9IP	R	A73
New! TST13ER 88K-4C	8	8	125	10	4°	T13ER/EN	M3X7	M5X0,8	T9IP	R	A73
TST13ER 1010H-2C	10	10	100	10	2°	T13ER/EN	M3X7	M8X1	T9IP	R	A72
TST13ER 1010K-2C	10	10	125	10	2°	T13ER/EN	M3X7	M8X1	T9IP	R	A72
TST13ER 1010H-4C	10	10	100	10	4°	T13ER/EN	M3X7	M8X1	T9IP	R	A72
TST13ER 1010K-4C	10	10	125	10	4°	T13ER/EN	M3X7	M8X1	T9IP	R	A72
TST13ER 0375K-2C	3/8"	3/8"	125	3/8"	2°	T13ER/EN	M3X7	M8X1	T9IP	R	A72
TST13ER 0375K-4C	3/8"	3/8"	125	3/8"	4°	T13ER/EN	M3X7	M8X1	T9IP	R	A72
TST13ER 1212K-2C	12	12	125	12	2°	T13ER/EN	M3X7	1/8" NPT	T9IP	R	A72
TST13ER 1212K-4C	12	12	125	12	4°	T13ER/EN	M3X7	1/8" NPT	T9IP	R	A72
TST13ER 0500K-2C	1/2"	1/2"	125	1/2"	2°	T13ER/EN	M3X7	1/8" NPT	T9IP	R	A72
TST13ER 0500K-4C	1/2"	1/2"	125	1/2"	4°	T13ER/EN	M3X7	1/8" NPT	T9IP	R	A72
TST13ER 1616K-2C	16	16	125	16	2°	T13ER/EN	M3X7	1/8" NPT	T9IP	R	A73

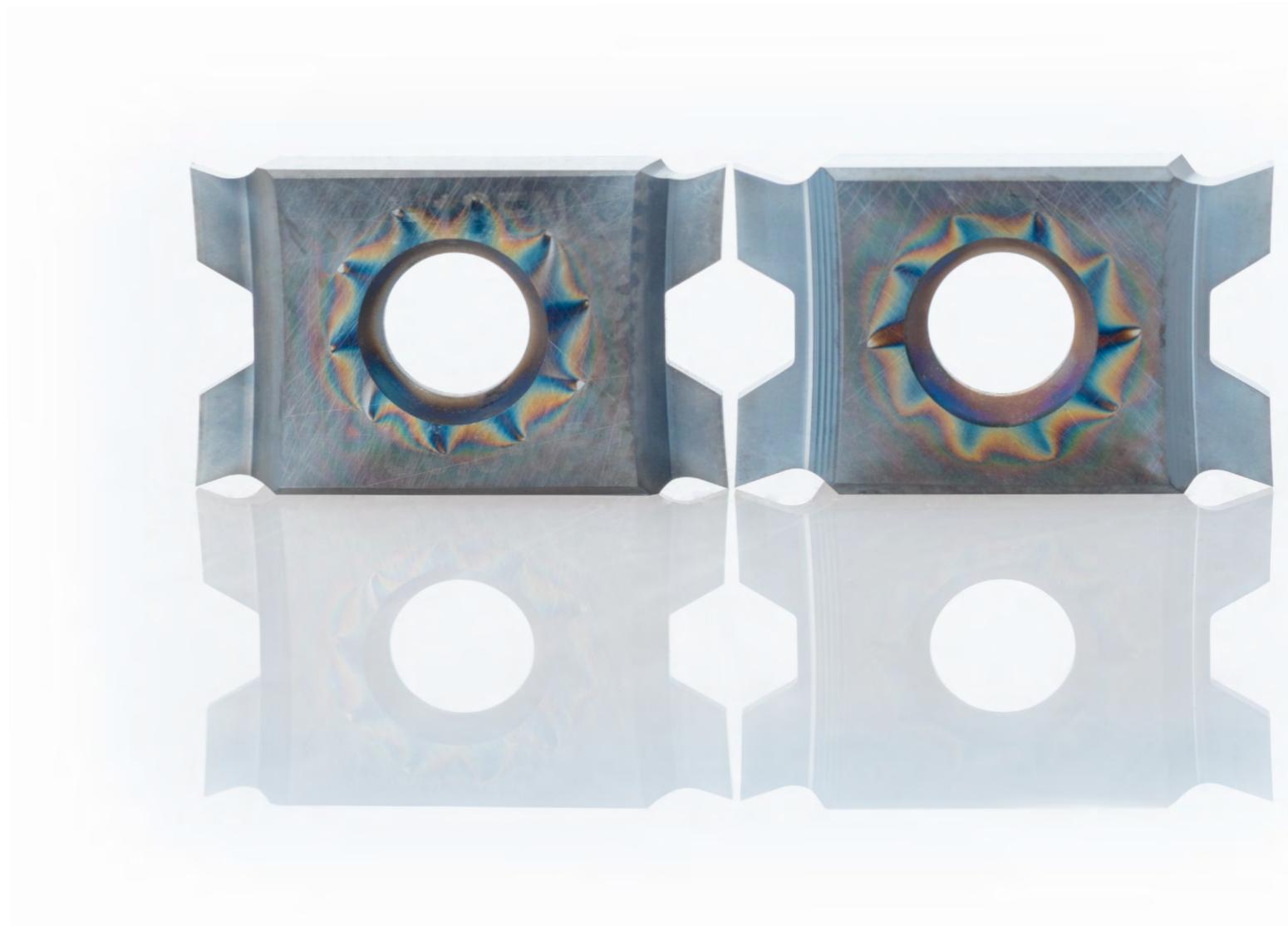
For stock status definitions see page 7.

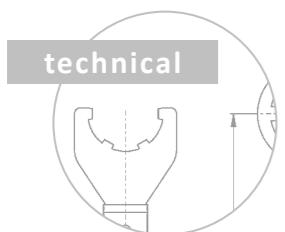


PRECISION GROOVING

WhizGroove

Have the cutting edge your way. WhizGroove inserts have four precision ground cutting edges and they come in four different shapes: sharp cutting edges and corners, corner radius, full radius and slightly honed cutting edges. It is a great combination of precision, stability and low cost per cutting edge.





WhizGroove - for tight tolerances

Perform excellent and eliminate variation in cut parts. Increase your productivity with WhizGroove: precision ground inserts with four cutting edges.

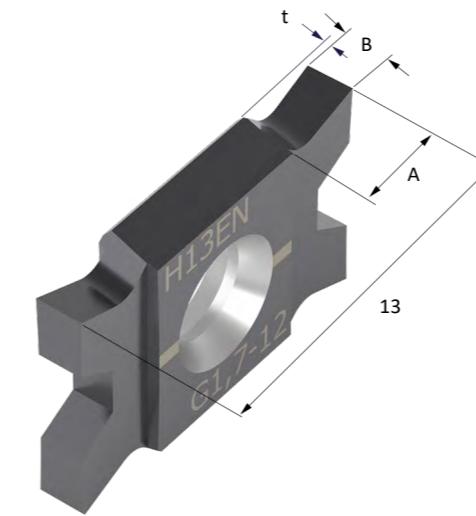
WhizGroove was explicitly designed to manage tight tolerance production - down to the decimal and achieve consistent quality with $\pm 0,01$ tolerance.

WhizCut offers a standard cutting rake of 12 degrees. WhizGroove is available with sharp corner, radius, and full radius.

Range benefits

- Winning combo:** of precise geometries and four sharp cutting edges.
- Precision ground:** all inserts are precision ground on all four edges.
- Your choice:** WhizGroove comes with sharp corners, radius, and full radius.
- Mix it and fix it:** operate WhizGroove together with WhizFix toolholder system and index the inserts in 15 seconds.
- Improve productivity:** with enhanced chip control. We recommend using WhizHip holders, feeding the coolant through the holder.

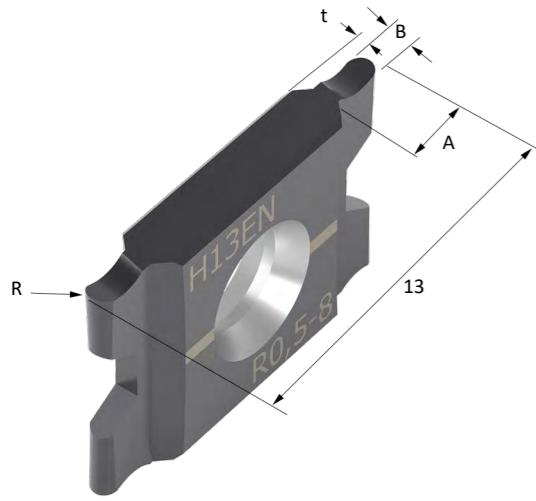
Perfect fit with WhizCut signature toolholders:



Style G | Inserts for grooving, sharp corners

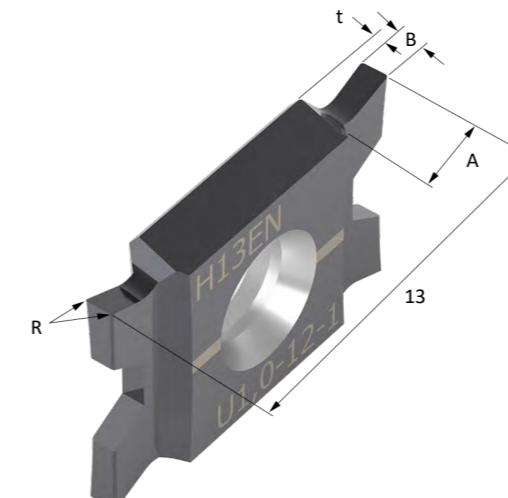
INSERTS	B	MAX A	t	8M	F8	B8	PRICE	STOCK
H13EN G0,1-12	0,1	0,2	1,15	E	-	E	H4	
H13EN G0,2-12	0,2	0,4	1,1	E	-	E	H4	
H13EN G0,25-12	0,25	0,5	1,075	E	-	E	H4	
H13EN G0,3-12	0,3	0,6	1,05	E	-	E	H4	
H13EN G0,35-12	0,35	0,7	1,025	E	-	E	H4	
H13EN G0,4-12	0,4	0,8	1	E	E	E	H4	
H13EN G0,45-12	0,45	0,9	0,975	E	E	E	H4	
H13EN G0,5-12	0,5	1	0,95	E	E	E	H3	
H13EN G0,5-12L	0,5	3	0,95	E	E	E	H3	
H13EN G0,6-12	0,6	1,2	0,9	E	E	E	H3	
H13EN G0,7-12	0,7	1,4	0,85	E	E	E	H3	
H13EN G0,8-12	0,8	1,6	0,8	E	E	E	H3	
H13EN G0,9-12	0,9	1,8	0,75	E	E	E	H3	
H13EN G0,95-12	0,95	1,9	0,725	E	E	E	H3	
H13EN G1,0-12	1	2	0,7	E	E	E	H3	
H13EN G1,0-12L	1	3	0,7	E	E	E	H3	
H13EN G1,05-12	1,05	2,1	0,675	E	E	E	H3	
H13EN G1,10-12	1,1	2,2	0,65	E	E	E	H3	
H13EN G1,15-12	1,15	2,3	0,625	E	E	E	H3	
H13EN G1,25-12	1,25	2,5	0,575	E	E	E	H3	
H13EN G1,3-12	1,3	2,6	0,55	E	E	E	H3	
H13EN G1,35-12	1,35	2,7	0,525	E	E	E	H3	
H13EN G1,45-12	1,45	2,9	0,475	E	E	E	H3	
H13EN G1,5-12	1,5	3	0,45	E	E	E	H3	
H13EN G1,65-12	1,65	3	0,375	E	E	E	H3	
H13EN G1,75-12	1,75	3	0,325	E	E	E	H3	
H13EN G1,9-12	1,9	3	0,25	E	E	E	H3	
H13EN G2,0-12	2	3	0,2	E	E	E	H3	
H13EN G2,05-12	2,05	3	0,175	E	E	E	H3	
H13EN G2,15-12	2,15	3	0,125	E	E	E	H3	

t= from side of holder
to cutting edge.



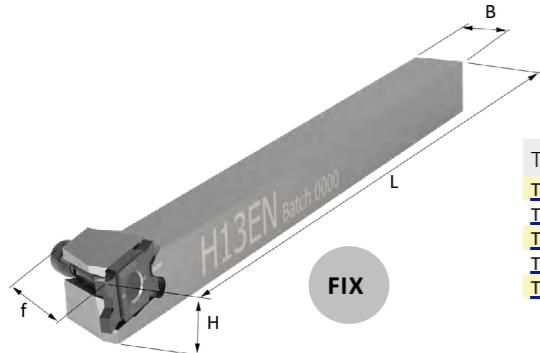
Style R | Inserts for radius grooving

STOCK								
INSERTS	R	B	MAX A	t	8M	F8	B8	PRICE
H13EN R0,15	0,15	0,3	0,6	1,05	E	E	E	H4
H13EN R0,2	0,2	0,4	0,8	1	E	E	E	H4
H13EN R0,25	0,25	0,5	1	0,95	E	E	E	H4
H13EN R0,3	0,3	0,6	1,2	0,9	E	E	E	H4
New! H13EN R0,33	0,33	0,66	1,3	0,87	E	K	E	H4
H13EN R0,35	0,35	0,7	1,4	0,85	E	E	E	H4
H13EN R0,4	0,4	0,8	1,6	0,8	E	E	E	H4
H13EN R0,5	0,5	1	2	0,7	E	E	E	H4
H13EN R0,5L	0,5	1	3	0,7	E	E	E	H4
New! H13EN R0,53	0,53	1,06	2,1	0,67	E	E	E	H4
New! H13EN R0,55	0,55	1,1	2,2	0,65	E	E	E	H4
H13EN R0,6	0,6	1,2	2,4	0,6	E	E	E	H4
H13EN R0,75	0,75	1,5	3	0,45	E	E	E	H4
H13EN R1,0	1	2	3	0,2	E	E	E	H4



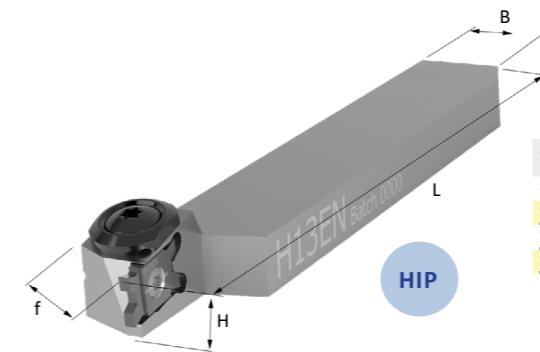
Style U | Inserts for grooving, radius corners

INSERTS	B	MAX A	R	t	8M	F8	B8	NF8	ND8	PRICE	STOCK
H13EN U0,4-12-05	0,4	0,8	0,05	1	E	E	E	-	-	H4	
H13EN U0,45-12-05	0,45	0,9	0,05	0,975	E	E	E	-	-	H4	
H13EN U0,5-12-05	0,5	1	0,05	0,95	E	E	E	-	-	H4	
H13EN U0,6-12-05	0,6	1,2	0,05	0,9	E	E	E	-	-	H4	
H13EN U0,7-12-05	0,7	1,4	0,05	0,85	E	E	E	-	-	H4	
H13EN U0,8-12-05	0,8	1,6	0,05	0,8	E	E	E	K	K	H4	
H13EN U0,9-12-05	0,9	1,8	0,05	0,75	E	E	E	K	K	H4	
H13EN U0,95-12-05	0,95	1,9	0,05	0,725	E	E	E	K	K	H4	
H13EN U1,0-12-05	1	2	0,05	0,7	E	E	E	K	K	H4	
H13EN U1,0-12-1	1	2	0,1	0,7	E	E	E	E	E	H4	
H13EN U1,05-12-1	1,05	2,1	0,1	0,675	E	E	E	K	K	H4	
H13EN U1,10-12-1	1,1	2,2	0,1	0,65	E	E	E	K	K	H4	
H13EN U1,15-12-1	1,15	2,3	0,1	0,625	E	E	E	E	E	H4	
H13EN U1,25-12-1	1,25	2,5	0,1	0,575	E	E	E	K	K	H4	
H13EN U1,3-12-1	1,3	2,6	0,1	0,55	E	E	E	E	E	H4	
H13EN U1,35-12-1	1,35	2,7	0,1	0,525	E	E	E	K	K	H4	
H13EN U1,45-12-1	1,45	2,9	0,1	0,475	E	E	E	K	K	H4	
H13EN U1,5-12-1	1,5	3	0,1	0,45	E	E	E	E	E	H4	
H13EN U1,65-12-1	1,65	3	0,1	0,375	E	E	E	E	E	H4	
H13EN U1,75-12-1	1,75	3	0,1	0,325	E	E	E	E	E	H4	
H13EN U1,9-12-1	1,9	3	0,1	0,25	E	E	E	E	E	H4	
H13EN U2,0-12-1	2	3	0,1	0,2	E	E	E	K	K	H4	
H13EN U2,05-12-1	2,05	3	0,1	0,175	E	E	E	E	E	H4	
H13EN U2,15-12-1	2,15	3	0,1	0,125	E	E	E	E	E	H4	



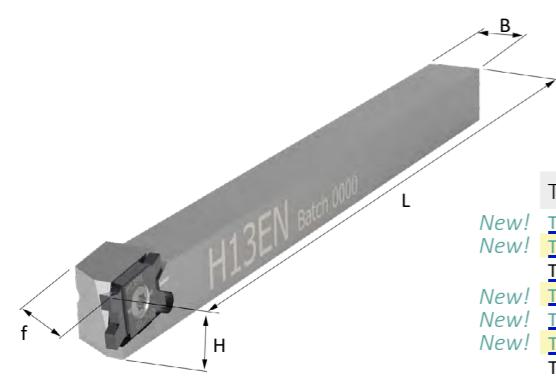
TPH | Toolholders with WhizFix pin type clamping

TOOLHOLDER	H	B	L	f	INSERT	PIN	BIT	STOCK	PRICE
TPH13ER 1010K-0	10	10	125	10	H13	PIN 12	T20	R	A62
TPH13ER 0375K-0	3/8"	3/8"	125	3/8"	H13	PIN 12	T20	R	A62
TPH13ER 1212K-0	12	12	125	12	H13	PIN 12	T20	R	A62
TPH13ER 0500K-0	1/2"	1/2"	125	1/2"	H13	PIN 12	T20	R	A62
TPH13ER 1616K-0	16	16	125	16	H13	PIN 12	T20	R	A63



TSH | Shifted WhizHip toolholders

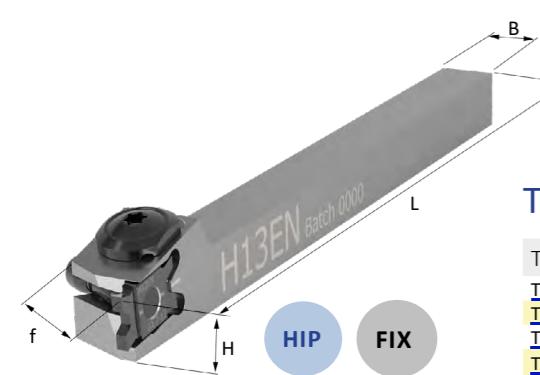
TOOLHOLDER	H	B	L	f	INSERT	SCREW	PLUG	KEY	STOCK	PRICE
TSH13ER 1020H-0C	10	20	125	10	H13	M3X7	M8X1	T9IP	R	A72
TSH13ER 1224K-0C	12	24	125	12	H13	M3X7	1/8" NPT	T9IP	R	A72
TSH13ER 0510K-0C	1/2"	1"	125	1/2"	H13	M3X7	1/8" NPT	T9IP	R	A72
TSH13ER 1632K-0C	16	32	125	16	H13	M3X7	1/8" NPT	T9IP	R	A73



TSH | Toolholders with conventional clamping

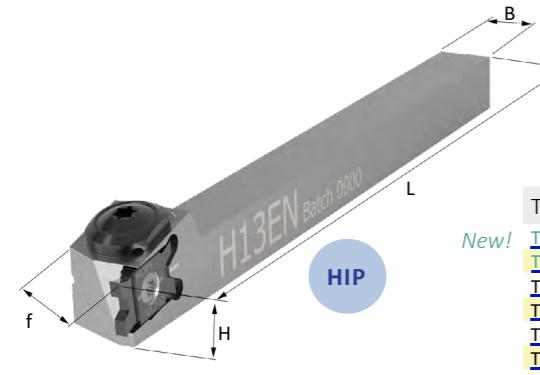
TOOLHOLDER	H	B	L	f	INSERT	SCREW	KEY	STOCK	PRICE
New! TSH13ER/L 88K-0	8	8	125	8	H13	M3X7	T9IP	B	A52
New! TSH13ER/L 1010K-0	10	10	125	10	H13	M3X7	T9IP	B	A52
TSH13ER 0375K-0	3/8"	3/8"	125	3/8"	H13	M3X7	T9IP	R	A52
New! TSH13ER/L 1212K-0	12	12	125	12	H13	M3X7	T9IP	B	A52
New! TSH13ER/L 0500K-0	1/2"	1/2"	125	1/2"	H13	M3X7	T9IP	B	A52
New! TSH13ER/L 1616K-0	16	16	125	16	H13	M3X7	T9IP	B	A53
TSH13ER 0750K-0	3/4"	3/4"	125	3/4"	H13	M3X7	T9IP	R	A54
TSH13ER 2020K-0	20	20	125	20	H13	M3X7	T9IP	R	A54
TSH13ER 2525M-0	25	25	150	25	H13	M3X7	T9IP	R	A55
TSH13ER 1000M-0	1"	1"	150	1"	H13	M3X7	T9IP	R	A55

New left hand holders.



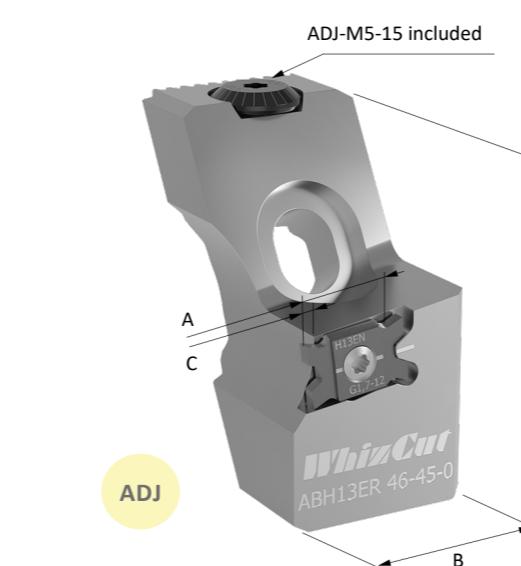
TPH | WhizHip pin type toolholders for high pressure coolant

TOOLHOLDER	H	B	L	f	INSERT	PIN	PLUG	BIT	STOCK	PRICE
TPH13ER 1010H-0C	10	10	100	10	H13	PIN12	M8X1	T20	R	A82
TPH13ER 1010K-0C	10	10	125	10	H13	PIN12	M8X1	T20	R	A82
TPH13ER 0375K-0C	3/8"	3/8"	125	3/8"	H13	PIN12	M8X1	T20	R	A82
TPH13ER 1212K-0C	12	12	125	12	H13	PIN12	1/8" NPT	T20	R	A82
TPH13ER 0500K-0C	1/2"	1/2"	125	1/2"	H13	PIN12	1/8" NPT	T20	R	A82
TPH13ER 1616K-0C	16	16	125	16	H13	PIN12	1/8" NPT	T20	R	A83



TSH | WhizHip toolholders for high pressure coolant

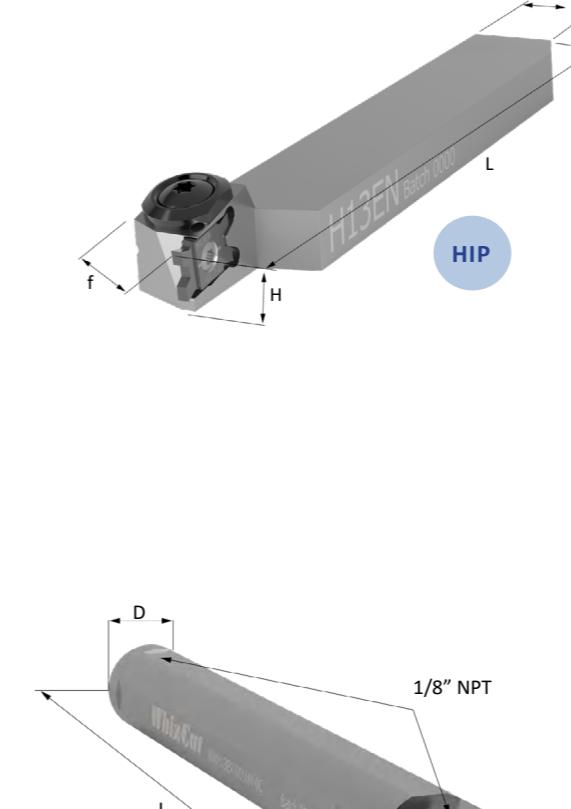
TOOLHOLDER	H	B	L	f	INSERT	SCREW	PLUG	KEY	STOCK	PRICE
New! TSH13ER/L 88H-0C	8	8	100	10	H13	M3X7	M5X0,8	T9IP	R	A73
TSH13ER 88K-0C	8	8	125	10	H13	M3X7	M5X0,8	T9IP	R	A73
TSH13ER 1010H-0C	10	10	100	10	H13	M3X7	M8X1	T9IP	R	A72
TSH13ER 1010K-0C	10	10	125	10	H13	M3X7	M8X1	T9IP	R	A72
TSH13ER 0375K-0C	3/8"	3/8"	125	3/8"	H13	M3X7	M8X1	T9IP	R	A72
TSH13ER 1212K-0C	12	12	125	12	H13	M3X7	1/8" NPT	T9IP	R	A72
TSH13ER 0500K-0C	1/2"	1/2"	125	1/2"	H13	M3X7	1/8" NPT	T9IP	R	A72
TSH13ER 1616K-0C	16	16	125	16	H13	M3X7	1/8" NPT	T9IP	R	A73



ABH | WhizAdjust toolholder

TOOLHOLDER HEAD	H	B	A	C MAX DOC	MAX FEED LENGTH	INSERT TYPE	CLAMPING SCREW	KEY	STOCK	PRICE
ABH13ER-46-45-0	46	24	11	3	45	H13	M3X7	T9IP	R	D55

For more information and shanks see WhizAdjust page 50.
A is measurement from cutting edge to the centre of shank.



WRH | Round shank WhizHip holders

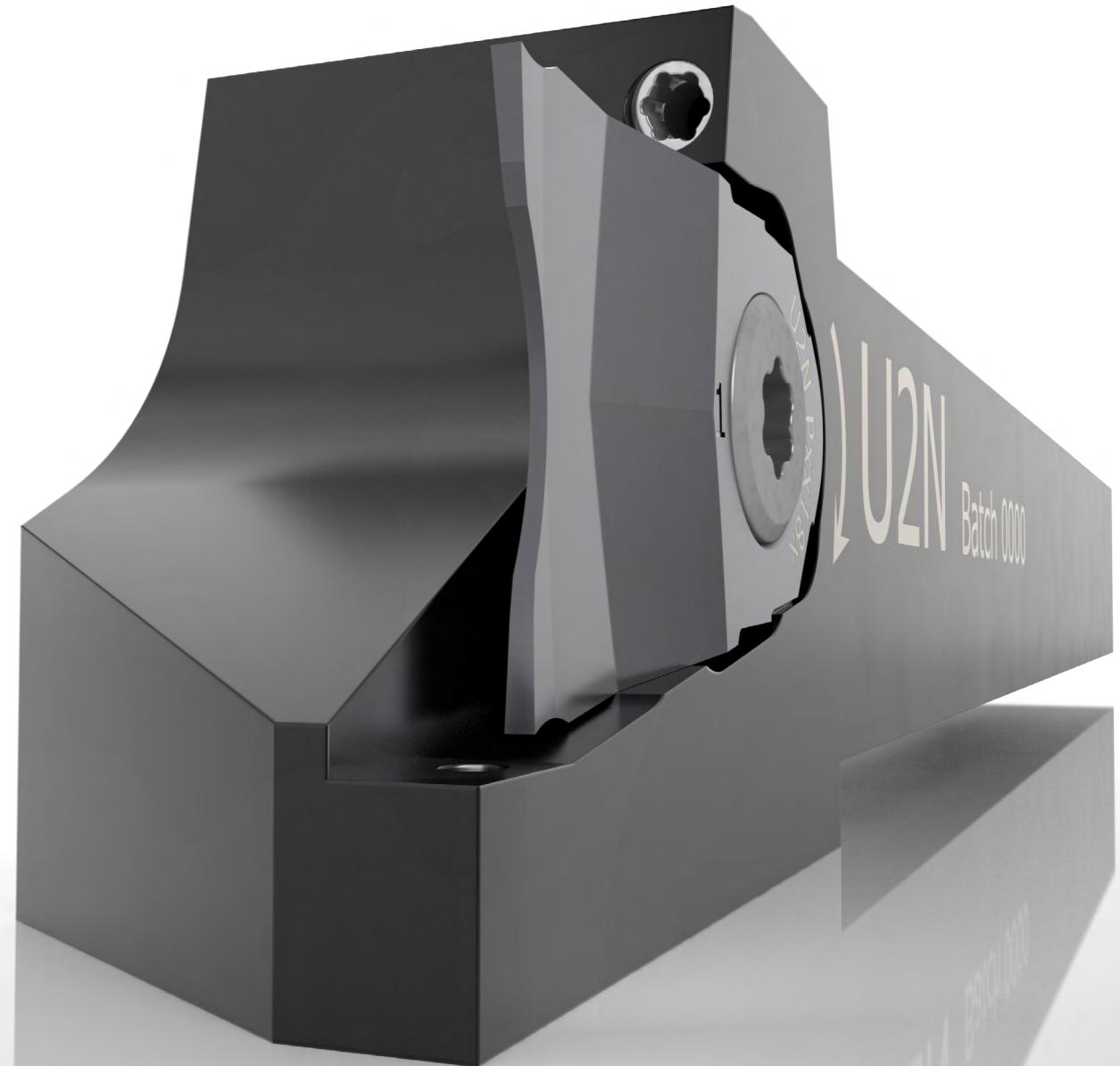
TOOLHOLDER	D	A	L	I	INSERT	PLUG	SCREW	KEY	STOCK	PRICE
WRH13ER 0625M-0C	5/8"	10	150	40	H13	1/8" NPT	M3X7	T9IP	R	A72
WRH13ER 0016M-0C	16	10	150	40	H13	1/8" NPT	M3X7	T9IP	R	A72
WRH13ER 0750M-0C	3/4"	10	150	40	H13	1/8" NPT	M3X7	T9IP	R	A72
WRH13ER 0020M-0C	20	10	150	40	H13	1/8" NPT	M3X7	T9IP	R	A72
WRH13ER 0022M-0C	22	10	150	40	H13	1/8" NPT	M3X7	T9IP	R	A73
WRH13ER 0025M-0C	25	10	150	40	H13	1/8" NPT	M3X7	T9IP	R	A73
WRH13ER 1000M-0C	1"	10	150	40	H13	1/8" NPT	M3X7	T9IP	R	A73

A is measurement from cutting edge to the centre of shank.

TWIN-EDGED PARTING OFF

WhizTwin

The power and strength is where it needs to be – times two. WhizCut has re-invented the parting off insert for the future: WhizTwin is a bold new insert that helps reduce waste material and has a cutting edge stability.





WhizTwin, double it, and its a win win

The patent pending design of WhizTwin generates a cutting edge stronger than any other and a stability not seen before. The strength and increased stability of the cutting edge is maximized with two cutting edges at the front. This lets the toolholder be clamped in a more stable position with a shorter overhang from the toolholder plate- reducing instability and vibrations which are the main challenges when parting off. Less material waste – less costs. The narrow insert allows you to lower your production cost as you save material using it. Removing less bar material is great for you and also for the environment. It's a win win – with WhizTwin.

Range benefits

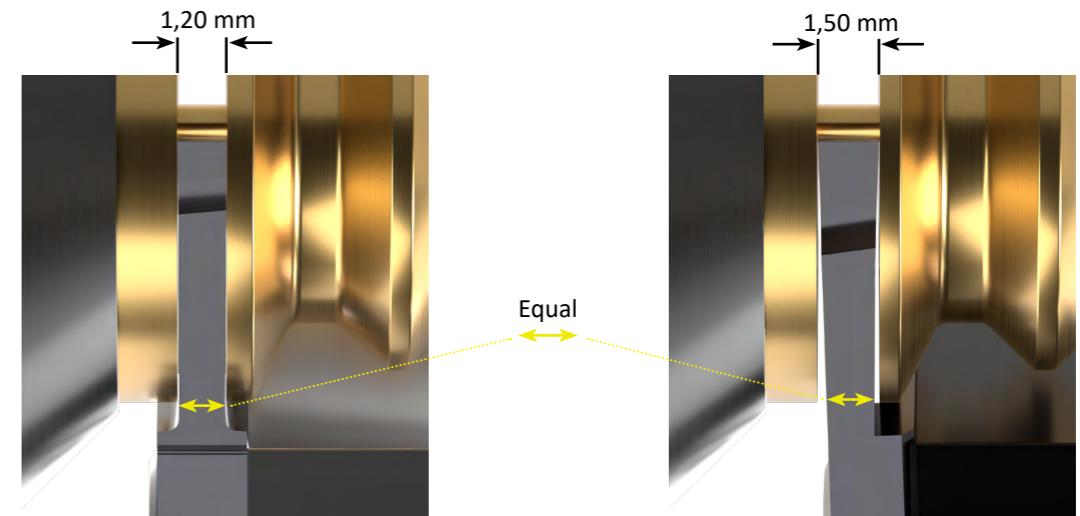
- **More stability, less vibrations:** with two cutting edges at the front. The holder can be clamped closer to the tool plate.
- **Longer tool life:** thanks to the stability of the insert and cutting edge.
- **Control those chips:** with a choice of four different chip control and cutting rakes to optimize performance for most materials.
- **Save material and barstock:** as the WhizTwin insert is more stable than ordinary parting off inserts, it is possible to use a more narrow part off.
- **Full range and same inserts for right and left:** The same insert can be used in a right hand and left hand holder. WhizTwin offers parting off/grooving tools with choices from width of 0,3 mm.
- **New carbide grade 7:** is an outstanding carbide grade that is extremely hard and tough. Available in all five grades: 7M, F7, B7, T7, ND7.

Perfect fit with WhizCut signature toolholders:

HIP



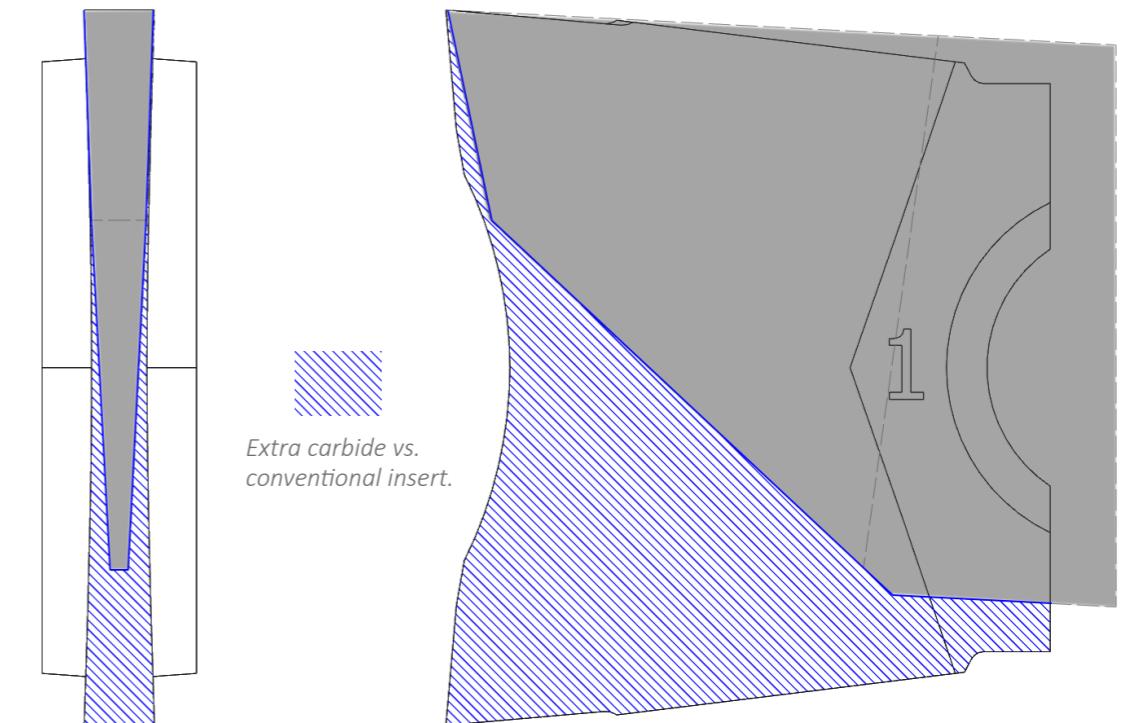
Index from both sides of the holder, as the WhizTwin screw has a double torx.



WhizTwin insert: optimizes cutting geometry and relief around and under the cutting edge which boosts mass and stability. The stability of a WhizTwin 1,2 mm part off insert achieves the same width as a 1,5 mm from the top and the strength is considerably stronger below the cutting edge.

Strong, fast and tough

The WhizTwin design utilizes the two cutting edges to build up extra strength under and around the cutting edge. Get longer tool life and more stable parting off – the patent pending design gives the WhizTwin insert a bigger carbide mass under the cutting edge. A 1,2 mm insert is considerably stronger than a 1,5 mm conventional insert. The strength of a 1 mm part off is the same as a 1,5 mm conventional. WhizTwin represents a new range of grades developed for more powerful machines and tougher materials, grade 7.



Stability all the way to the front. By having both cutting edges at the front of the insert the mass from the below cutting side gives stability to the upper cutting edge.

WhizGuide

Get the most out of WhizTwin

NEW!

1. Straight or angled part off

- Style P: 0° gives the strongest tool. Suitable with use of sub spindle.
- Style Z: 15° Suitable to be used without a sub spindle or when parting off with the centre hole.

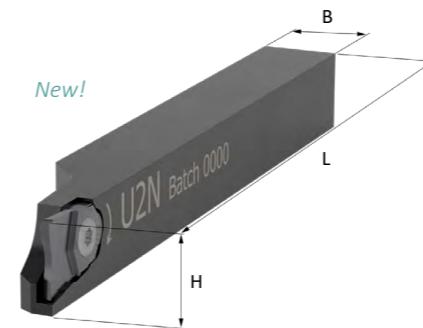
2. Cutting rake options



- 2° for short-chipping materials, and very small parts.
- 7° for steel and other tough materials when an aggressive chip breaker is needed.
- 12° The best overall choice. For long-chipping materials, and strong enough for tough materials.
- 18° for sticky long-chipping materials and materials where there is a risk of a built up edge.

3. Make it stable

- Clamp the tool holder so the cutting edge is as close to the tool plate as your setup can allow.
- Choose as short MAX Ø insert as possible.
- Use the Tool holder



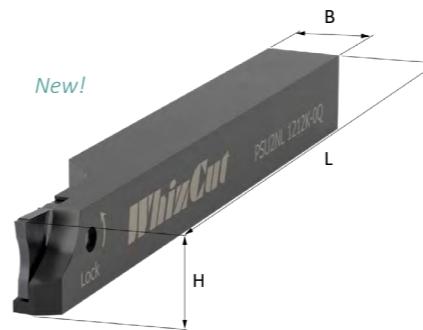
Style B | Right hand - narrow front

TOOLHOLDER	H	B	L	f	INSERT	SCREW	KEY	STOCK	PRICE
PSU2NR 88K-0B	8	8	125	5	U2N	M4X5-RU	T9IP	R	A63
PSU2NR 1010K-0B	10	10	125	5	U2N	M4X5-RU	T9IP	R	A63
PSU2NR 1212K-0B	12	12	125	5	U2N	M4X5-RU	T9IP	R	A63
PSU2NR 0500K-0B	1/2"	1/2"	125	5	U2N	M4X5-RU	T9IP	R	A63
PSU2NR 1616K-0B	16	16	125	5	U2N	M4X5-RU	T9IP	R	A64
PSU2NR 2020K-0B	20	20	150	10	U2N	M4X5-RU	T9IP	R	A64



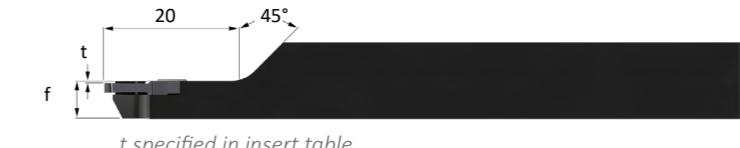
4. WhizTwin nomenclature

- U2NR Z1,0J-12R
- U2 = insert size
- N = Neutral, NR = Neutral insert right hand geometry
- P/Z front angle
- 1,0 = Cutting width
- Max part off B = 4, C = 6,4, E = 8, G = 10, J = 13
- 12 Cutting rake
- R = Radius



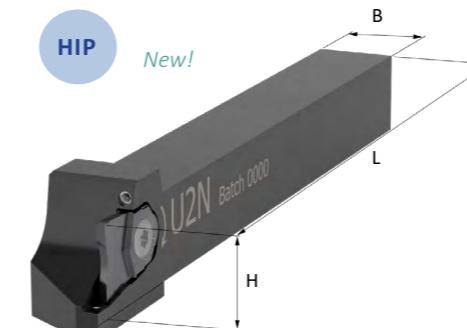
Style Q | Left hand - shifted insert

TOOLHOLDER	H	B	L	f	INSERT	SCREW	KEY	STOCK	PRICE
PSU2NL 88K-QQ	8	8	125	5	U2N	M4X5-RU	T9IP	L	A63
PSU2NL 1010K-QQ	10	10	125	5	U2N	M4X5-RU	T9IP	L	A63
PSU2NL 1212K-QQ	12	12	125	6	U2N	M4X5-RU	T9IP	L	A63
PSU2NL 0500K-QQ	1/2"	1/2"	125	1/4"	U2N	M4X5-RU	T9IP	L	A63
PSU2NL 1616K-QQ	16	16	125	8	U2N	M4X5-RU	T9IP	L	A64



Style P | Straight grooving and parting off

INSERT	B	C-RAKE	R	MAX Ø	t	STOCK					
						7M	F7	B7	T7	ND7	PG
U2N P0,3B-12	0,3	12°	0	4	0,95	E	-	E	-	-	A6
U2N P0,5C-2	0,5	2°	0	6,4	0,85	E	E	E	-	-	A5
U2N P0,5C-12	0,5	12°	0	6,4	0,85	E	E	E	-	-	A5
U2N P0,5C-18	0,5	18°	0	6,4	0,85	E	E	E	K	-	A5
U2N P0,5E-12	0,5	12°	0	8	0,85	E	E	E	-	-	A5
U2N P1,0G-7R	1	7°	0,05	10	0,6	-	-	-	-	E	A6
U2N P1,0G-12R	1	12°	0,05	10	0,6	E	E	E	-	E	A6
U2N P1,0I-2	1	2°	0	13	0,6	E	E	E	-	K	A5
U2N P1,0I-7R	1	7°	0,05	13	0,6	-	-	-	-	E	A6
U2N P1,0I-12	1	12°	0	13	0,6	E	E	E	-	E	A5
U2N P1,0I-12R	1	2°	0,05	13	0,6	-	-	-	-	E	A6
U2N P1,0I-18	1	18°	0	13	0,6	E	E	E	K	-	A5
U2N P1,5I-7R	1,5	7°	0,05	13	0,35	-	-	-	-	E	A5
U2N P1,5I-12	1,5	12°	0	13	0,35	E	E	E	-	-	A4
U2N P1,5I-12R	1,5	12°	0,05	13	0,35	-	-	-	-	E	A5
U2N P1,5I-18	1,5	18°	0	13	0,35	E	E	E	K	-	A4
U2N P2,0I-7R	2	7°	0,05	13	0,1	-	-	-	-	E	A5
U2N P2,0I-12	2	12°	0	13	0,1	E	E	E	-	-	A4
U2N P2,0I-12R	2	12°	0,05	13	0,1	-	-	-	-	E	A5
U2N P2,0I-18	2	18°	0	13	0,1	E	E	E	K	-	A4



Style C | Right and left hand - coolant through

TOOLHOLDER	H	B	L	INSERT	PLUG	SCREW	KEY	STOCK	PRICE
* PSU2NR/L 88H-0C	8	8	100	U2N	M5X0,8	M4X5-RU	T9IP	A	A82
PSU2NR/L 1010H-0C	10	10	100	U2N	M8X1	M4X5-RU	T9IP	A	A82
PSU2NR/L 1212H-0C	12	12	100	U2N	1/8 NPT	M4X5-RU	T9IP	A	A82
PSU2NR/L 0500H-0C	1/2"	1/2"	100	U2N	1/8 NPT	M4X5-RU	T9IP	A	A82
PSU2NR/L 1616H-0C	16	16	125	U2N	1/8 NPT	M4X5-RU	T9IP	A	A83

*Only 1 coolant exit from above.
Right hand holders has coolant inlet on opposite side of the insert.
Left hand holders has coolant inlet on insert side.



Setup tip: use toolholder as probing/bar stop surface. Cut off position = t+cut off width

Style Z | 15° parting off

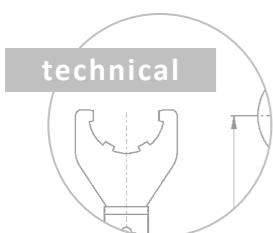
INSERT	B	C-RAKE	R	MAX Ø	t	STOCK					
						7M	F7	B7	T7	ND7	PG
U2NR Z0,5C-12	0,5	12°	0	6,4	0,85	F	F	F	-	-	A6
U2NR Z0,5C-2	0,5	2°	0	6,4	0,85	F	F	F	-	-	A6
U2NR Z0,5E-12	0,5	12°	0	8	0,85	F	F	F	-	-	A6
U2NR Z0,5E-18	0,5	18°	0	8	0,85	F	F	F	K	-	A6
U2NR Z1,0I-12	1	12°	0	12,7	0,6	F	F	F	-	F	A6
U2NR Z1,0I-12R	1	12°	0,05	12,7	0,6	F	F	F	-	F	A6
U2NR Z1,0I-18	1	18°	0	12,7	0,6	F	F	F	K	-	A6
U2NR Z1,0I-2	1	2°	0	12,7	0,6	F	F	F	-	-	A6
U2NR Z1,0I-7	1	7°	0	12,7	0,6	-	-	-	-	F	A6
U2NR Z1,5I-12											

HEIGHT ADJUSTABLE TOOLHOLDERS

WhizAdjust

Take back working to a new level with WhizAdjust and enjoy the flexibility. An innovative and patented toolholder system that is perfect for turning against the sub spindle. The height adjustment goes quick and easy – without loss of stability.



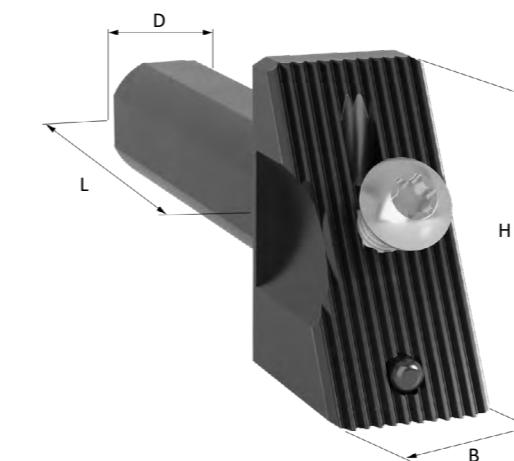


WhizAdjust - for perfecting centre height

Fine-tune your way into the future of backworking, with the patented toolholder system WhizAdjust. An adjustable toolholder system from WhizCut, with quick height adjustment and no loss of stability. The quick: The fine-tune adjustment screw together with stable clamping makes it possible to modify centre height. Loosen one clamping screw from the WhizAdjust head and shank – and the adjustment can be done. It is as easy as that. The stable: The shank and adjustable head are positioned together with serrated surfaces in X- axis and the adjustment screw plus a spring in Y. The repeatability, by releasing the toolholder and fastening it again, is under 0,005 mm.

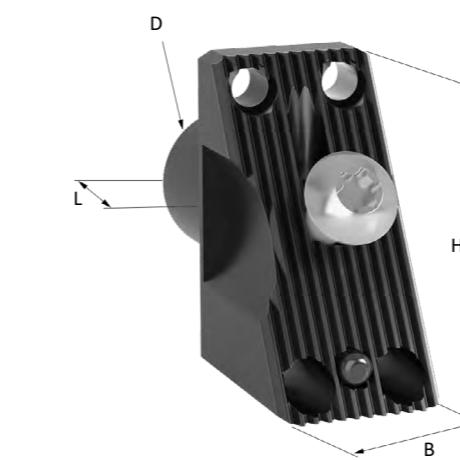
Range benefits

- Quick release and easy to adjust:** Only one adjustment screw and clamping screw is needed to change centre height.
- Rigid toolholder:** with slanted and serrated connection surfaces.
- Combine adjustable heads:** use the same shank for multiple adjustable heads: WhizCut, WhizThread and WhizGroove.
- Precise adjustment:** +/- 0,02 per line. Fine tuning and repeatability down to 0,005 mm.



Toolholder shank

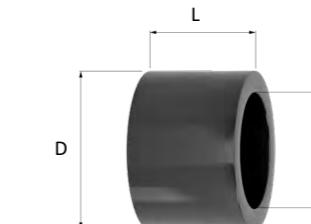
TOOLHOLDER SHANK	D	L	H	B	FLATS	SCREW	BIT	STOCK	PRICE
AB4624 D0625J	5/8"	80	46	24	4	M8X16	T40	R	D75
AB4624 D0750J	3/4"	80	46	24	4	M8X16	T40	R	D75
AB4624 D1000J	1"	80	46	24	4	M8X16	T40	R	D75
AB4624 D16J	16	80	46	24	4	M8X16	T40	R	D75
AB4624 D20J	20	80	46	24	4	M8X16	T40	R	D75
AB4624 D22J	22	80	46	24	4	M8X16	T40	R	D75
AB4624 D25J	25	80	46	24	4	M8X16	T40	R	D75



Toolholder shank - front clamping

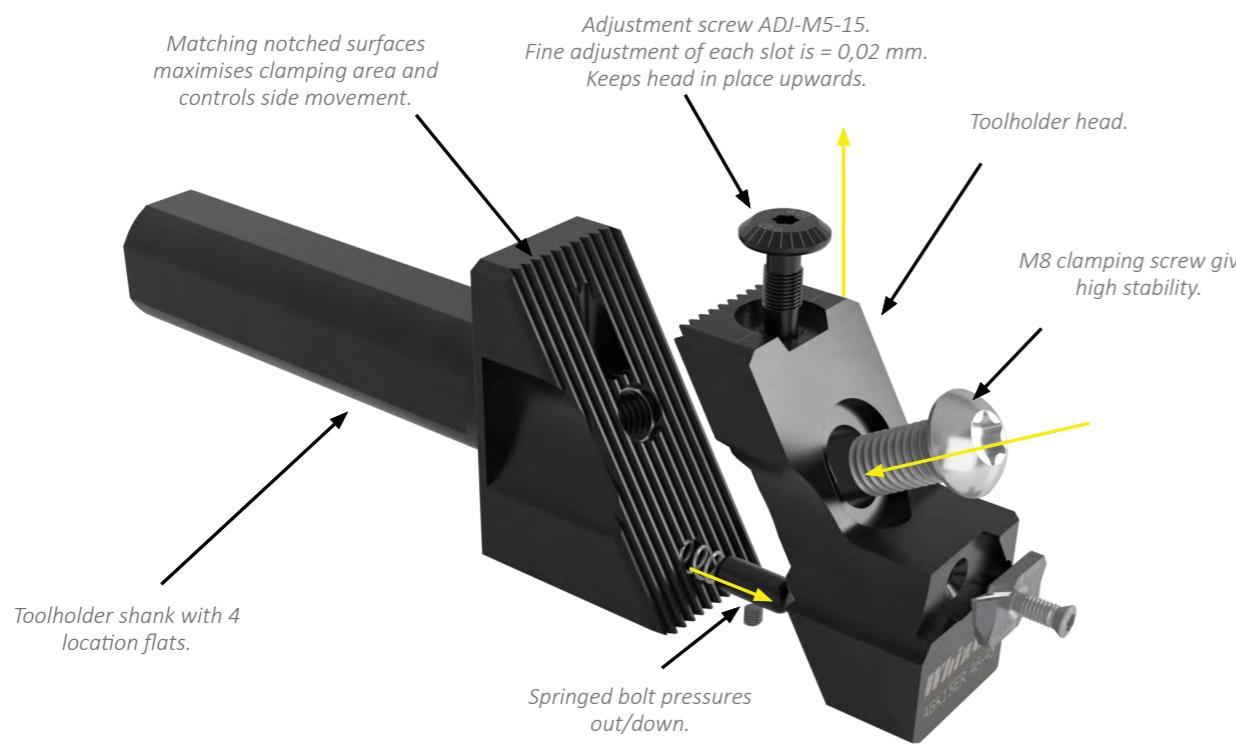
TOOLHOLDER SHANK	D	L	H	B	HOLE POSITION	SCREW	BIT	STOCK	PRICE
AB4624-S38D16	16+22	15	6	24	38/14	M8X16	T40	R	D75

Note: All front clamping holders come with 16 mm shank plus 22 mm sleeve.

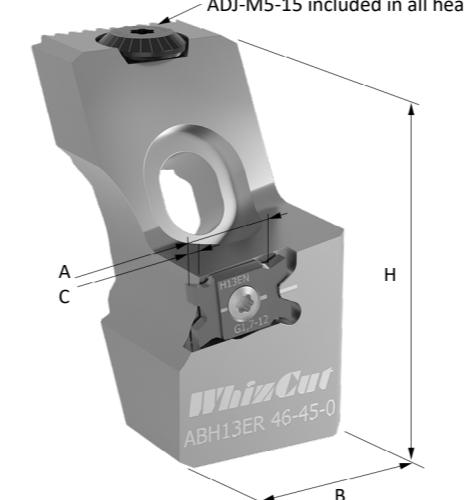
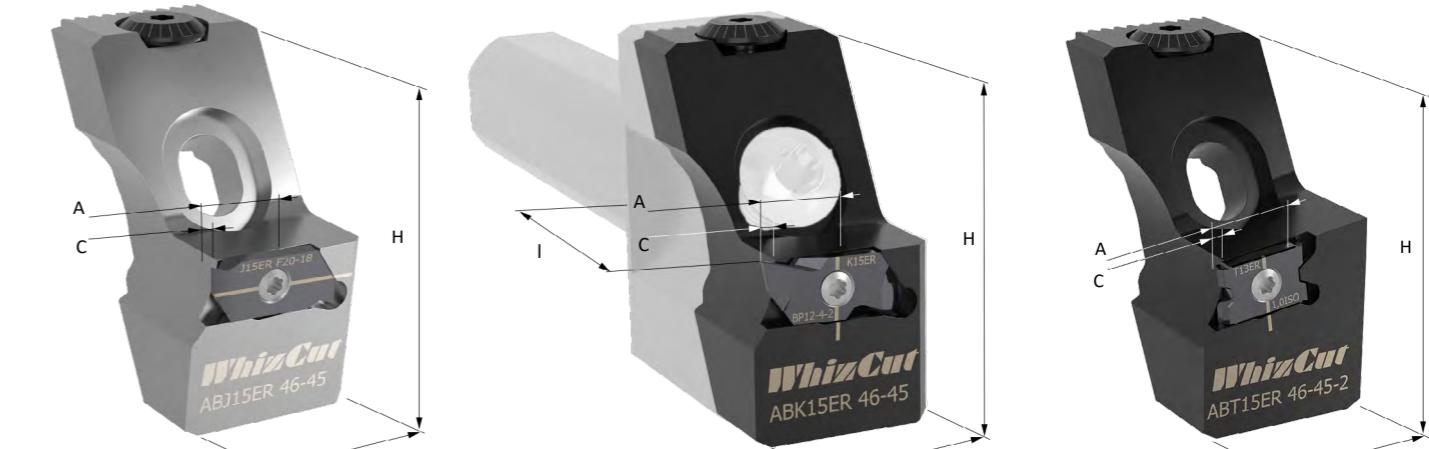


SHANK SLEEVES	D	d	L	PRICE
AT0750-16-15	3/4"	16	15	D3
AT1000-16-15	1"	16	15	D3
AT20-16-15	20	16	15	D3
AT22-16-15	22	16	15	D3
AT25-16-15	25	16	15	D3

WhizGuide functions of the WhizAdjust holder



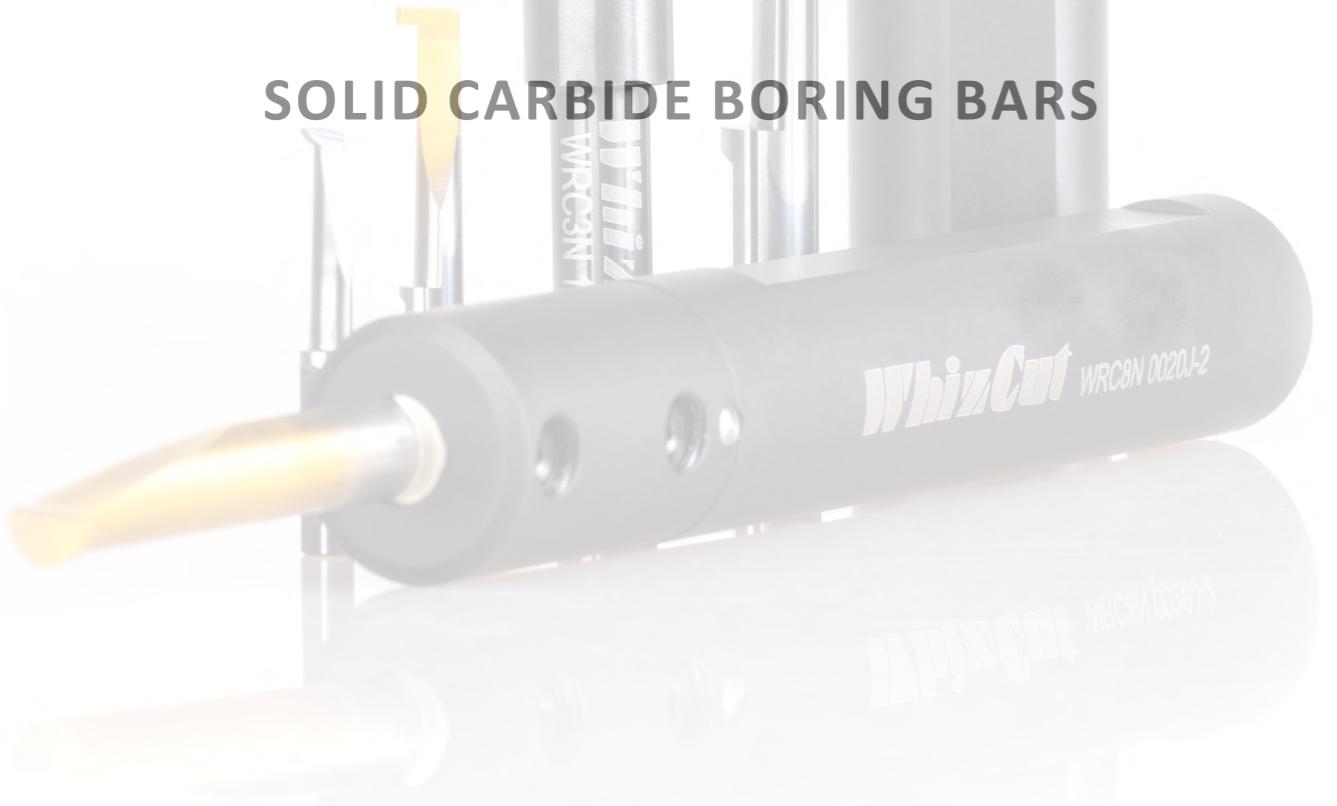
Please note. Due to the slant in the holder if a movement in Y is 0,01 mm then movement in Z will be 0,006.



Toolholder adjustable head

TOOLHOLDER HEAD	H	B	A	C MAX DOC	I WITH SHANK	INSERT TYPE	SCREW	KEY	STOCK	PRICE
ABH13ER-46-45-0	46	24	11	3	45	H13	M3X7	T9IP	R	D55
ABT13ER-46-45-2	46	24	10	2	45	T13ER/EN	M3X7	T9IP	R	D55
ABT13ER-46-45-4	46	24	10	2	45	T13ER/EN	M3X7	T9IP	R	D55
ABJ15ER-46-45	46	24	10	2	45	J15ER	M3X7	T9IP	R	D55
ABK15ER-46-45	46	24	12	4	45	K15ER	M3X7	T9IP	R	D55

Note: 1. A is distance from cutting edge to the centre of toolholder.
2. Difference between -2 and -4 WhizThread is the α° of the insert pocket.

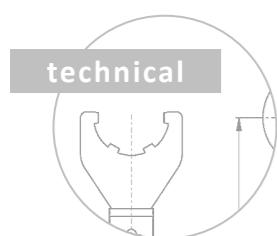


SOLID CARBIDE BORING BARS

WhizIn

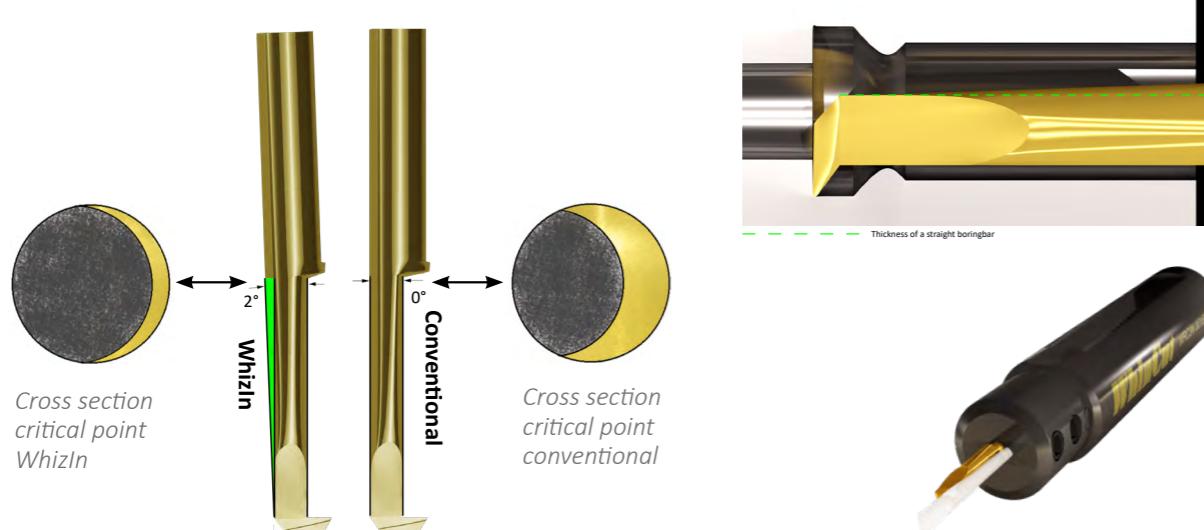
We clamp it inclined and you get a tool unlike anything ever experienced before. WhizIn toolholders have the carbide bar mounted at an angle to create more stability. WhizIn improves productivity, by better surface finish and increased tool life.





WhizIn - angled for better productivity

Consistent, strong and stable. A WhizIn boring bar has up to 50 percent more material at the critical point compared to a conventional boring bar. The boring bar is clamped into the toolholder at an angle and the boring bar grows thicker with the length of the bar. Minimal grinding is required which results in less grinding stress and a more consistent tool for you.



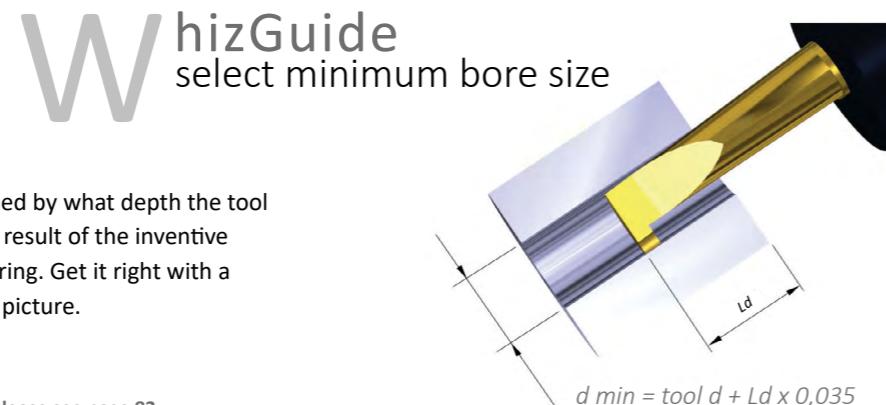
Range benefits

- Unique chip control geometries:** control down to the smallest dimensions.
- Increased tool life:** the added material at the crucial points gives a greatly improved tool life.
- Improved surface finish:** thanks to the additional material and stability.
- Wide range:** a wide selection of toolholders, some with coolant through.

Perfect conditions for high pressure coolant. The boring bar is mounted in a 2° angle in the toolholder, and a natural incline angle is achieved.

- Coolant through:** ideal for high pressure coolant. Read more on page 76.
- Secure and stable:** with double screws.
- Special toolholder designs:** for Swiss type automatic lathes.
- Self locating system:** when clamping within 30° the boring bar rotates itself into a correct position in the toolholder

The WhizIn toolholder

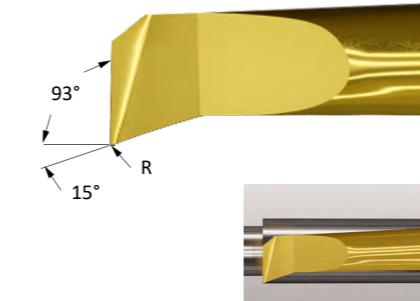


Minimum bore size

The minimum bore size is determined by what depth the tool goes into the smaller hole. This is a result of the inventive angular mounting of the WhizIn boring. Get it right with a simple calculation, as shown in the picture.

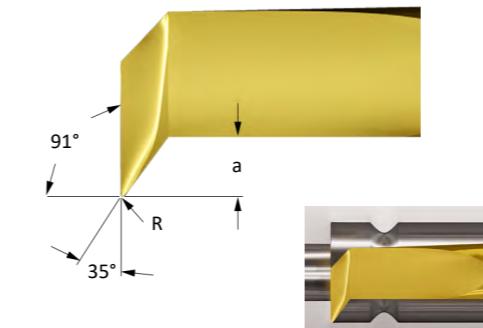
For recommended cutting data WhizIn, please see page 83.

Please note: WhizIn boring bars are only compatible with WhizIn toolholders.



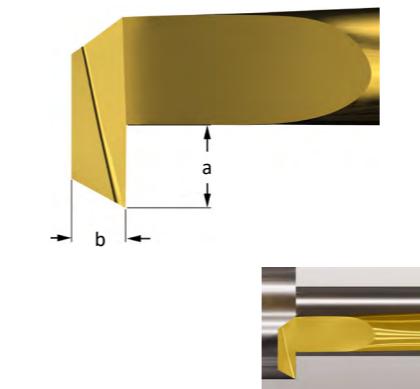
Style J | Boring bars for turning

BORING BAR	D	d	C. RAKE	R	f	L	I	10M	C10	F10	B10	PRICE
C31NR J8-0	3	0,8	8°	0	0,4	24	4	B	K	B	B	B4
C314NR J8-0	3	1,4	8°	0	0,7	24	4	B	K	B	B	B4
C32NR J8-0	3	1,6	8°	0	0,8	24	7	B	K	B	B	B3
C32NR J16-0	3	1,6	16°	0	0,8	24	7	B	K	B	B	B3
C33NR J8-0	3	2,2	8°	0	1,1	24	10	B	K	B	B	B3
C33NR J16-0	3	2,2	16°	0,0	1,1	24	10	B	K	B	B	B3
C33NR J8-1	3	2,2	8°	0,1	1,1	24	10	B	K	B	B	B4
C33NR J16-1	3	2,2	16°	0,1	1,1	24	10	B	K	B	B	B4
C34NR J8-0	3	3	8°	0	1,5	24	12	B	K	B	B	B2
C34NR J16-0	3	3	16°	0	1,5	24	12	B	K	B	B	B2
C34NR J8-1	3	3	8°	0,1	1,5	24	12	B	K	B	B	B3
C34NR J16-1	3	3	16°	0,1	1,5	24	12	B	K	B	B	B3
C4NR J8-0	4	4	8°	0	2	32	16,5	B	K	B	B	B3
C4NR J16-0	4	4	16°	0	2	32	16,5	B	K	B	B	B3
C4NR J8-1	4	4	8°	0,1	2	32	16,5	B	K	B	B	B4
C4NR J16-1	4	4	16°	0,1	2	32	16,5	B	K	B	B	B4
C5NR J8-0	5	5	8°	0	2,5	40	21	B	K	B	B	B4
C5NR J16-0	5	5	16°	0	2,5	40	21	B	K	B	B	B4
C5NR J8-1	5	5	8°	0,1	2,5	40	21	B	K	B	B	B5
C5NR J16-1	5	5	16°	0,1	2,5	40	21	B	K	B	B	B5
C6NR J8-0	6	6	8°	0	3	48	26	B	K	B	B	B6
C6NR J16-0	6	6	16°	0	3	48	26	B	K	B	B	B6
C6NR J8-1	6	6	8°	0,1	3	48	26	B	K	B	B	B7
C6NR J16-1	6	6	16°	0,1	3	48	26	B	K	B	B	B7
C8NR J8-0	8	8	8°	0	4	72	45	B	K	B	B	B10
C8NR J16-0	8	8	16°	0	4	72	45	B	K	B	B	B10
C8NR J8-1	8	8	8°	0,1	4	72	45	B	K	B	B	B11
C8NR J16-1	8	8	16°	0,1	4	72	45	B	K	B	B	B11



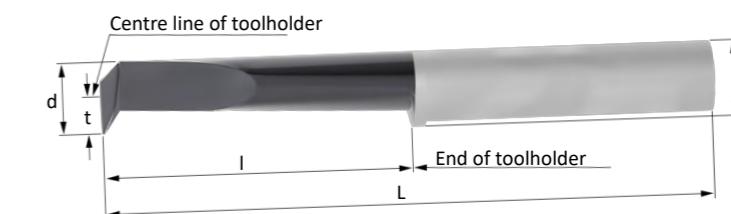
Style V | Boring bars for copy turning

BORING BAR	D	d	C. RAKE	a	R	f	L	I	10M	C10	F10	B10	PRICE
C32NR V8	3	1,6	8°	0,5	0,05	0,8	24	7	B	K	B	B	B3
C33NR V8	3	2,2	8°	0,7	0,07	1,1	24	10	B	K	B	B	B3
C3NR V8	3	3	8°	1	0,1	1,5	24	12	B	K	B	B	B3
C4NR V8	4	4	8°	1,4	0,15	2	32	16,5	B	K	B	B	B4
C5NR V8	5	5	8°	1,7	0,2	2,5	40	21	B	K	B	B	B5
C6NR V8	6	6	8°	2	0,25	3	48	26	B	K	B	B	B7
C8NR V8	8	8	8°	2,7	0,3	4	72	45	B	K	B	B	B11



Style B | Boring bars for back turning

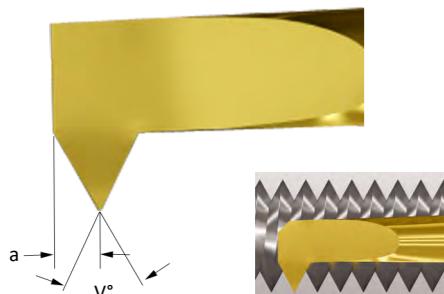
BORING BAR	D	d	a	b	f	L	I	10M	C10	F10	B10	PRICE
C3NR B12-1-0	3	3	1	0,75	1,5	24	11	B	K	B	B	B4
C4NR B12-1,4-0	4	4	1,4	1	2	32	16,5	B	K	B	B	B5
C5NR B12-1,7-0	5	5	1,7	1,25	2,5	40	21	B	K	B	B	B6
C6NR B12-2-0	6	6	2	1,5	3	48	27	B	K	B	B	B8
C8NR B12-2,7-0	8	8	2,7	1,8	4	72	45	B	K	B	B	B12



For recommended cutting data WhizIn, please see page 83.

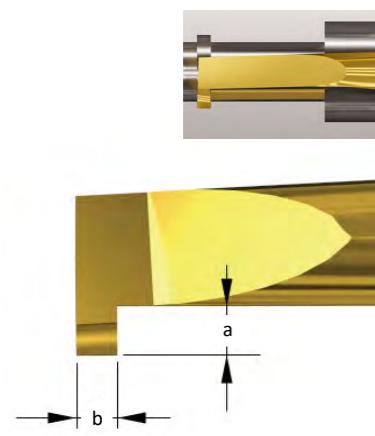
For stock status definitions see page 7.

Style T | Boring bars for threading



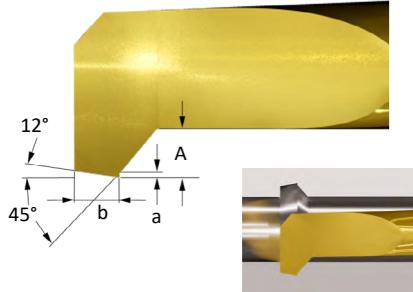
BORING BAR	D	d	PITCH	V°	a	f	L	I	STOCK				PRICE
									10M	C10	F10	B10	
C31NR T60	3	0,8	0,2-0,4	60	0,2	0,5	24	4	B	K	B	B	B4
C32NR T60	3	1,6	0,2-0,6	60	0,3	0,75	24	7	B	K	B	B	B3
C33NR T60	3	2,2	0,2-0,8	60	0,4	1,25	24	10	B	K	B	B	B3
C34NR T60	3	3	0,2-1,0	60	0,5	1,5	24	12	B	K	B	B	B2
C4NR T60	4	4	0,25-1,25	60	0,6	2	32	16,5	B	K	B	B	B3
C4NR T55	4	4	0,25-1,25	55	0,6	2	32	16,5	B	K	B	B	B3
C5NR T60	5	5	0,25-1,5	60	0,7	2,5	40	21	B	K	B	B	B4
C6NR T60	6	6	0,25-1,75	60	0,8	3	48	27	B	K	B	B	B5
C6NR T55	6	6	0,25-1,75	55	0,8	3	48	27	B	K	B	B	B5
C8NR T60	8	8	0,35-2,5	60	1,2	4	72	45	B	K	B	B	B10

Style G | Boring bars for straight grooves



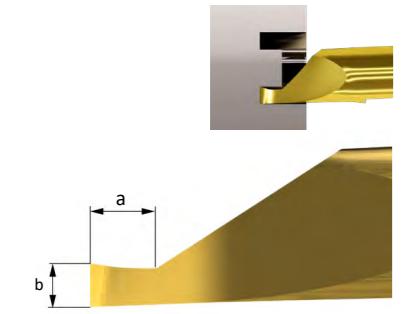
BORING BAR	D	d	b	a	f	L	I	STOCK				PRICE
								10M	C10	F10	B10	
C31NR G0,2	3	0,8	0,2	0,3	0,4	24	4	B	K	B	B	B4
C32NR G0,3	3	1,6	0,3	0,5	0,8	24	7	B	K	B	B	B4
C33NR G0,5	3	2,2	0,5	0,7	1,1	24	10	B	K	B	B	B4
C34NR G0,2	3	3	0,2	0,3	1,5	24	12	B	K	B	B	B3
C34NR G0,5	3	3	0,5	0,8	1,5	24	12	B	K	B	B	B3
C34NR G0,8	3	3	0,8	1,0	1,5	24	12	B	K	B	B	B3
C34NR G1,0	3	3	1,0	1,0	1,5	24	12	B	K	B	B	B3
C4NR G0,5	4	4	0,5	0,8	2	32	16,5	B	K	B	B	B4
C4NR G1,0	4	4	1,0	1,3	2	32	16,5	B	K	B	B	B4
C5NR G0,5	5	5	0,5	0,8	2,5	40	21	B	K	B	B	B5
C5NR G1,0	5	5	1,0	1,5	2,5	40	21	B	K	B	B	B5
C5NR G1,5	5	5	1,5	1,5	2,5	40	21	B	K	B	B	B5
C6NR G0,7	6	6	0,7	1,3	3	48	26	B	K	B	B	B7
C6NR G1,0	6	6	1,0	1,3	3	48	26	B	K	B	B	B7
C6NR G1,5	6	6	1,5	2	3	48	26	B	K	B	B	B7
C6NR G2,0	6	6	2,0	2	3	48	26	B	K	B	B	B7
C8NR G1,0	8	8	1,0	1,7	4	72	45	B	K	B	B	B11
C8NR G1,5	8	8	1,5	2,2	4	72	45	B	K	B	B	B11
C8NR G2,0	8	8	2	2,7	4	72	45	B	K	B	B	B11
C8NR G2,5	8	8	2,5	2,7	4	72	45	B	K	B	B	B11

Style P | Boring bars for grooving and chamfering - before parting off



BORING BAR	D	d	b	A	a	F	L	I	STOCK				PRICE
									10M	C10	F10	B10	
C3NR P0,8	3	3	0,8	0,8	0,1	1,5	24	12	B	K	B	B	B4
C4NR P1,0	4	4	1	1	0,1	2	32	16,5	B	K	B	B	B5
C5NR P1,0	5	5	1	1,3	0,2	2,5	40	21	B	K	B	B	B6
C6NR P1,0	6	6	1	1,5	0,2	3	48	26	B	K	B	B	B8
C8NR P1,5	8	8	1,5	2	0,3	4	72	45	B	K	B	B	B12

Style A | Boring bars for face grooving



BORING BAR	D	b	a	L	I	STOCK				PRICE
						10M	C10	F10	B10	
C3NR A8-3-07	3	0,7	0,8	18	6	B	K	B	B	B2
C4NR A8-4-10	4	1	1,25	23,5	8	B	K	B	B	B3
C5NR A8-5-12	5	1,2	1,5	29	10	B	K	B	B	B4
C6NR A8-6-15	6	1,5	2	34	12	B	K	B	B	B6
C8NR A8-8-20	8	2	2,5	43	16	B	K	B	B	B10

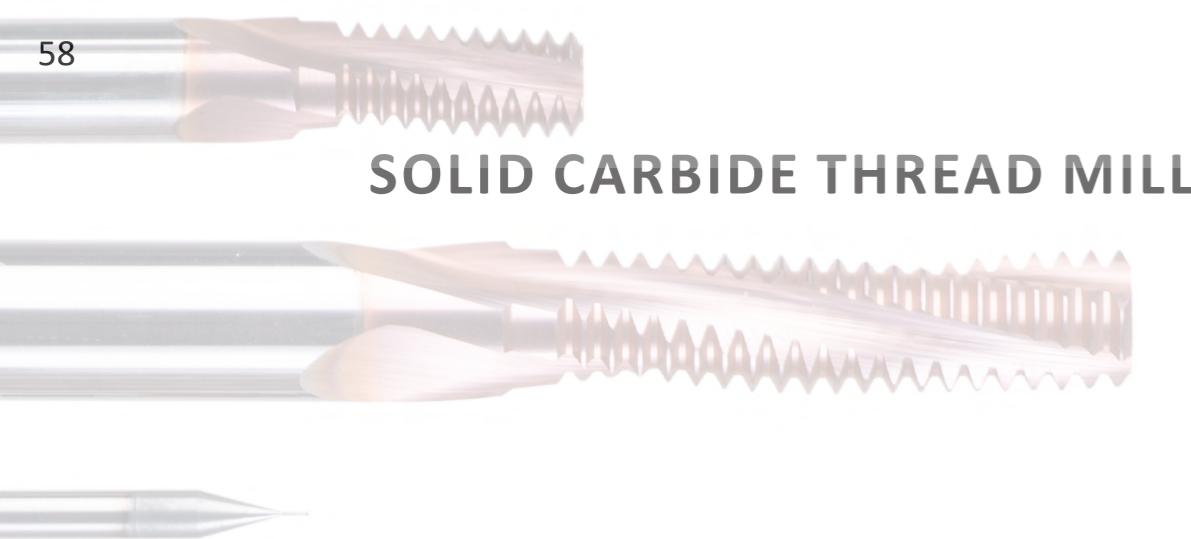
Special widths and depths can be produced. Contact your local distributor for a quote.

For stock status definitions see page 7.

WRC | Round toolholder with internal coolant



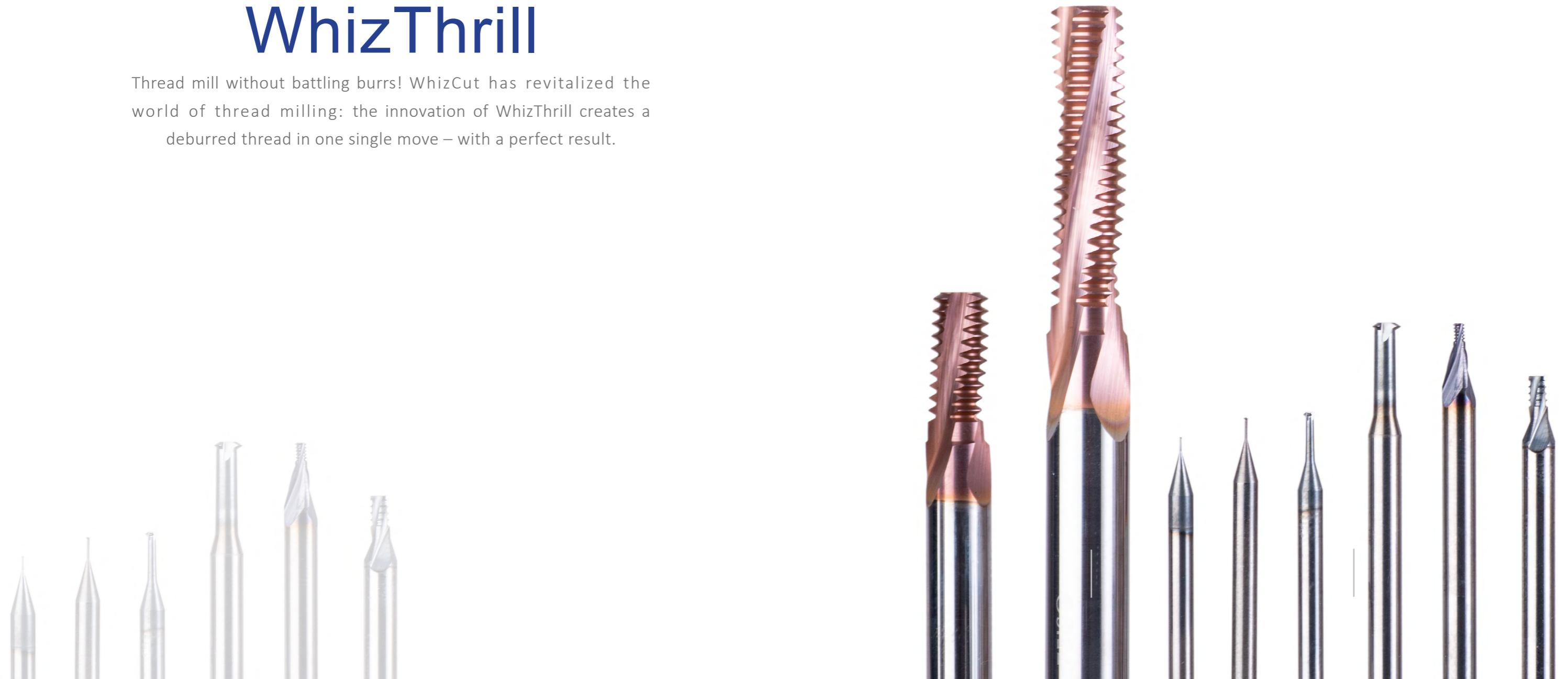
TOOLHOLDER	D	d INSERT SIZE	I	L WITH STANDARD INSERT	BORING BAR	STOCK	PRICE
* WRC3N 0812E-2	8	3	60,5	72,5	C3N---	R	B20
* WRC4N 0812E-2	8	4	60,5	77	C4N---	R	B20
WRC3N 0012E-2	12	3	70	82	C3N---	R	B2

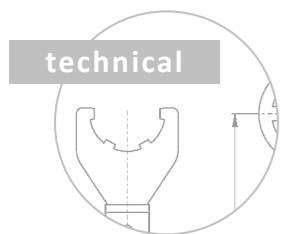


SOLID CARBIDE THREAD MILLS

WhizThrill

Thread mill without battling burrs! WhizCut has revitalized the world of thread milling: the innovation of WhizThrill creates a deburred thread in one single move – with a perfect result.



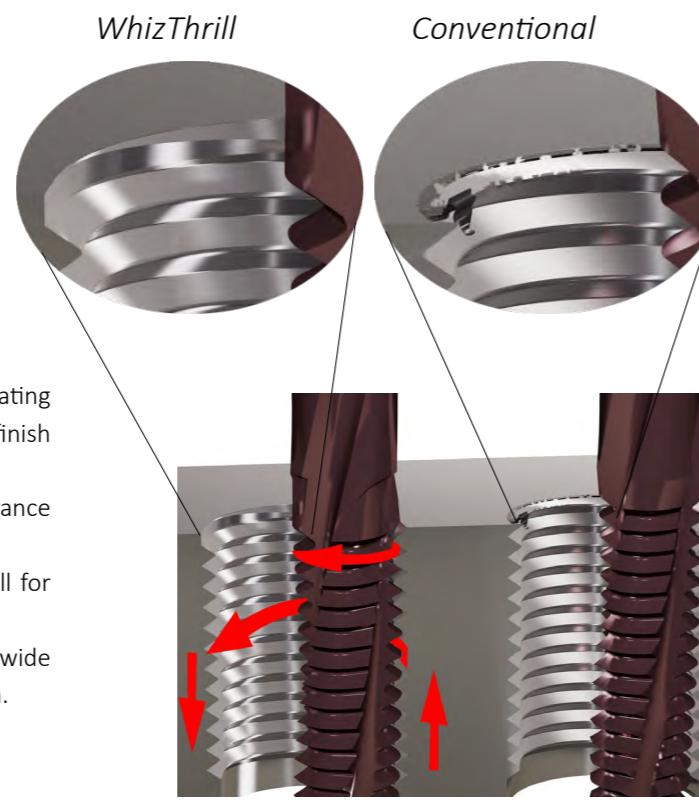


WhizThrill - deburring thread mills

WhizThrill is an unmatched WhizCut-concept of solid carbide thread mills. The range is designed with various unique geometries, to meet your specific needs and machining challenges.

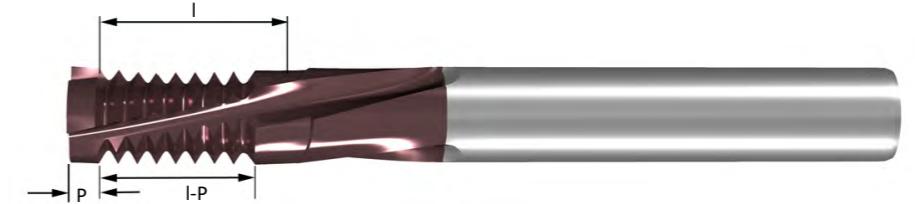
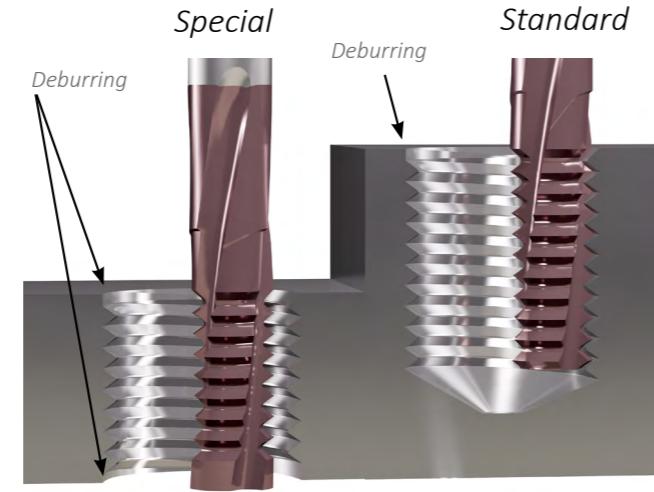
Range benefits

- **Upgraded output:** the great carbide and coating combinations of WhizThrill gives better surface finish and longer tool life.
 - **Time saving:** WhizThrill deburrs the thread entrance without having to make a chamfer.
 - **Unique geometries:** find the perfect thread mill for your specific job.
 - **Wide range:** from M1-M42, 0,4-4 mm pitch and wide range of thread types: NPT, NPTF and Whitworth.
 - **Coolant through:** both straight and radial.



Double deburr WhizThrill

Are burrs on both sides causing you a headache - when thread milling a through hole? WhizCut has designed double deburring thread mills, where both sides are deburred in the standard thread milling process. We only need to know one thing from you: the exact length of the thread and it will be produced as a special.



Double deburr specs

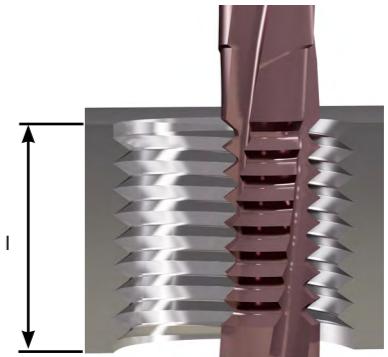
Information we need: diameter, pitch, thickness of the plate that will be thread milled.

Specials

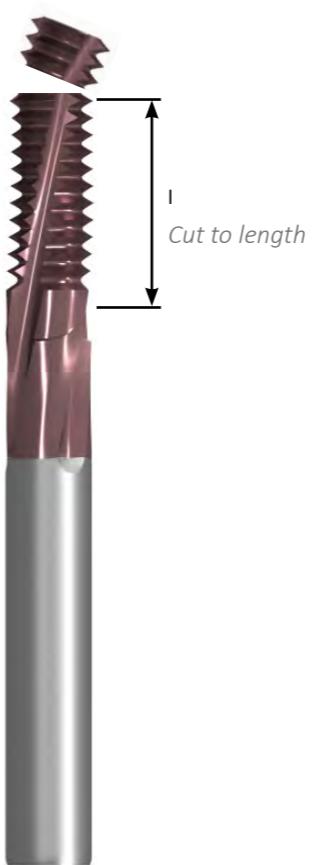
If you require a length/dimension apart the WhizCut standards - no problem! For a minor fee, we cut a standard thread mill to your desired length or grind a unique form, like a tapered thread mill for bone plates.

Smooth operations with WhizThrill software

Program your machine together with us and thread milling will be easy. Our software aid is great when programming the machine and it also calculates the deburring automatically. (It is important to use the correct thread mill.) The WhizThrill aid is a user friendly excel based program that recommends the programming for your CNC-machine. Order it free of charge from the WhizCut website: whizcut.com.

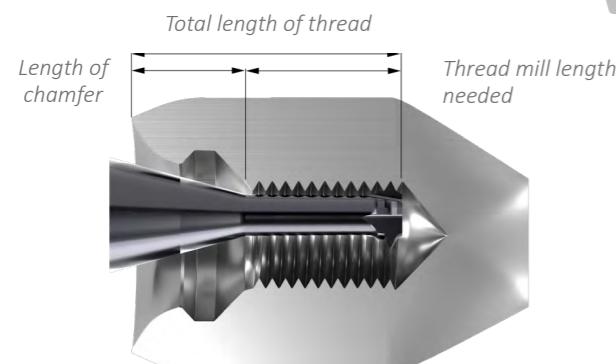


Special double deburring thread mill for bone plates.



The screenshot shows the WhizCut software interface. At the top left is the logo "WhizThrill". The top right says "CNC program for Fanuc". Below that is a yellow bar with the "WhizCut" logo. The main area has several dropdown menus: "Internal Thread Milling in Machining Center", "Fanuc", "M - Metric", and "Steel, Low Carbon, < 0.25%; C, < 400 N/mm²". On the left, there's a table of parameters: D = thread diameter [mm] (24), P = pitch [mm] (3), L = thread length [mm] (36), and S = safety distance [mm] (2). Below this is a table for tool selection: NB16C40 3.0 ISO A9. The columns are d, l, z, v, fz, and number of passes, radial (max 3). The values are: d (16), l (40.5), z (3), v (158), fz (0.050), and Number of passes, radial (max 3) (1). To the right is a technical diagram of a thread being machined, showing the cutter diameter D, feed per tooth fz, safety distance S, and other dimensions L and P.

Micro thread mills WhizThrill



Range benefits

- Unique shank design:** with increased stability.
- Coated carbide grade:** (B9), extra edge sharpness.
- Down to M1:** full profile, with minimal cutting forces gives great surface finish and longer tool life.
- 15° exit angle to full diameter:** use short thread mill.
- Specials, single or double deburring micro thread mills, and more flutes available upon request.

NS | Micro partial profile 60°

STOCK												
M COARSE	M FINE	S&UNM	UNC UNF	PART NUMBER	d	D	FLUTES	I	L	9M	B9	PRICE
M0,5	M0,5	0,5	#0000-160	NS03003C1.3 P60	3	0,37	3	1,3	39	B	B	T2A
M0,6	M0,6	0,6		NS03004C1.5 P60	3	0,44	3	1,5	39	B	B	T2A
M0,8	M0,8	0,8	#000-120	NS03005C1.4 P60	3	0,57	3	1,4	39	B	B	T2
M0,8	M0,8	0,8	#000-120	NS03005C2.0 P60	3	0,57	3	2,0	39	B	B	T2
M0,8	M0,8	0,8	#000-120	NS03005C2.7 P60	3	0,57	3	2,7	39	B	B	T2
M1,0	M1,0	1,0		NS03007C1.1 P60	3	0,7	3	1,1	39	B	B	T2
M1,0	M1,0	1,0		NS03007C1.7 P60	3	0,7	3	1,7	39	B	B	T2
M1,0	M1,0	1,0		NS03007C2.1 P60	3	0,7	3	2,1	39	B	B	T2
M1,0	M1,0	1,0		NS03007C2.5 P60	3	0,7	3	2,5	39	B	B	T2
M1,0	M1,0	1,0		NS03007C3.2 P60	3	0,7	3	3,2	39	B	B	T2
M1,2	M1,2	1,2	#00-95<	NS03009C2.0 P60	3	0,9	3	2	39	B	B	T2
M1,2	M1,2	1,2	#00-95<	NS03009C2.9 P60	3	0,9	3	2,9	39	B	B	T2
M1,2	M1,2	1,2	#00-95<	NS03009C3.9 P60	3	0,9	3	3,9	39	B	B	T2
M1,4	M1,4	1,4		NS03010C2.2 P60	3	1,03	3	2,2	39	B	B	T2
M1,4	M1,4	1,4		NS03010C3.3 P60	3	1,03	3	3,3	39	B	B	T2
M1,4	M1,4	1,4		NS03010C4.4 P60	3	1,03	3	4,4	39	B	B	T2
M1,6	M1,4X0,2	#0-80		NS03011C2.5 P60	3	1,16	3	2,5	39	B	B	T2
M1,6	M1,4X0,2	#0-80		NS03011C3.6 P60	3	1,16	3	3,6	39	B	B	T2
M1,6	M1,4X0,2	#0-80		NS03011C5.1 P60	3	1,16	3	5,1	39	B	B	T2
M1,8	M1,6X0,2	#1		NS03013C2.8 P60	3	1,35	3	2,8	39	B	B	T2
M1,8	M1,6X0,2	#1		NS03013C4.2 P60	3	1,35	3	4,2	39	B	B	T2
M1,8	M1,6X0,2	#1		NS03013C5.6 P60	3	1,35	3	5,6	39	B	B	T2
M2,0	M1,8	#2		NS03015C3.2 P60	3	1,5	3	3,2	39	B	B	T1
M2,0	M1,8	#2		NS03015C3.8 P60	3	1,5	3	3,8	39	B	B	T1
M2,0	M1,8	#2		NS03015C4.6 P60	3	1,5	3	4,6	39	B	B	T1
M2,0	M1,8	#2		NS03015C5.4 P60	3	1,5	3	5,4	39	B	B	T1
M2,0	M1,8	#2		NS03015C6.2 P60	3	1,5	3	6,2	39	B	B	T1
M2,5	M2,2X0,25	#3		NS03019C4.3 P60	3	1,9	3	4,3	39	B	B	T1
M2,5	M2,2X0,25	#3		NS03019C6.2 P60	3	1,9	3	6,2	39	B	B	T1
M2,5	M2,5	#4		NS03021C4.9 P60	3	2,1	3	4,9	39	B	B	T1
M2,5	M2,5	#4		NS03021C7.1 P60	3	2,1	3	7,1	39	B	B	T1
M3	M3	#5		NS03023C5.4 P60	3	2,3	3	5,4	39	B	B	T1
M3	M3	#5		NS03023C7.8 P60	3	2,3	3	7,8	39	B	B	T1
M3,5	M3	#6		NS03026C6.1 P60	3	2,6	3	6,1	39	B	B	T1
M3,5	M3	#6		NS03026C8.7 P60	3	2,6	3	8,7	39	B	B	T1
M4	M3,5-M4	#8		NS0303C7.1 P60	3	3	3	7,1	39	B	B	T1
M4	M3,5-M4	#8		NS0303C10.2 P60	3	3	3	10,2	39	B	B	T1
M4,5	M4,5	#10		NS04036C8.3 P60	4	3,6	3	8,3	51	B	B	T2
M4,5	M4,5	#10		NS04036C12.0 P60	4	3,6	3	12	51	B	B	T2
M5-M6	M5-M6	#12		NS0404C10.0 P60	4	4	3	10	51	B	B	T2
M5-M6	M5-M6	#12		NS0404C14.5 P60	4	4	3	14,5	51	B	B	T2

WhizGuide select the ideal micro thread

1. Partial profile vs. full profile

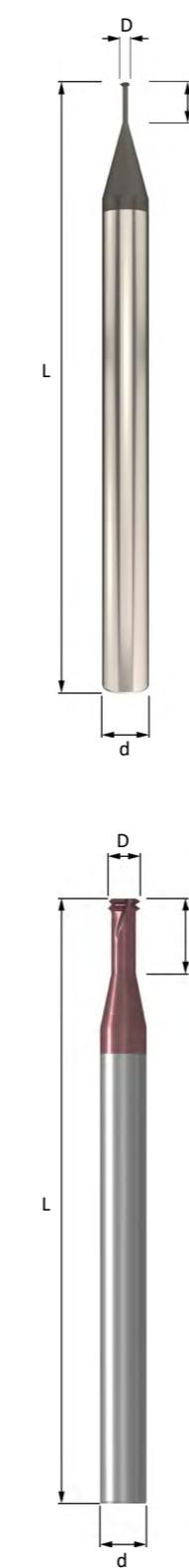
- Partial profile is better for long threads, tougher materials, and unstable machining conditions.
- Full profile when tight tolerances of major and minor is required. The quality of the thread form is improved vs. partial profile.

2. Grades vs. material

- WhizThrill uncoated grade 9M, a sub-micron carbide ISO K20-K30. Performs well in soft materials.
- B9 is an AlCrN coating which gives an extra edge sharpness. Tool life will be 4-5 times longer than an uncoated thread mill cutting in titanium.

3. Determine length

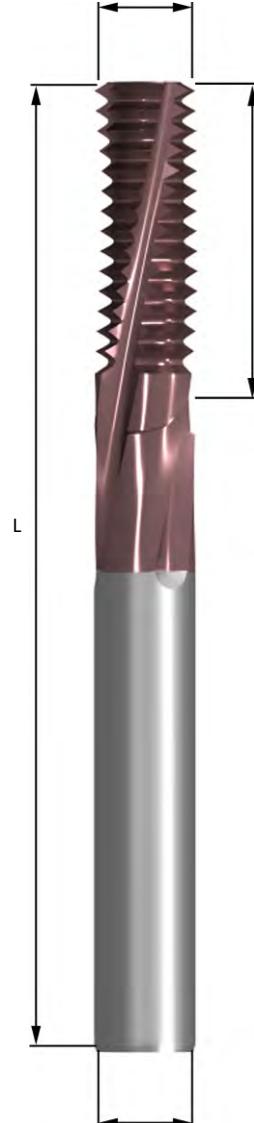
- Always choose the shortest possible tool. Micro thread mills lose a lot of rigidity with increased length.
- WhizThrill has a 15° exit angle from the minor dimension (D) to shank (d). When possible, make the chamfer before thread milling so that you can calculate the length of the thread from the end of the chamfer.



NT-ISO M | Micro full form

M COARSE	PITCH ISO	PART NUMBER	d	D	FLUTES	I	L	9M	B9	PRICE	STOCK
M1,0	0,25	NT03007C1.7-0.25ISO	3	0,7	3	1,7	39	B	B	T2B	
M1,0	0,25	NT03007C2.5-0.25ISO	3	0,7	3	2,5	39	B	B	T2B	
M1,0	0,25	NT03007C3.5-0.25ISO	3	0,7	3	3,5	39	B	B	T2B	
M1,2	0,25	NT03009C2.0-0.25ISO	3	0,9	3	2	39	B	B	T2B	
M1,2	0,25	NT03009C2.9-0.25ISO	3	0,9	3	2,9	39	B	B	T2B	
M1,2	0,25	NT03009C3.9-0.25ISO	3	0,9	3	3,9	39	B	B	T2B	
M1,4	0,3	NT03010C2.3-0.3ISO	3	1,03	3	2,3	39	B	B	T2A	
M1,4	0,3	NT03010C3.3-0.3ISO	3	1,03	3	3,3	39	B	B	T2A	
M1,4	0,3	NT03010C4.4-0.3ISO	3	1,03	3	4,4	39	B	B	T2A	
M1,6	0,35	NT03011C2.5-0.35ISO	3	1,16	3	2,5	39	B	B	T2A	
M1,6	0,35	NT03011C3.6-0.35ISO	3	1,16	3	3,6	39	B	B	T2A	
M1,6	0,35	NT03011C5.1-0.35ISO	3	1,16	3	5,1	39	B	B	T2A	
M1,8	0,35	NT03013C2.8-0.35ISO	3	1,35	3	2,8	39	B	B	T2	
M1,8	0,35	NT03013C4.2-0.35ISO	3	1,35	3	4,2	39	B	B	T2	
M1,8	0,35	NT03013C5.6-0.35ISO	3	1,35	3	5,6	39	B	B	T2	
M2,0	0,4	NT03015C3.2-0.4ISO	3	1,5	3	3,2	39	B	B	T2	
M2,0	0,4	NT03015C4.7-0.4ISO	3	1,5							

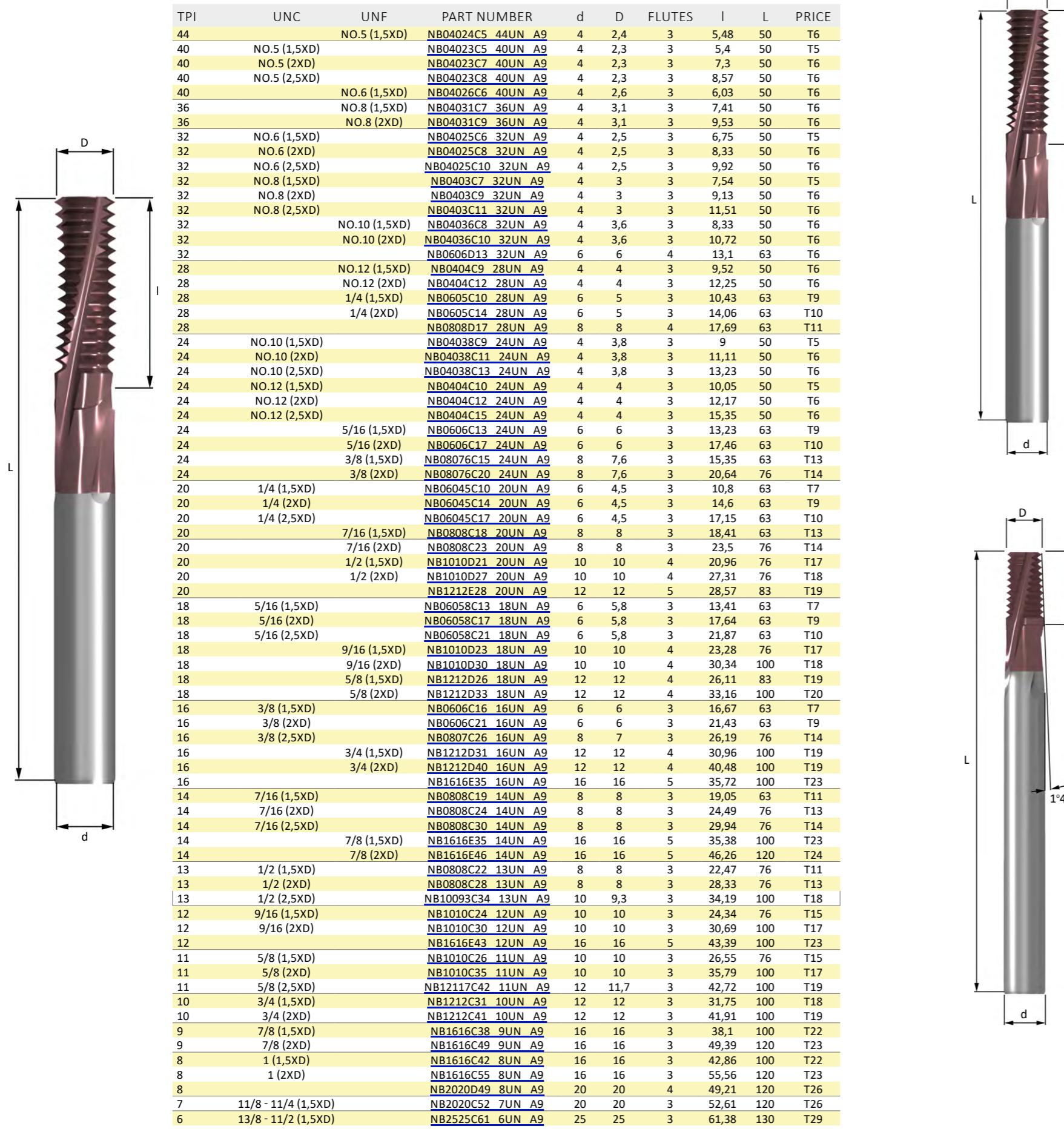
NB-ISO | Metric deburring thread mills



PITCH MM	M COARSE	M FINE	PART NUMBER	d	D	FLUTES	I	L	PRICE
0,4	M2 (1,5XD)		NB04015C3 0.4ISO A9	4	1,5	3	3,4	50	T5
0,4	M2 (2XD)		NB04015C4 0.4ISO A9	4	1,5	3	4,6	50	T6
0,45	M2,2 (1,5XD)		NB04016C3 0.45ISO A9	4	1,6	3	3,82	50	T5
0,45	M2,2 (2XD)		NB04016C5 0.45ISO A9	4	1,6	3	5,17	50	T6
0,45	M2,5 (1,5XD)		NB04019C4 0.45ISO A9	4	1,9	3	4,27	50	T5
0,45	M2,5 (2XD)		NB04019C5 0.45ISO A9	4	1,9	3	5,62	50	T6
0,5	M3 (1,5XD)	≥ M4	NB04023C5 0.5ISO A9	4	2,3	3	5,25	50	T5
0,5	M3 (2XD)	≥ M4	NB04023C6 0.5ISO A9	4	2,3	3	6,75	50	T6
0,5	M3 (2,5XD)	≥ M4	NB04023C8 0.5ISO A9	4	2,3	3	8,25	50	T8
0,5	M3 (1,5XD)	≥ M4	NB06023C5 0.5ISO A9	6	2,3	3	5,25	63	T7
0,5	M3 (2XD)	≥ M4	NB06023C6 0.5ISO A9	6	2,3	3	6,75	63	T9
0,5	M3 (2,5XD)	≥ M4	NB06023C8 0.5ISO A9	6	2,3	3	8,25	63	T10
0,5	M3 (1,5XD)	≥ M5	NB04038C10 0.5ISO A9	4	3,8	3	10,75	50	T6
0,5	M3 (2XD)	≥ M5	NB06038C10 0.5ISO A9	6	3,8	3	10,75	63	T9
0,6	M3,5 (1,5XD)		NB04026C6 0.6ISO A9	4	2,6	3	6,3	50	T5
0,6	M3,5 (2XD)		NB04026C8 0.6ISO A9	4	2,6	3	8,1	50	T6
0,7	M4 (1,5XD)		NB0403C7 0.7ISO A9	4	3	3	7,35	50	T5
0,7	M4 (2XD)		NB0403C8 0.7ISO A9	4	3	3	8,75	50	T6
0,7	M4 (2,5XD)		NB0403C10 0.7ISO A9	4	3	3	10,85	50	T8
0,7	M4 (1,5XD)		NB0603C7 0.7ISO A9	6	3	3	7,35	63	T7
0,7	M4 (2XD)		NB0603C8 0.7ISO A9	6	3	3	8,75	63	T9
0,7	M4 (2,5XD)		NB0603C10 0.7ISO A9	6	3	3	10,85	63	T10
0,75	M4,5 (1,5XD)		NB04034C7 0.75ISO A9	4	3,4	3	7,87	50	T5
0,75	M4,5 (2XD)		NB04034C10 0.75ISO A9	4	3,4	3	10,12	50	T6
0,75	M4,5 (3XD)	≥ M6	NB06045C10 0.75ISO A9	6	4,5	3	10,87	63	T7
0,75	M6 (1,5XD)		NB06045C16 0.75ISO A9	6	4,5	3	16,87	63	T9
0,8	M5 (1,5XD)		NB04038C8 0.8ISO A9	4	3,8	3	8,4	50	T5
0,8	M5 (2XD)		NB04038C10 0.8ISO A9	4	3,8	3	10,8	50	T6
0,8	M5 (2,5XD)		NB04038C13 0.8ISO A9	4	3,8	3	13,2	50	T8
0,8	M5 (1,5XD)		NB06038C8 0.8ISO A9	6	3,8	3	8,4	63	T7
0,8	M5 (2XD)		NB06038C10 0.8ISO A9	6	3,8	3	10,8	63	T9
0,8	M5 (2,5XD)		NB06038C13 0.8ISO A9	6	3,8	3	13,2	63	T10
1	M6 (1,5XD)	≥ M8	NB06045C10 1.0ISO A9	6	4,5	3	10,5	63	T7
1	M6 (2XD)	≥ M8	NB06045C13 1.0ISO A9	6	4,5	3	13,5	63	T9
1	M6 (2,5XD)	≥ M8	NB06045C16 1.0ISO A9	6	4,5	3	16,5	63	T10
1	M6 (3XD)	≥ M8	NB06045C19 1.0ISO A9	6	4,5	3	19,5	63	T12
1	M6 (2,5XD)	≥ M8	NB0606C10 1.0ISO A9	6	6	3	10,5	63	T7
1	M6 (2,5XD)	≥ M8	NB0606C13 1.0ISO A9	6	6	3	13,5	63	T8
1	M10 (1,5XD)	≥ M10	NB0808D10 1.0ISO A9	8	8	4	10,5	63	T10
1	M10 (2,5XD)	≥ M10	NB0808D13 1.0ISO A9	8	8	4	13,5	63	T11
1	M10 (2,5XD)	≥ M10	NB0808D17 1.0ISO A9	8	8	4	17,5	63	T12
1	M14 (1,5XD)	≥ M14	NB1010E14 1.0ISO A9	10	10	5	14,5	76	T16
1	M14 (2,5XD)	≥ M14	NB1010E19 1.0ISO A9	10	10	5	19,5	76	T17
1	M14 (2,5XD)	≥ M14	NB1212F15 1.0ISO A9	12	12	6	15,5	83	T18
1	M14 (2,5XD)	≥ M14	NB1212F21 1.0ISO A9	12	12	6	21,5	83	T19
1,25	M8 (1,5XD)	≥ M10	NB0606C14 1.25ISO A9	6	6	3	14,37	63	T7
1,25	M8 (2XD)	≥ M10	NB0606C18 1.25ISO A9	6	6	3	18,12	63	T9
1,25	M8 (2,5XD)	≥ M10	NB0606C21 1.25ISO A9	6	6	3	21,87	63	T10
1,25	M8 (3XD)	≥ M10	NB0606C25 1.25ISO A9	6	6	3	25,62	76	T12
1,5	M10 (1,5XD)	≥ M12	NB08075C17 1.5ISO A9	8	7,5	3	17,25	63	T11
1,5	M10 (2XD)	≥ M12	NB08075C21 1.5ISO A9	8	7,5	3	21,75	76	T13
1,5	M10 (2,5XD)	≥ M12	NB08075C27 1.5ISO A9	8	7,5	3	27,75	76	T14
1,5	M10 (3XD)	≥ M12	NB08075C32 1.5ISO A9	8	7,5	3	32,25	76	T16
1,5	M14 (1,5XD)	≥ M14	NB1010D17 1.5ISO A9	10	10	4	17,25	76	T15
1,5	M14 (2,5XD)	≥ M14	NB1010D23 1.5ISO A9	10	10	4	23,25	76	T15
1,5	M16 (1,5XD)	≥ M16	NB1212D15 1.5ISO A9	12	12	4	15,75	83	T17
1,5	M16 (2,5XD)	≥ M16	NB1212D21 1.5ISO A9	12	12	4	21,75	83	T18
1,5	M20 (1,5XD)	≥ M20	NB1616F15 1.5ISO A9	12	12	4	29,25	83	T19
1,5	M20 (2,5XD)	≥ M20	NB1616F26 1.5ISO A9	16	16	6	26,25	100	T22
1,5	M20 (3XD)	≥ M20	NB1616F35 1.5ISO A9	16	16	6	35,25	100	T23
1,75	M12 (1,5XD)	≥ M12	NB0808C20 1.75ISO A9	8	8	3	20,12	76	T11
1,75	M12 (2XD)	≥ M12	NB0808C27 1.75ISO A9	8	8	3	27,12	76	T13
1,75	M12 (1,5XD)	≥ M12	NB1009C20 1.75ISO A9	10	9	3	20,12	76	T15
1,75	M12 (2XD)	≥ M12	NB1009C27 1.75ISO A9	10	9	3	27,12	76	T17
1,75	M12 (2,5XD)	≥ M12	NB1009C32 1.75ISO A9	10	9	3	32,37	100	T18
1,75	M12 (3XD)	≥ M12	NB1009C37 1.75ISO A9	10	9	3	37,62	100	T19
2	M14 (1,5XD)	≥ M18	NB1010C23 2.0ISO A9	10	10	3	23	76	T15
2	M14 (2XD)	≥ M18	NB1010C31 2.0ISO A9	10	10	3	31	100	T19
2	M14 (2,5XD)	≥ M18	NB1010C37 2.0ISO A9	10	10	3	37	100	T18
2	M16 (1,5XD)	≥ M18	NB1212D27 2.0ISO A9	12	12	4	27	83	T18
2	M16 (2XD)	≥ M18	NB1212D35 2.0ISO A9	12	12	4	35	100	T20
2	M16 (2,5XD)	≥ M18	NB1212D43 2.0ISO A9	12	12	4	43	100	T22
2	M16 (3XD)	≥ M18	NB1212C51 2.0ISO A9	12	12	3	51	100	T21
2	M20 (1,5XD)	≥ M20	NB1616E29 2.0ISO A9	16	16	5	29	100	T22
2	M20 (2,5XD)	≥ M20	NB1616E39 2.0ISO A9	16	16	5	39	100	T23
2	M24 (1,5XD)	≥ M24	NB2020F43 2.0ISO A9	20	20	6	43	100	T26
2	M30 (1,5XD)	≥ M30	NB2525F57 2.0ISO A9	25	25	6	57	130	T29
2,5	M18 (1,5XD)		NB1212C31 2.5ISO A9	12	12	3	31,25	100	T19
2,5	M18 (2XD)		NB1212C38 2.5ISO A9	12	12	3	38,75</td		

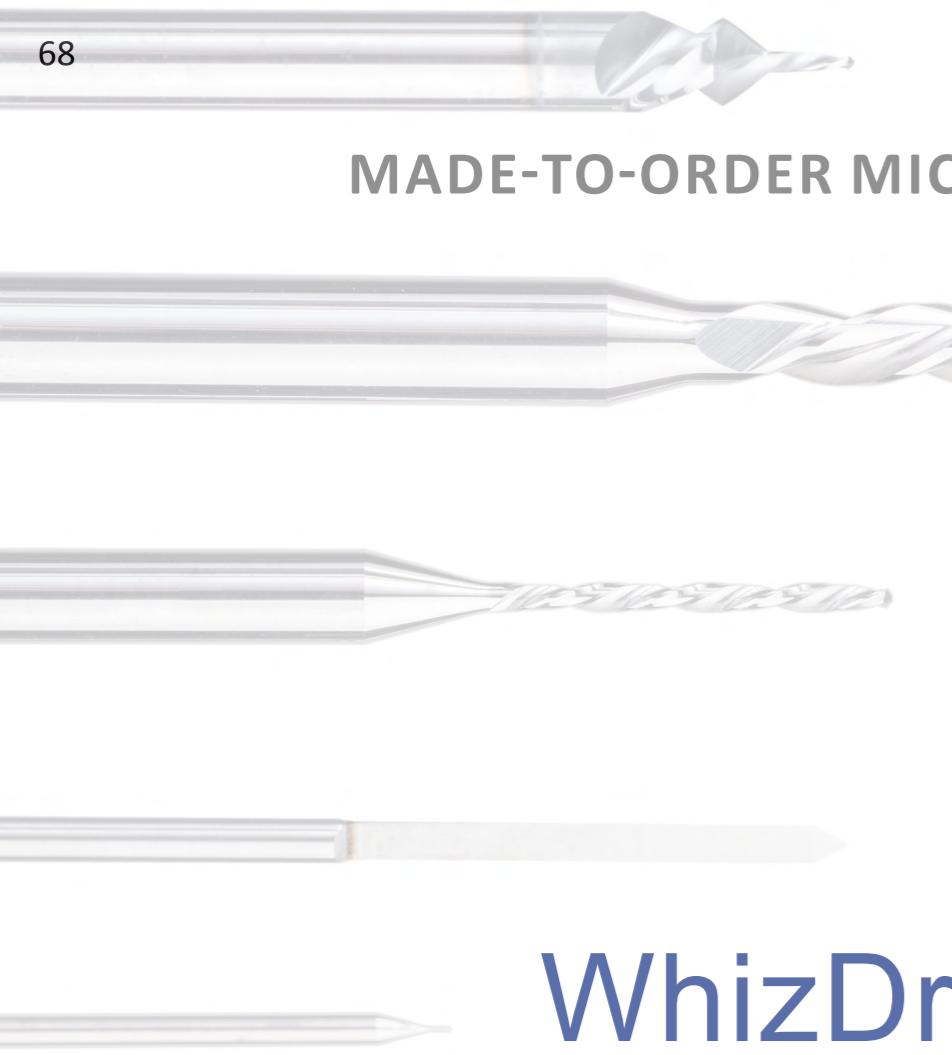
UN | Deburring thread mills unified

TPI	UNC	UNF	PART NUMBER	d	D	FLUTES	I	L	PRICE
44		NO.5 (1,5XD)	NB04024C5 44UN A9	4	2,4	3	5,48	50	T6
40		NO.5 (1,5XD)	NB04023C5 40UN A9	4	2,3	3	5,4	50	T5
40		NO.5 (2XD)	NB04023C7 40UN A9	4	2,3	3	7,3	50	T6
40		NO.5 (2,5XD)	NB04023C8 40UN A9	4	2,3	3	8,57	50	T6
40		NO.6 (1,5XD)	NB04026C6 40UN A9	4	2,6	3	6,03	50	T6
36		NO.8 (1,5XD)	NB04031C7 36UN A9	4	3,1	3	7,41	50	T6
36		NO.8 (2XD)	NB04031C9 36UN A9	4	3,1	3	9,53	50	T6
32		NO.6 (1,5XD)	NB04025C6 32UN A9	4	2,5	3	6,75	50	T5
32		NO.6 (2XD)	NB04025C8 32UN A9	4	2,5	3	8,33	50	T6
32		NO.6 (2,5XD)	NB04025C10 32UN A9	4	2,5	3	9,92	50	T6
32		NO.8 (1,5XD)	NB0403C7 32UN A9	4	3	3	7,54	50	T5
32		NO.8 (2XD)	NB0403C9 32UN A9	4	3	3	9,13	50	T6
32		NO.8 (2,5XD)	NB0403C11 32UN A9	4	3	3	11,51	50	T6
32		NO.10 (1,5XD)	NB04036C8 32UN A9	4	3,6	3	8,33	50	T6
32		NO.10 (2XD)	NB04036C10 32UN A9	4	3,6	3	10,72	50	T6
32			NB0606D13 32UN A9	6	6	4	13,1	63	T6
28		NO.12 (1,5XD)	NB0404C9 28UN A9	4	4	3	9,52	50	T6
28		NO.12 (2XD)	NB0404C12 28UN A9	4	4	3	12,25	50	T6
28		1/4 (1,5XD)	NB0605C10 28UN A9	6	5	3	10,43	63	T9
28		1/4 (2XD)	NB0605C14 28UN A9	6	5	3	14,06	63	T10
28			NB0808D17 28UN A9	8	8	4	17,69	63	T11
24		NO.10 (1,5XD)	NB04038C9 24UN A9	4	3,8	3	9	50	T5
24		NO.10 (2XD)	NB04038C11 24UN A9	4	3,8	3	11,11	50	T6
24		NO.10 (2,5XD)	NB04038C13 24UN A9	4	3,8	3	13,23	50	T6
24		NO.12 (1,5XD)	NB0404C10 24UN A9	4	4	3	10,05	50	T5
24		NO.12 (2XD)	NB0404C12 24UN A9	4	4	3	12,17	50	T6
24		NO.12 (2,5XD)	NB0404C15 24UN A9	4	4	3	15,35	50	T6
24		5/16 (1,5XD)	NB0606C13 24UN A9	6	6	3	13,23	63	T9
24		5/16 (2XD)	NB0606C17 24UN A9	6	6	3	17,46	63	T10
24		3/8 (1,5XD)	NB08076C15 24UN A9	8	7,6	3	15,35	63	T13
24		3/8 (2XD)	NB08076C20 24UN A9	8	7,6	3	20,64	76	T14
20		1/4 (1,5XD)	NB06045C10 20UN A9	6	4,5	3	10,8	63	T7
20		1/4 (2XD)	NB06045C14 20UN A9	6	4,5	3	14,6	63	T9
20		1/4 (2,5XD)	NB06045C17 20UN A9	6	4,5	3	17,15	63	T10
20		7/16 (1,5XD)	NB0808C18 20UN A9	8	8	3	18,41	63	T13
20		7/16 (2XD)	NB0808C23 20UN A9	8	8	3	23,5	76	T14
20		1/2 (1,5XD)	NB1010D21 20UN A9	10	10	4	20,96	76	T17
20		1/2 (2XD)	NB1010D27 20UN A9	10	10	4	27,31	76	T18
20			NB1212E28 20UN A9	12	12	5	28,57	83	T19
18		5/16 (1,5XD)	NB06058C13 18UN A9	6	5,8	3	13,41	63	T7
18		5/16 (2XD)	NB06058C17 18UN A9	6	5,8	3	17,64	63	T9
18		5/16 (2,5XD)	NB06058C21 18UN A9	6	5,8	3	21,87	63	T10
18		9/16 (1,5XD)	NB1010D23 18UN A9	10	10	4	23,28	76	T17
18		9/16 (2XD)	NB1010D30 18UN A9	10	10	4	30,34	100	T18
18		5/8 (1,5XD)	NB1212D26 18UN A9	12	12	4	26,11	83	T19
18		5/8 (2XD)	NB1212D33 18UN A9	12	12	4	33,16	100	T20
16		3/8 (1,5XD)	NB0606C16 16UN A9	6	6	3	16,67	63	T7
16		3/8 (2XD)	NB0606C21 16UN A9	6	6	3	21,43	63	T9
16		3/8 (2,5XD)	NB0807C26 16UN A9	8	7	3	26,19	76	T14
16		3/4 (1,5XD)	NB1212D31 16UN A9	12	12	4	30,96	100	T19
16		3/4 (2XD)	NB1212D40 16UN A9	12	12	4	40,48	100	T19
16			NB1616E35 16UN A9	16	16	5	35,72	100	T23
14		7/16 (1,5XD)	NB0808C19 14UN A9	8	8	3	19,05	63	T11
14		7/16 (2XD)	NB0808C24 14UN A9	8	8	3	24,49	76	T13
14		7/16 (2,5XD)	NB0808C30 14UN A9	8	8	3	29,94	76	T14
14		7/8 (1,5XD)	NB1616E35 14UN A9	16	16	5	35,38	100	T23
14		7/8 (2XD)	NB1616E46 14UN A9	16	16	5	46,26	120	T24
13		1/2 (1,5XD)	NB0808C22 13UN A9	8	8	3	22,47	76	T11
13		1/2 (2XD)	NB0808C28 13UN A9	8	8	3	28,33	76	T13
13		1/2 (2,5XD)	NB10093C34 13UN A9	10	9,3	3	34,19	100	T18
12		9/16 (1,5XD)	NB1010C24 12UN A9	10	10	3	24,34	76	T15
12		9/16 (2XD)	NB1010C30 12UN A9	10	10	3	30,69	100	T17
12			NB1616E43 12UN A9	16	16	5	43,39	100	T23
11		5/8 (1,5XD)	NB1010C26 11UN A9	10	10	3	26,55	76	T15
11		5/8 (2XD)	NB1010C35 11UN A9	10	10	3	35,79	100	T17
11		5/8 (2,5XD)	NB12117C42 11UN A9	12	11,7	3	42,72	100	T19
10		3/4 (1,5XD)	NB1212C31 10UN A9	12	12	3	31,75	100	T18
10		3/4 (2XD)	NB1212C41 10UN A9	12	12	3	41,91	100	T19
9		7/8 (1,5XD)	NB1616C38 9UN A9	16	16	3	38,1	100	T22
9		7/8 (2XD)	NB1616C49 9UN A9	16	16	3	49,39	120	T23
8		1 (1,5XD)	NB1616C42 8UN A9	16	16	3	42,86	100	T22
8		1 (2XD)	NB1616C55 8UN A9	16	16	3	55,56	120	T23
7		11/8 - 11/4 (1,5XD)	NB2020C52 7UN A9	20	20	3	52,61	120	T26
6		13/8 - 11/2 (1,5XD)	NB2525C61 6UN A9	25	25	3	61,38	130	T29



XB | Whitworth pipe thread, internal and external use

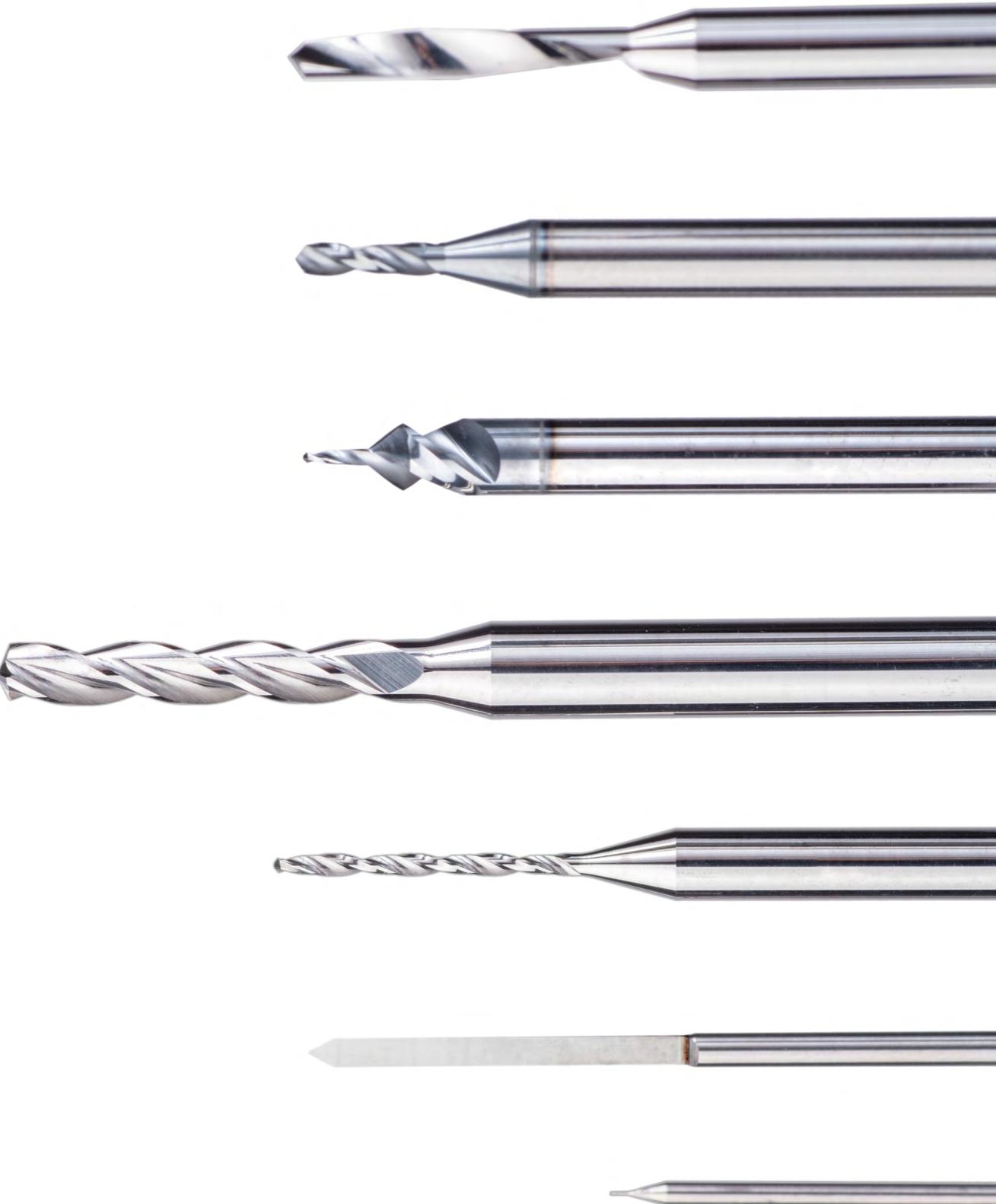
TPI	NORM	PART NUMBER	d	D	FLUTES	I	L	PRICE
28	G 1/8	XB0606C10 28W A9	6	6	3	10,43	63	T7
19	G 1/4 - 3/8	XB0808C15 19W A9	8	8	3	15,37	63	T11
19	G 1/4 - 3/8	XB1010D22 19W A9	10	10	4	22,06	76	T1

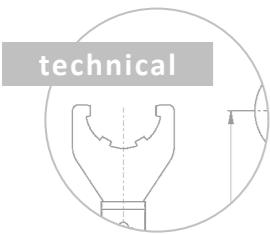


MADE-TO-ORDER MICRO DRILLS

WhizDrill

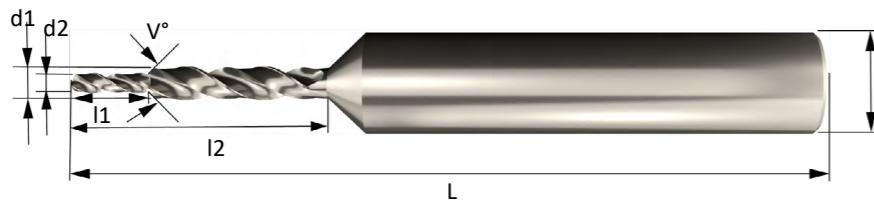
You name it. We make it WhizDrill. Together. All WhizDrills are made to your specific needs and request. WhizCut design micro drills starting at 0,05 mm in any drill form or geometries. Why settle for less when you can have the ideal drill for the job, every time.





WhizDrill: Made-to-order micro drill bits

All WhizDrill micro drills are custom-made, designed and produced to your specific requirements. Thanks to our improved machining facilities WhizCut delivers perfect drills to a moderate price, starting at 20 pieces. At WhizCut we know geometries and our focus is to help you create a supreme tool.



Range benefits

- Really small:** micro drills starting at 0,05 mm.
- Flexible:** we produce any drill form and geometry.
- Ready to order:** blank size in stock: 1,0 mm, 1,5 mm, 2,0 mm, 2,5 mm, 3,0 mm, $\frac{1}{8}$ " and 4,0 mm.
- Perfect design:** optimizing drill design generates increased tool life and improved cycle times.
- Smoother coating:** all drills have an improved smoothness of the coating which improves chip flow and surface finish.



WhizGuide
select the perfect micro drill

1. Order the correct drill bit

All WhizDrills can be ordered for every 0,001 mm in diameter, with a range of different specifications.

2. Conversion chart

Have a look at the two examples and use the conversion chart below to order the correct drill for you.

3. Specify details

Details to specify when you order: drill diameter, cutting length, shank diameter and length, right or left hand, helix angle, point angle. The drills have h6 tolerance, unless otherwise specified.

4. Contact us

Please contact your WhizCut representative if you need assistance to choose the correct drill bit.

DRILL	TYPE	RIGHT/ LEFT HAND	DRILL D	HELIX ANGLE	POINT ANGLE	SHANK D MM	CUTTING LENGTH MM	O.V.A LENGTH MM	GRADE
D	*	*	*,**	*	*	*,*	*	**	**
D	C	R	0,58	E	D	3,0	7	38	B9
D	B	R	0,10	F	F	1,5	1	30	B9

NAME	DRILL TYPE
A	1-FLUTE TWIST DRILL WITH REINFORCED SHANK
B	2-FLUTE TWIST DRILL WITH REINFORCED SHANK
BA	2-FLUTE SELF CENTERING TWIST DRILL WITH REINFORCED SHANK
BC	2-FLUTE COOLANT THROUGH TWIST DRILL, REINFORCED SHANK
C	3-FLUTE TWIST DRILL WITH REINFORCED SHANK
D	2-FLUTE TWIST DRILL
E	2-FLUTE STEP TWIST DRILL
F	SPADE DRILL
G	CENTRE DRILL
H	CENTRE DRILL LONG
I	HALF ROUND DRILL
J	1,2,3 STEP HALF ROUND DRILL
K	DOUBLE COUNTERSINK DRILL

NAME	HELIX ANGLE°
A	0
B	15
C	20
D	24
E	30
F	35
G	38

NAME	POINT ANGLE°
A	90
B	100
C	110
D	118
E	120
F	130
G	140

New!
New!





Style A | Carbide 1-flute twist drill with reinforced shank

The large flute gives plenty of room for chip evacuation. Suitable for titanium, and other hard materials.



Style B | Carbide 2-flute twist drills with reinforced shank

Style BA | Carbide 2-flute *self centering* twist drill with reinforced shank

Style BC | Carbide 2-flute *coolant through* twist drill with reinforced shank

Good overall drill. Type that depends more on the application than the actual material.

Style BA to be used when high heat is generated or better chip evacuation is needed.

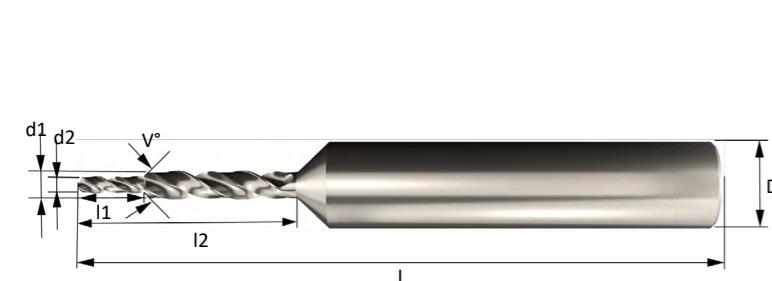
Style BA reamer can be eliminated and hole positioning is increased.

Suitable for most materials

Style C | Carbide 3-flute twist drill with reinforced shank

Drills to tight tolerances so reamer can be taken away. Most often no centre drill needed.

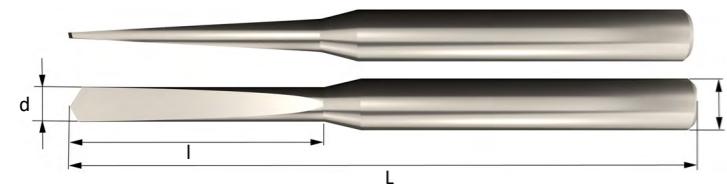
To be used in tough stainless steel, medical steels like 316 and MP35.



Style E | Carbide 2-flute multiple step twist drill with reinforced shank

Special applications where the cycle time, hole quality and concentricity is a priority.

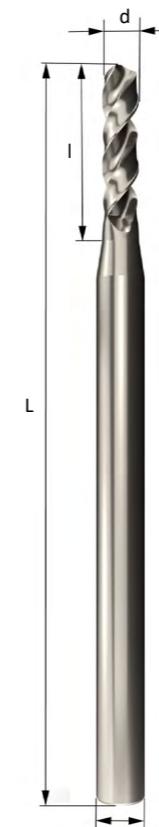
For most materials.



Style F | Carbide spade drill

Often used in watchmaking.

For softer materials, short holes.



Style G | Carbide centre drills

Style H | Carbide centre drills long

A big benefit of choosing helix and point angle per application. Centre drills suitable for all materials.



Style I | Half round drills

Half round drills that drill to perfection. Long tradition of usage in watchmaking and medical applications.

Exotics, copper, powdered materials



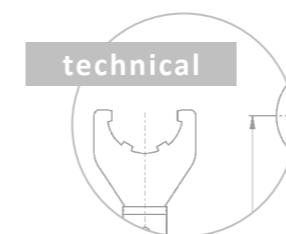
Style J | Carbide 1, 2, 3 Step half round

Use when high concentricity is needed, same as style I.



Style K | Carbide double countersink drills

All round countersink drill, use when small and precise profiles need to be made.



Technical information WhizDrill

- All drills are available for any type of geometry and size up to 3,17 mm.
- Diameter tolerance is h6 as standard other tolerances upon request.

Minimum drill size

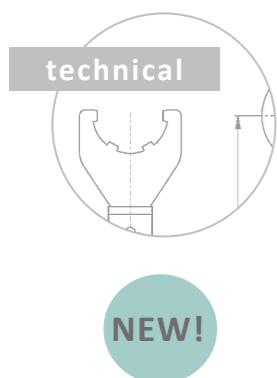
- 0,05 mm = style B.
- 0,10 mm = style E, G, H, I, J, K.
- 0,50 mm = style A, BA, BC, C, F.

HIGH PRESSURE COOLANT CONNECTION

WhizHip

WhizHip is a high pressure coolant connection system that is quick, adjustable and easy to use. The system is developed to give a maximised coolant flow from machine to holder where connecting is made quickly and with a great ease.





WhizHip – high pressure connections

WhizHip, a distribution system for high pressure coolant, capable of handling pressures up to 250 bar, and at the same time flexible for setup and tool changes. WhizHip performs great, leading to shorter machining times, less machine stops and a more consistent process. Choose between [WhizHip Octo](#) line or [WhizHip Mini](#) line, there is always a size that fits your tools.

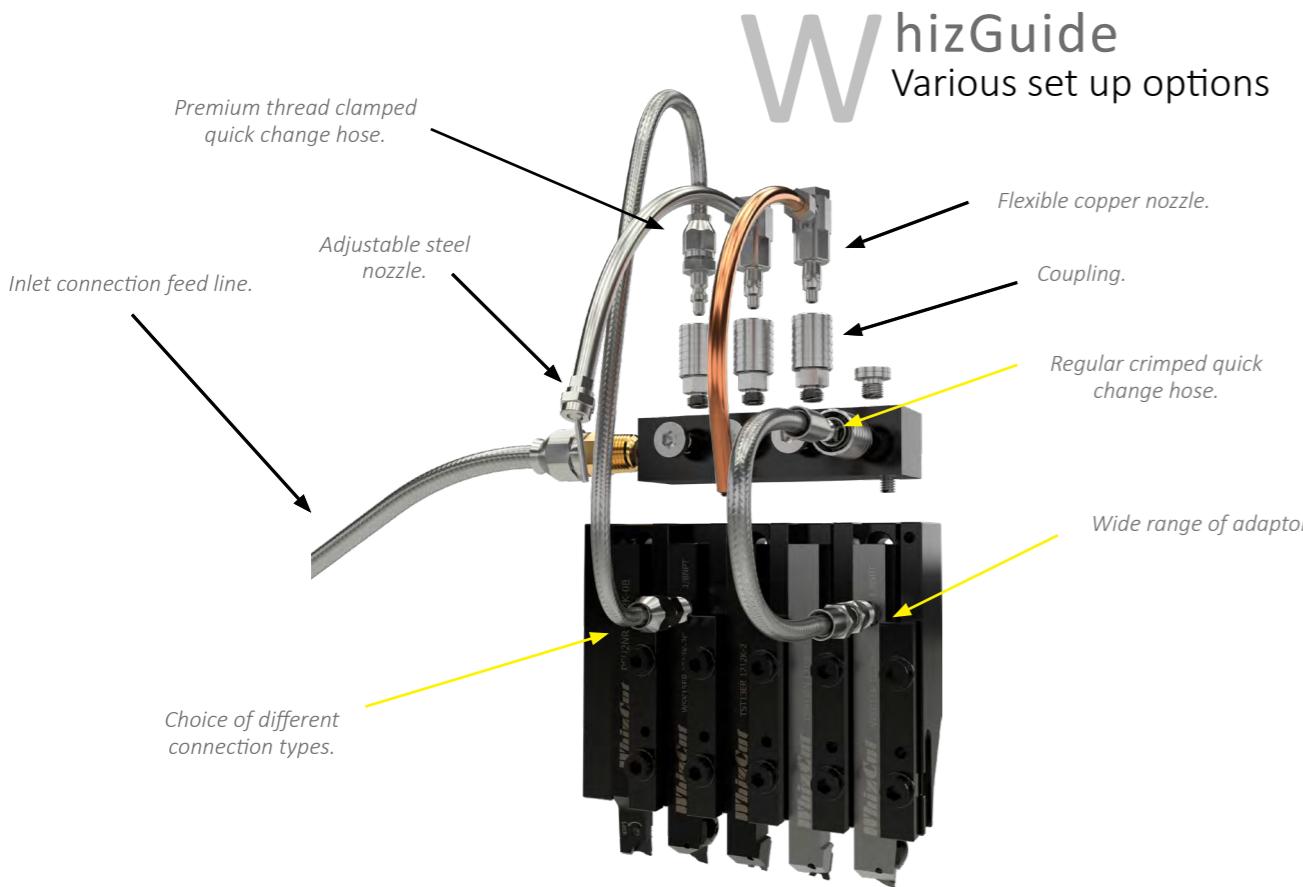
Range benefits

- Flexible:** WhizHip is designed with flexible, hard wearing stainless steel braided hoses- bendable with quick change couplings and adjustable nozzles.
- Heat resistant:** the hoses are designed to withstand heat from hot chips shooting from the workpiece.
- Time saving:** connect the hoses to the quick change coupling without using any other tools.
- Precise:** the high pressure coolant is led through the toolholder and exits with directed jets.
- Great chip control:** high pressure controls and breaks the chip thanks to its concentration at the cutting edge.
- Ready:** WhizHip and WhizIn toolholders are all prepared for internal high pressure coolant

Perfect fit with WhizCut signature toolholders:

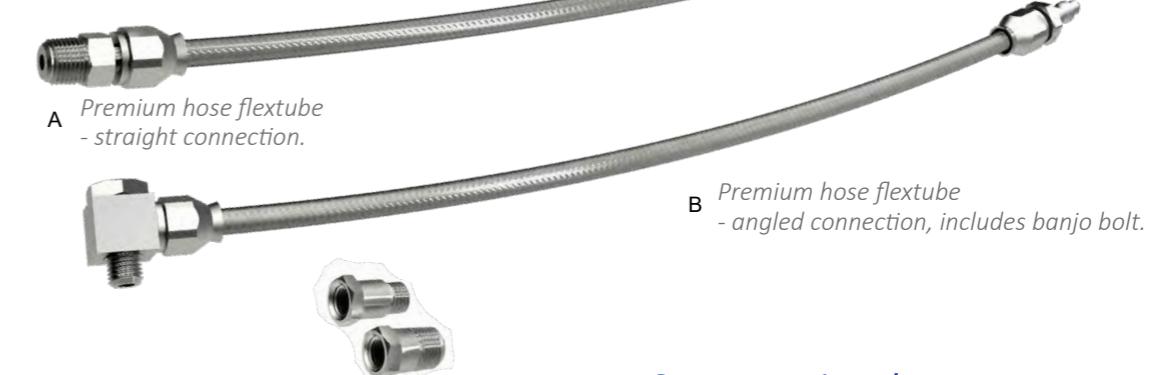
HIP

FIX



Premium Octo hoses

Flexible thread assembled quick-change hoses



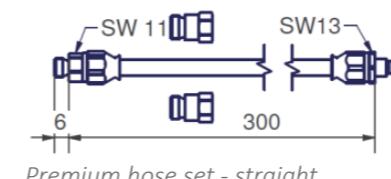
NEW!

Octo premium hose

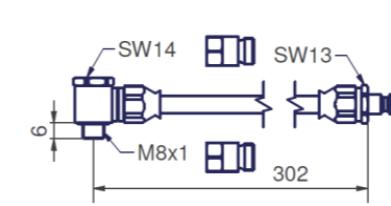
WO- WhizHip Octo
WM- WhizHip Mini
ET- External
IT- Internal

PART NB.	CONNECTOR 1	CONNECTOR 2	LENGTH*	WRENCH	PIC.
103376	1/8" NPT	WO NIPPLE	100	SW 11+13	A
102938	1/8" NPT	WO NIPPLE	200	SW 11+13	A
102186	1/8" NPT	WO NIPPLE	300	SW 11+13	A

Octo premium hose set - including adapters



Premium hose set - straight.



Premium hose set - angled.

PART NB.	CONNECTOR 1	CONNECTOR 2	LENGTH*	THREAD ADAPT.	WRENCH	PIC.
103375	M8X1	WO NIPPLE	100	M10X1, G1/8	SW 11+13	A
102686	M8X1	WO NIPPLE	200	M10X1, G1/8	SW 11+13	A
101991	M8X1	WO NIPPLE	300	M10X1, G1/8	SW 11+13	A
103375U	M8X1	WO NIPPLE	100	M10X1, 1/8" NPT	SW 11+13	A
102686U	M8X1	WO NIPPLE	200	M10X1, 1/8" NPT	SW 11+13	A
101991U	M8X1	WO NIPPLE	300	M10X1, 1/8" NPT	SW 11+13	A
103449	ANGLED M8X1	WO NIPPLE	100	M10X1, G1/8	SW 13+14	B
103448	ANGLED M8X1	WO NIPPLE	200	M10X1, G1/8	SW 13+14	B
101992	ANGLED M8X1	WO NIPPLE	300	M10X1, G1/8	SW 13+14	B
103451	ANGLED M8X1	WO NIPPLE	100	M8X1, 1/8" NPT, G1/8	SW 13+14	B
103450	ANGLED M8X1	WO NIPPLE	200	M8X1, 1/8" NPT, G1/8	SW 13+14	B
102182	ANGLED M8X1	WO NIPPLE	300	M8X1, 1/8" NPT, G1/8	SW 13+14	B
102586	WO NIPPLE	WO NIPPLE	150			

* Length in mm.
The angled hose set includes banjo bolt.

Octo hoses

Crimped flexible hoses



WO- WhizHip Octo
WM- WhizHip Mini
ET- External
IT- Internal

PART NB.	CONNECTOR 1	CONNECTOR 2	LENGTH MM	WRENCH	PIC.
New! 104184	NIPPLE	M8X1 ET	300	11	A
New! 104239	NIPPLE	M8X1 ET	400	11	A
New! 104240	NIPPLE	M8X1 ET	500	11	A
104241	NIPPLE	M8X1 ET	100-1000	11	A
104186	M8X1 ET	M8X1 ET	300	11	B
104242	M8X1 ET	M8X1 ET	400	11	B
104243	M8X1 ET	M8X1 ET	500	11	B
104244	M8X1 ET	M8X1 ET	100-1000	11	B
104421	NIPPLE	NIPPLE	100-1000	11	C

Octo hoses

Octo nozzles external coolant



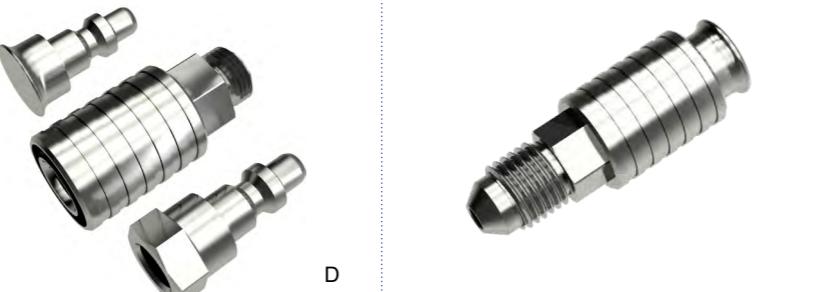
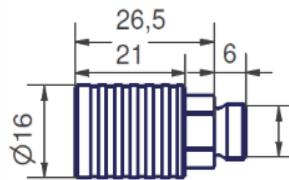
Nozzles | copper, stainless steel, locks with coupling

PART NB	DESCRIPTION	LENGTH	ADDITIONAL INFO
101993	ANGLED PLUG, FLEXIBLE NOZZLE	150	COPPER NOZZLE
102529	ANGLED PLUG, FLEXIBLE AND ADJUSTABLE NOZZLE	200	ADJUSTABLE TIP, STAINLESS
102625	STRAIGHT PLUG, FLEXIBLE, STAINLESS STEEL	200	ADJUSTABLE TIP, STAINLESS

Octo adapters & connectors



Octo coupling set steel quick release



Coupling | stainless steel connection outside thread

INC. SEAL PLUG	COUPLING ONLY	DESCRIPTION	PIC.
New! 104234		COUPLING - M8X1	A
101994	New! 104183	COUPLING - G1/8"	A
101995	New! 204235	COUPLING - M10X1	A
102184	New! 104236	COUPLING - 1/8"NPT	A
103428	New! 104237	COUPLING - AN/JIC4	E
102498	SEE ADAPTORS/BANJO BOLTS	ANGLED COUPLING - M8X1	B
102654	SEE ADAPTORS/BANJO BOLTS	ANGLED COUPLING - G1/8	B
103560	SEE ADAPTORS/BANJO BOLTS	ANGLED COUPLING - 1/8"NPT	B
102038	SEE PLUG+NIPPLES	COUPLING - M8X1 + 102042	D
103729	New! 104238	COUPLING - M8X1 IT	C

Adapters

PART NB.	CONNECTOR 1	CONNECTOR 2	WRENCH
101979	M10X1 ET	M8X1 IT	SW 11
101980	G1/8 ET	M8X1 IT	SW 11
102188	1/8"NPT ET	M8X1 IT	SW 11
102292	G1/4 ET	G1/8 IT	SW 17
102434	M6 ET	M8X1 IT	SW 11
102435	M5 ET	M8X1 IT	SW 11
102585	M8X1 ET	M8X1 IT Ø9,5	SW 11
102864	M8 ET	M8X1 IT	SW 11
102914	UNF7/16-20 ET	G1/8 IT	SW 11
102915	M12 ET	M8X1 IT	SW 14
102931	G1/2 ET	G1/4 IT BRASS	SW 24
102932	G1/2 IT	M16X1,5 IT BRASS	SW 27
103500	M12ET	M8X1 IT	SW 14
102928	COLLET ER16	G1/8 IT	-

PART NB.	CONNECTOR 1	CONNECTOR 2
102042	WO-NIPPLE ET	M8X1 IT
102601	WO-NIPPLE ET	M5 IT
102602	WO-NIPPLE ET	NPT1/4" IT
102683	WO-NIPPLE ET	M8X1 ET
102685	WO-NIPPLE ET	NPT1/8" IT
102913	WO-NIPPLE ET	UNF 7/16 IT

Banjo bolts & angled fittings

PART NBR	DESCRIPTION	PIC.
102475	ANGL. FITTING F. BANJO B. M8X1 IT/10,5Ø	A
101978	BANJO BOLT Ø10,5 M8X1 ET	B
103767	BANJO BOLT Ø10,5 UNJF 5/16"24 ET	B

WO- WhizHip Octo
WM- WhizHip Mini
ET- External
IT- Internal

Seal plug



Seal plug

PART NB.	DESCRIPTION
101919	PLUG, WO NIPPLE

Extras

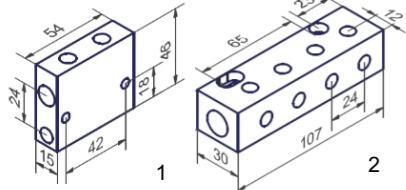
PART NB.	DESCRIPTION
102751	COMPRESSION RING Ø4

Compression ring



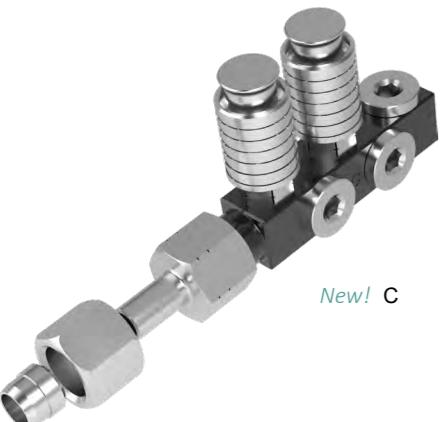
NEW!

Octo manifolds and inlets



A

B



New! C



D



E

Manifolds | block & cylindrical

PART NO	TYPE	OUTLET	INLET TO COOLANT SYSTEM	CONNECTION/FASTENING	PIC
101990	BLOCK	5XG1/8 IT	G1/4	2XSCREWS M5	A
102221	BLOCK	5X1/8"NPT IT	NPT1/4	2XSCREWS M5	A
102533	BLOCK	4XG1/8 IT	G1/8	1XSCREW M5	B
103529	BLOCK	5XG1/8 IT	Ø8	INCOMING HOSE	C
103530	BLOCK	5X1/8"NPT IT	Ø8	INCOMING HOSE	C
101997	BLOCK	8XG1/8 IT	G3/8	2XSCREWS M5	D
102220	BLOCK	8X1/8"NPT IT	NPT3/8	2XSCREWS M5	D
102440	CYLINDRICAL	3XCOUPLINGS	Ø8	INCOMING HOSE	E

WO- WhizHip Octo
WM- WhizHip Mini
ET- External
IT- Internal



Inlet connection feed line

PART NO	PRODUCT NAME	ADDITIONAL INFO
101961	CONNECTION FEED LINE, FLEX-TUBE, 300 MM	ND 5, TUBE STAINLESS STEEL, OUTSIDE END G1/4", PIPE END
102166	CONNECTION FEED LINE, FLEX-TUBE, UP TO 1000 MM	ND 5, TUBE STAINLESS STEEL, OUTSIDE THREAD G1/4", PIPE END
102190	NPT CONNECTION FEED LINE, FLEX-TUBE, 300 MM	ND 5, TUBE STAINLESS STEEL, OUTSIDE THREAD 1/4"NPT, PIPE END
102609	NPT CONNECTION FEED LINE, FLEX-TUBE, UP TO 1000 MM	ND 5, TUBE STAINLESS STEEL, OUTSIDE THREAD 1/4"NPT, PIPE END

Mini hoses, couplings, adapters & connectors pick-and-mix



New! Mini hoses



New! Mini coupling



New! Mini adapters



New! Angled fitting

Mini hoses

PART NBR	CONNECTOR 1	CONNECTOR 2	LENGTH MM
104204	M5 ET	WM NIPPLE	300
104215	M5 ET	WM NIPPLE	400
104216	M5 ET	WM NIPPLE	500
104217	M5 ET	WM NIPPLE	100-1000
104205	M5 ET	M5 ET	300
104218	M5 ET	M5 ET	400
104219	M5 ET	M5 ET	500
104213	M5 ET	M5 ET	100-1000
104214	WM NIPPLE	WM NIPPLE	100-1000

Mini adapters

PART NBR	CONNECTOR 1	CONNECTOR 2	WRENCH
102453	M6	M5 IT	SW 8
102454	M8X1	M5 IT	SW 8
102848	G1/8	M5 IT	SW 8
102940	1/16" NPT	M5 IT	SW 8

Mini coupling | stainless steel outside thread

INC. SEAL PLUG	COUPLING ONLY	DESCRIPTION	PIC
103947	104203	COUPLING-M5 ET	A
104067		ANGLED COUPLING-M5 ET	B

WO- WhizHip Octo
WM- WhizHip Mini
ET- External
IT- Internal



WhizHip Mini nipple

Mini nipples

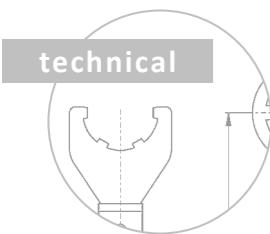
PART NBR	CONNECTOR 1	CONNECTOR 2
102851	PREVIOUS MICRO NIPPLE	M5 IT
104189	WM NIPPLE	M5 IT
102601	WO NIPPLE	M5 IT

Mini Seal plug

PART NBR	DESCRIPTION
103952	SEAL PLUG, WM NIPPLE



WhizHip Mini seal plug



Recommended cutting data

Recommended cutting data J-type Inserts

MATERIAL	HARDNESS HB	FEED RATE MM/REV	UNCOATED M/MIN	COATED M/MIN
HIGH TEMP. ALLOYS	200	0,05-0,12	40-110	50-130
	300	0,05-0,12	25-90	30-110
	400	0,05-0,12	20-65	25-80
BRASS	<110	0,10-0,35	300-700	400-1000
	>110	0,08-0,28	250-500	300-700
COPPER	<100	0,10-0,35	250-500	300-700
	>100	0,08-0,28	175-350	250-500
ALUMINIUM	<100	0,10-0,20	300-700	400-1000
	>100	0,08-0,20	250-500	300-700

MATERIAL	HARDNESS HB	FEED RATE MM/REV	UNCOATED M/MIN	COATED M/MIN
CARBON STEEL	150	0,10-0,22	160-270	200-350
	250	0,08-0,17	120-220	150-275
	350	0,07-0,14	70-140	100-200
ALLOY STEEL	200	0,08-0,20	110-190	150-275
	300	0,07-0,16	70-140	100-200
	400	0,06-0,15	50-100	70-140
STAINLESS STEEL	150	0,08-0,20	110-190	150-275
	250	0,07-0,16	70-140	100-200
	350	0,06-0,15	50-100	70-140
HIGH TEMP. ALLOYS	200	0,05-0,12	40-110	50-130
	300	0,05-0,12	25-90	30-110
	400	0,05-0,12	20-65	25-80
BRASS	<110	0,10-0,35	300-700	400-1000
	>110	0,08-0,28	250-500	300-700
COPPER	<100	0,10-0,35	250-500	300-700
	>100	0,08-0,28	175-350	250-500
ALUMINIUM	<100	0,10-0,20	300-700	400-1000
	>100	0,08-0,20	250-500	300-700

Recommended cutting data K- and H-type inserts

MATERIAL	HARDNESS HB	FEED RATE MM/REV	UNCOATED M/MIN	COATED M/MIN
CARBON STEEL	150	0,07-0,15	130-230	160-270
	250	0,05-0,12	100-190	120-220
	350	0,04-0,10	60-120	70-140
ALLOY STEEL	200	0,05-0,12	90-160	110-190
	300	0,04-0,10	60-120	70-140
	400	0,03-0,08	40-80	50-100
STAINLESS STEEL	150	0,05-0,12	90-160	110-190
	250	0,04-0,10	60-120	70-140
	350	0,03-0,08	40-80	50-100

MATERIAL	HARDNESS HB	FEED RATE MM/REV	UNCOATED M/MIN	COATED M/MIN
HIGH TEMP. ALLOYS	200	0,03-0,09	30-90	40-110
	300	0,03-0,09	20-75	25-90
	400	0,03-0,09	15-50	20-65
BRASS	<110	0,07-0,25	250-500	300-700
	>110	0,05-0,20	175-350	250-500
COPPER	<100	0,07-0,25	200-400	250-500
	>100	0,05-0,20	140-280	175-350
ALUMINIUM	<100	0,07-0,15	250-600	300-700
	>100	0,06-0,15	175-400	250-500

Recommended cutting data T-type inserts

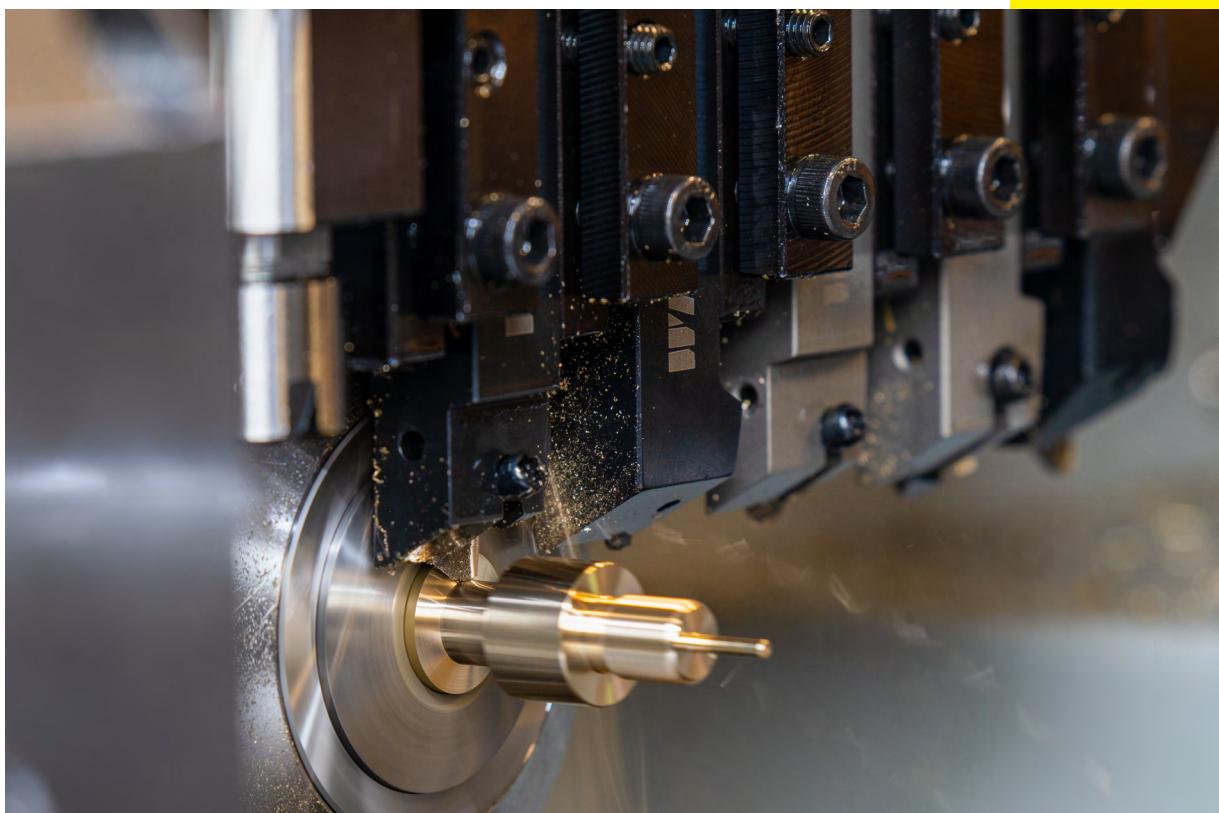
MATERIAL	HARDNESS HB	FEED RATE MM/REV	UNCOATED M/MIN	COATED M/MIN
CARBON STEEL	150	0,07-0,15	130-230	160-270
	250	0,05-0,12	100-190	120-220
	350	0,04-0,10	60-120	70-140
ALLOY STEEL	200	0,05-0,12	90-160	110-190
	300	0,04-0,10	60-120	70-140
	400	0,03-0,08	40-80	50-100
STAINLESS STEEL	150	0,05-0,12	90-160	110-190
	250	0,04-0,10	60-120	70-140
	350	0,03-0,08	40-80	50-100

MATERIAL	HARDNESS HB	FEED RATE MM/REV	UNCOATED M/MIN	COATED M/MIN
HIGH TEMP. ALLOYS	200	0,03-0,09	30-90	40-110
	300	0,03-0,09	20-75	25-90
	400	0,03-0,09	15-50	20-65
BRASS	<110	0,07-0,25	250-500	300-700
	>110	0,05-0,20	175-350	250-500
COPPER	<100	0,07-0,25	200-400	250-500
	>100	0,05-0,20	140-280	175-350
ALUMINIUM	<100	0,07-0,15	250-600	300-700
	>100	0,06-0,15	175-400	250-500

Recommended cutting data WhizIn

Turning, copyturning etc.

HARDNESS	FEED RATE	UNCOATED COATED	
		HB	MM/REV M/MIN M/MIN
CARBON STEEL	150	0,10-0,22	160-270 200-350
	250	0,08-0,17	120-220 150-275
	350	0,07-0,14	70-140 100-200
ALLOY STEEL	200	0,08-0,20	110-190 150-275
	300	0,07-0,16	70-140 100-200
	400	0,06-0,15	50-100 70-140
STAINLESS STEEL	150	0,08-0,20	110-190 150-275
	250	0,07-0,16	70-140 100-200
	350	0,06-0,15	50-100 70-140
HIGH TEMP. ALLOYS	200	0,05-0,12	40-110 50-130
	300	0,05-0,12	25-90 30-110
	400	0,05-0,12	20-65 25-80
BRASS	<110	0,10-0,35	300-700 400-1000
	>110	0,08-0,28	250-500 300-700



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