

CARBIDE THREAD MILLS



P	H	M	S	K	N
Steel	Hardened Steel	Stainless Steel	HRSA's	Cast Iron	Non Ferrous





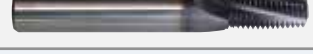
Solid Carbide Thread Mills for the machining of threads from 0.25 to 3.0mm pitch (72 to 8TPI). Specific ranges are available for materials including heat resistant super alloys, aluminium & hardened steels. With a specially developed high performance coating to prevent built up edge and improve thread quality.

THREAD FORMS

M METRIC	P926	BSP(G) BRITISH STANDARD GAS	P938
UN UNIFIED NATIONAL	P934	BSW BRITISH STANDARD WHITWORTH	P938
UNJ UNIFIED NATIONAL	P937	BSPT BRITISH STANDARD PIPE TAPER	P940
MJ METRIC	P937	NPT NATIONAL PIPE TAPER	P941
		NPTF NATIONAL PIPE TAPER FUEL	P941



TOOL SELECTION

Description		Sizes	Page
M METRIC DIN 13 HELICAL FLUTES PLAIN SHANK • SOLID & THROUGH COOLANT		M 4-24 MF 6-80	926
M METRIC DIN 13 3 TOOTH MICRO MILL PLAIN SHANK • SOLID		M 1.2-20 MF 3.5-48	927
M METRIC DIN 13 HELICAL FLUTES WITH CHAMFER PLAIN SHANK • SOLID		M 5-10 MF 6-40	928
M METRIC DIN 13 VARIABLE HELIX PLAIN SHANK • RADIAL THROUGH COOLANT		M 8-20 MF 8-80	929
M METRIC DIN 13, HARDENED STEEL PLAIN SHANK • SOLID		M 5-16 MF 8-80	930
M METRIC DIN 13 3 TOOTH MICRO MILL HARDENED STEEL PLAIN SHANK • SOLID		M 2-12 MF 3.5-48	931
M METRIC DIN 13 THRILLER DRILL, CHAMFER & THREAD PLAIN SHANK • THROUGH COOLANT		M 4-16	932
M METRIC DIN 13 1 TOOTH LONG REACH PLAIN SHANK • SOLID		M 6-20 MF 8-48	933
UN UNIFIED NATIONAL ANSI B1.1:74 HELICAL FLUTES PLAIN SHANK • SOLID & THROUGH COOLANT		1/4"-1" UNC 1/4"-1-1/2" UNF	934
UN UNIFIED NATIONAL ANSI B1.1:74 3 TOOTH MICRO MILL PLAIN SHANK • SOLID		No.1-7/16 UNC No.0-7/16 UNF	935
UN UNIFIED NATIONAL ANSI B1.1:74 VARIABLE HELIX PLAIN SHANK • RADIAL THROUGH COOLANT		9/16"-1" UNC 9/16"-1 1/2" UNF	936
UNJ UNIFIED NATIONAL MIL-S-8879C 3 TOOTH MICRO MILL PLAIN SHANK • SOLID		No.6-1/2 UNJC No.10-7/8 UNJF	937
MJ METRIC DIN ISO 5855 3 TOOTH MICRO MILL PLAIN SHANK • SOLID		3-16 MJ	937
BSP (G) BRITISH STANDARD GAS B.S.2779:1956 HELICAL FLUTES PLAIN SHANK • SOLID & THROUGH COOLANT		1/8"-1" BSP	938
BSW BRITISH STANDARD WHITWORTH B.S.84:1956 DIN 259 HELICAL FLUTES PLAIN SHANK • SOLID		1/4"-11/16" BSW 1/4"-7/8" BSF	938
BSP (G) BRITISH STANDARD GAS B.S.2779:1956 VARIABLE HELIX PLAIN SHANK • RADIAL THROUGH COOLANT		1/8"-1" BSP	939
BSPT BRITISH STANDARD PIPE TAPER B.S.21:1985 HELICAL FLUTES PLAIN SHANK • SOLID & THROUGH COOLANT		1/16"-1" BSPT	940
1:16 TAPER END MILLS FOR BSPT, NPT & NPTF THREADS PLAIN SHANK • SOLID		5.3-18mm	940
NPT NATIONAL PIPE TAPER B2.1:1965 HELICAL FLUTES PLAIN SHANK • SOLID & THROUGH COOLANT		1/16"-1" NPT	941
NPTF NATIONAL PIPE TAPER FUEL ANSI 1.20.3-1 HELICAL FLUTES PLAIN SHANK • SOLID		1/16"-1" NPTF	941

CARBIDE THREAD MILLS

HIGHLIGHTS

SECTION
INDEX

HELICAL FLUTES SOLID

TNF Coated thread mills for general thread milling of steels, stainless steel, HRSA's, cast iron and non-ferrous materials.



P H M S K N

HELICAL FLUTES AXIAL THROUGH COOLANT

TNF Coated thread mills for general thread milling of steels, stainless steel, HRSA's, cast iron and non-ferrous materials.

Through coolant ideal for increasing tool life and improving chip evacuation in blind holes.



P H M S K N

VARIABLE HELIX RADIAL THROUGH COOLANT

High performance thread mills with polished TNF Coating. Suitable for steels, stainless steel, HRSA's, cast iron and non-ferrous materials.

Variable helix reduces vibration and radial coolant holes improve chip evacuation in through holes.



P H M S K N

HELICAL FLUTES WITH 45° CHAMFER

TNF Coated thread mills with 45° chamfer to produce thread and chamfer in 1 hit. For general thread milling of steels, stainless steel, HRSA's, cast iron and non-ferrous materials.



P H M S K N

HELICAL FLUTES FOR HARDENED STEEL

TX Coated thread mills for high performance thread milling of hardened steels (HRC45-65). Featuring an additional flute to standard thread mills and a special coating designed specifically for hardened steels.



P H M S K N

THRILLER DRILL, CHAMFER & THREAD

Special 'Thriller' design for drilling, chamfering and thread milling with 1 tool.

2 flute polished design ideal for aluminium or soft steels..



P H M S K N

MINIATURE STYLE WITH 3 TEETH

TNF Coated thread mills for general thread milling of steels, stainless steel, HRSA's, cast iron and non-ferrous materials. Available in 2xD or 3xD lengths.



P H M S K N

MINIATURE STYLE FOR HARDENED STEEL

TX Coated thread mills for high performance thread milling of hardened steels (HRC45-65). Featuring an additional flute to standard thread mills and a special coating designed specifically for hardened steels. Available in 2xD or 3xD lengths.



P H M S K N

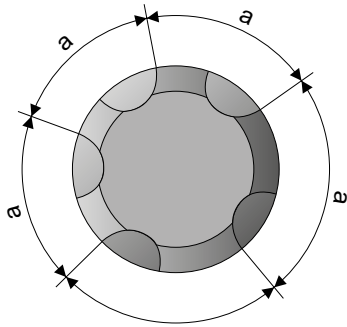
LONG REACH 1 TOOTH STYLE

TNF Coated single tooth thread mills for general thread milling of steels, stainless steel, HRSA's, cast iron and non-ferrous materials. Available in 3xD lengths.



P H M S K N

VARIABLE HELIX THREAD MILL ADVANTAGES



UNEQUAL SPACING Significant reduction in vibration. Very smooth cutting action. Reduction in the cutting forces avoids tool deflection.



RADIAL COOLANT HOLES improve chip evacuation & increase tool life, especially in stainless steel & exotic materials.

THRILLER OPERATING CYCLE DRILL, CHAMFER & THREAD WITH 1 TOOL

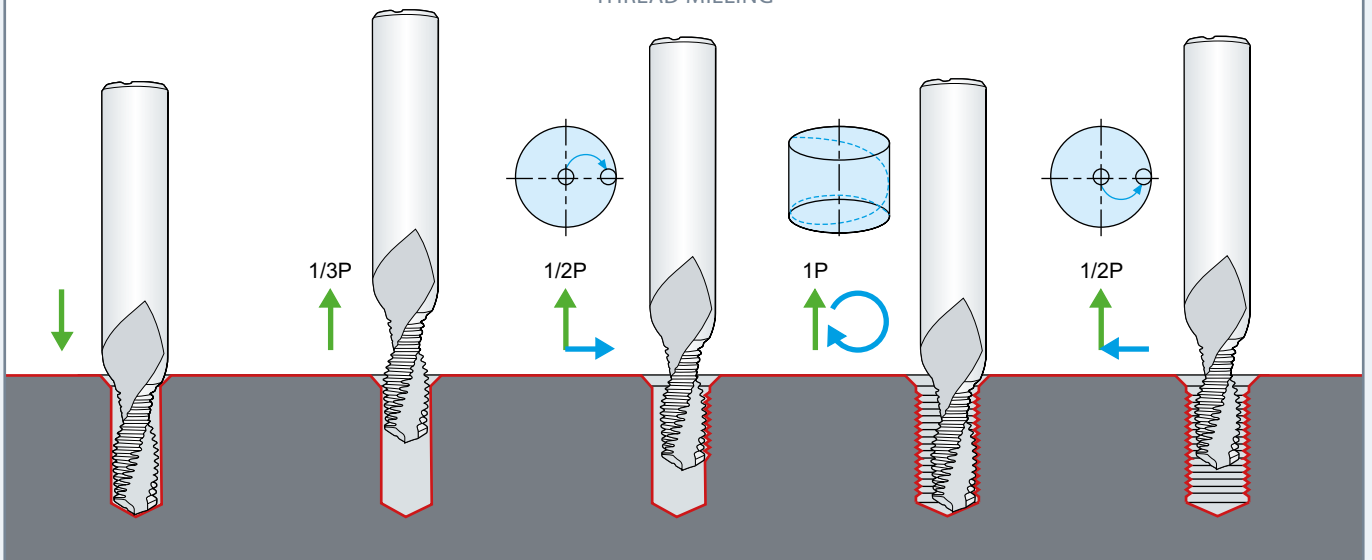
DRILL & CHAMFER

BACKING OFF

ENTRANCE ARC FOR
THREAD MILLING

THREAD MILLING

EXIT ARC



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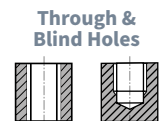
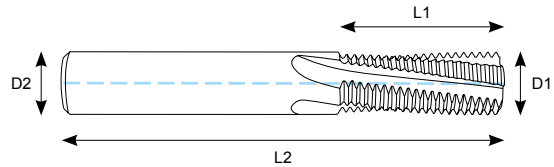
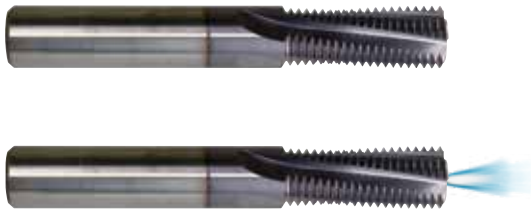
M METRIC DIN 13 HELICAL FLUTES



For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45

SECTION INDEX

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand threads
- ▶ Available in internal and external
- ▶ Optional through coolant



THREAD		Pitch mm	D1	D2	L1	L2	No. of Flutes	SOLID		THROUGH COOLANT	
M Coarse	M Fine							ORDER CODE	PRICE	ORDER CODE	PRICE
INTERNAL 1.5xD MAX DEPTH											
M4x0.70	-	0.70	3.10	6	5	52	3	CTM-METHF50T	▲	-	-
M5x0.80	-	0.80	4.00	6	6	49	3	CTM-METHF52T	▲	CTM-METHF52TCF	▲
M6x1.0	MF8-40x1.0	1.00	4.50	6	7	50	3	CTM-METHF58T	▲	CTM-METHF58TCF	▲
M8x1.25	-	1.25	6.00	6	9	49	3	CTM-METHF66T	▲	CTM-METHF66TCF	▲
M10x1.5	MF10-48x1.5	1.50	8.00	8	12	58	3	CTM-METHF76T	▲	CTM-METHF76TCF	▲
M12x1.75	MF12-48x1.75	1.75	8.00	8	12	58	3	CTM-METHF78T	▲	CTM-METHF78TCF	▲
M14x2.0	MF17-80x2.0	2.00	10.00	10	15	70	4	CTM-METHF88T	▲	CTM-METHF88TCF	▲
M16x2.0	MF17-80x2.0	2.00	12.00	12	18	70	4	CTM-METHF96T	▲	CTM-METHF96TCF	▲
INTERNAL 2xD MAX DEPTH											
-	MF6-16x0.5	0.50	4.50	6	12	55	3	CTM-METHF27T	▲	-	-
-	MF8-16x0.5	0.50	6.00	6	12	55	3	CTM-METHF07T	▲	-	-
-	MF10-16x0.5	0.50	8.00	8	20	65	3	CTM-METHF13T	▲	-	-
M4x0.50	-	0.70	3.10	6	8	55	3	CTM-METHF03T	▲	-	-
-	MF6x0.75	0.75	4.50	6	12	55	3	CTM-METHF01T	▲	-	-
M5x0.80	-	0.80	4.00	6	12	55	3	CTM-METHF00T	▲	CTM-METHF00TCF	▲
M6x1.0	MF8-40x1.0	1.00	4.50	6	12	55	3	CTM-METHF02T	▲	CTM-METHF02TCF	▲
-	MF8-40x1.0	1.00	6.00	6	15	55	3	CTM-METHF05T	▲	-	-
-	MF10-40x1.0	1.00	8.00	8	20	65	3	CTM-METHF09T	▲	-	-
-	MF12-40x1.0	1.00	10.00	10	25	80	4	CTM-METHF14T	▲	-	-
M8x1.25	-	1.25	6.00	6	15	55	3	CTM-METHF06T	▲	CTM-METHF06TCF	▲
-	MF10x1.25	1.25	8.00	8	20	65	3	CTM-METHF10T	▲	-	-
M10x1.5	MF12-48x1.5	1.50	8.00	8	20	65	3	CTM-METHF11T	▲	CTM-METHF11TCF	▲
-	MF14-48x1.5	1.50	12.00	12	30	82	4	CTM-METHF20T	▲	-	-
-	MF16-48x1.5	1.50	14.00	14	35	100	4	CTM-METHF24T	▲	-	-
M12x1.75	-	1.75	8.00	8	20	65	3	CTM-METHF12T	▲	CTM-METHF12TCF	▲
M14x2.0	MF17-80x2.0	2.00	10.00	10	25	80	4	CTM-METHF17T	▲	CTM-METHF17TCF	▲
M16x2.0	MF17-80x2.0	2.00	12.00	12	30	82	4	CTM-METHF21T	▲	CTM-METHF21TCF	▲
-	MFF20-80x2.0	2.00	16.00	16	40	100	5	CTM-METHF30T	▲	-	-
M18-M22x2.5	-	2.50	14.00	14	35	100	4	CTM-METHF26T	▲	-	-
M20-M22x2.5	-	2.50	16.00	16	40	100	5	CTM-METHF31T	▲	-	-
M24x3.0	-	3.00	20.00	20	40	110	5	CTM-METHF36T	▲	-	-
EXTERNAL 2xD MAX DEPTH											
M6x1.0	MF8-40x1.0	1	8.0	8	20	65	3	CTM-METHFEX17T	▲	-	-
M8x1.25	-	1.25	10.0	10	25	80	4	CTM-METHFEX19T	▲	-	-
M10x1.5	MF12-48x1.5	1.5	12.0	12	30	82	4	CTM-METHFEX21T	▲	-	-
M12x1.75	-	1.75	14.0	14	35	100	4	CTM-METHFEX23T	▲	-	-
M14x2.0	MF17-80x2.0	2	16.0	16	40	100	5	CTM-METHFEX25T	▲	-	-
M20-M22x2.5	-	2.5	18.0	18	40	110	5	CTM-METHFEX27T	▼	-	-
M24x3.0	-	3	20.0	20	40	110	5	CTM-METHFEX29T	▼	-	-

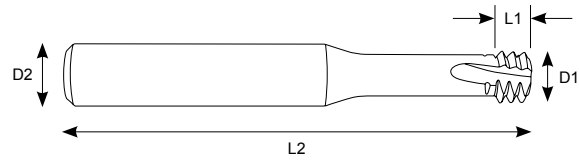
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M METRIC DIN 13 3 TOOTH MICRO MILL

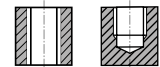


For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand internal threads
- ▶ Miniature style (3 tooth)



Through & Blind Holes



THREAD		Pitch mm	D1	D2	L1	L2	No. of Flutes	SOLID	
M Coarse	M Fine							ORDER CODE	PRICE
INTERNAL 2xD Max Depth									
M1.2x0.25	-	0.25	0.90	3	3.00	39	3	CTM-MET3T01T	▲
M1.4x0.30	-	0.30	1.05	3	3.00	39	3	CTM-MET3T02T	▲
M1.6x0.35	-	0.35	1.20	3	4.50	39	3	CTM-MET3T04T	▲
M2x0.40	-	0.40	1.55	3	4.50	39	3	CTM-MET3T03T	▲
M2.2x0.45	-	0.45	1.65	6	5.00	54	3	CTM-MET3T05T	▲
M3x0.50	MF3.5-16x0.5	0.50	2.35	6	6.50	54	3	CTM-MET3T09T	▲
M4x0.70	-	0.70	3.10	6	9.00	54	3	CTM-MET3T13T	▲
M5x0.80	-	0.80	3.80	6	12.50	54	3	CTM-MET3T15T	▲
M6x1.00	MF8-40x1.0	1.00	4.65	6	14.00	54	3	CTM-MET3T17T	▲
M8x1.25	-	1.25	5.95	6	18.00	54	3	CTM-MET3T19T	▲
M10x1.50	MF12-48x1.5	1.50	7.80	8	23.00	64	3	CTM-MET3T21T	▲
M12x1.75	-	1.75	9.00	10	26.00	73	3	CTM-MET3T23T	▲
M16x2.00	-	2.00	11.80	12	35.00	80	4	CTM-MET3T25T	▲
M20x2.50	-	2.50	15.00	16	43.00	100	5	CTM-MET3T27T	▲
INTERNAL 3xD Max Depth									
M1.2x0.25	-	0.25	0.90	3	4.00	39	3	CTM-MET3T28T	▼
M1.4x0.30	-	0.30	1.05	3	4.00	39	3	CTM-MET3T29T	▼
M1.6x0.35	-	0.35	1.20	3	5.00	39	3	CTM-MET3T31T	▼
M2x0.40	-	0.40	1.55	3	6.00	39	3	CTM-MET3T33T	▲
M3x0.50	MF3.5-16x0.5	0.50	2.35	6	9.50	54	3	CTM-MET3T37T	▲
M3.5x0.60	-	0.60	2.75	6	10.00	54	3	CTM-MET3T38T	▲
M4x0.70	-	0.70	3.10	6	12.50	54	3	CTM-MET3T39T	▲
M4.5x0.75	-	0.75	3.40	6	14.00	54	3	CTM-MET3T40T	▼
M5x0.80	-	0.80	3.80	6	16.00	54	3	CTM-MET3T41T	▲
M6x1.00	MF8-40x1.0	1.00	4.65	6	20.00	54	3	CTM-MET3T43T	▲
M8x1.25	-	1.25	5.95	6	24.00	54	3	CTM-MET3T45T	▲

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*Exclusions apply.



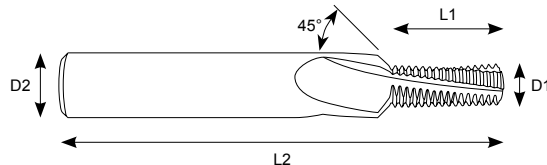
M METRIC DIN 13 HELICAL FLUTE WITH 45° CHAMFER



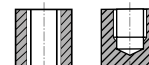
For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45

SECTION INDEX

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand internal threads
- ▶ Helical flute with integral chamfer



Through & Blind Holes



MG SC 3 R HELIX HRc <45 60° TNF COATED P943

THREAD		Pitch mm	D1	D2	L1	L2	No. of Flutes	SOLID	PRICE
M Coarse	M Fine							ORDER CODE	
INTERNAL 2xD Max Depth									
M5x0.80	-	0.80	4.00	6	10.75	55	3	CTM-METHFCMF50T	▲
-	MF6x0.75	0.75	5.00	8	12.30	62	3	CTM-METHFCMF52T	▲
M6x1.0	MF8-40x1.0	1.00	4.80	8	12.40	62	3	CTM-METHFCMF54T	▲
M8x1.25	-	1.25	6.50	10	16.80	74	3	CTM-METHFCMF58T	▲
M10x1.5	-	1.5	8.2	12	20.15	80	3	CTM-METHFCMF64T	▲

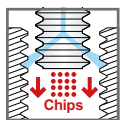
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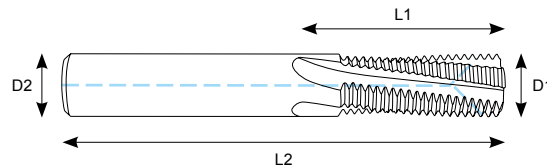
M METRIC DIN 13 VARIABLE HELIX RADIAL COOLANT



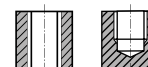
High Performance Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45



- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand internal threads
- ▶ Variable helix design reduces vibration
- ▶ Radial coolant holes for improved chip evacuation of through holes



Through & Blind Holes

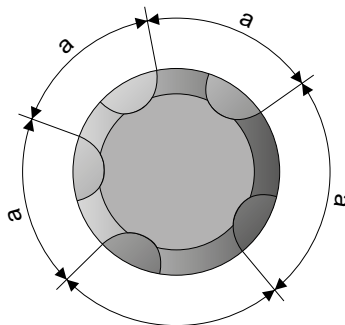


THREAD		Pitch mm	D1	D2	L1	L2	No. of Flutes	RADIAL COOLANT	
M Coarse	M Fine							ORDER CODE	PRICE
INTERNAL 2xD Max Depth									
-	MF8-40x1.0	1.00	6.00	6	15	55	3	CTM-MET05VHR	▲
-	MF10-40x1.0	1.00	8.00	8	20	65	3	CTM-MET09VHR	▲
-	MF12-40x1.0	1.00	10.00	10	25	80	4	CTM-MET14VHR	▲
M8x1.25	MF10x1.25	1.25	6.00	6	15	55	3	CTM-MET06VHR	▲
M10x1.5	MF12-48x1.5	1.50	8.00	8	20	65	3	CTM-MET11VHR	▲
-	MF12-48x1.5	1.50	10.00	10	25	80	4	CTM-MET16VHR	▲
M12x1.75	-	1.75	8.00	8	20	65	3	CTM-MET12VHR	▲
M16x2.0	MF17-80x2.0	2.00	12.00	12	30	82	4	CTM-MET21VHR	▲
M20x2.5	MF17-80x2.0	2.50	16.00	16	40	100	5	CTM-MET31VHR	▲

▲ UK stock - Generally x-stock for next day delivery

▼ European stock - Generally 2-3 days delivery (please check for lead times)

VARIABLE HELIX THREAD MILL ADVANTAGES



UNEQUAL SPACING Significant reduction in vibration. Very smooth cutting action. Reduction in the cutting forces avoids tool deflection.



RADIAL COOLANT HOLES improve chip evacuation & increase tool life, especially in stainless steel & exotic materials.

THREAD & GROOVE MILLING

TOOL HOLDING



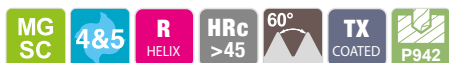
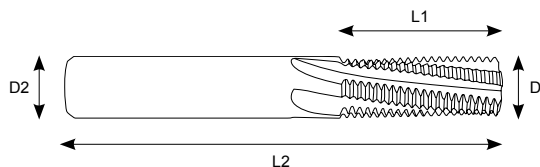
M METRIC DIN 13, HARDENED STEEL



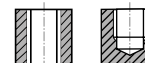
TX Coated Carbide Thread Mills for Hardened Steel Applications >HRc45

SECTION INDEX

- ▶ Suitable for right and left hand internal threads
- ▶ 4-5 flute design for additional strength
- ▶ Helical flute



Through & Blind Holes



THREAD		Pitch mm	D1	D2	L1	L2	No. of Flutes	SOLID	
M Coarse	M Fine							ORDER CODE	PRICE
INTERNAL 2xD Max Depth									
M5x0.8	-	0.8	4.0	6	12	55	4	CTM-METHF50HS	▲
M6x1.0	MF8-40x1.0	1.0	4.5	6	12	55	4	CTM-METHF54HS	▲
M8x1.25	MF10x1.25	1.25	6.0	6	15	55	4	CTM-METHF60HS	▲
M10x1.5	MF10-48x1.5	1.5	8.0	8	20	65	4	CTM-METHF68HS	▲
M12x1.75	MF12-48x1.75	1.75	8.0	8	20	65	4	CTM-METHF70HS	▲
M14x2.0	MF17-80x2.0	2.0	10.0	10	25	80	5	CTM-METHF78HS	▲
M16x2.0	MF17-80x2.0	2.0	12.0	12	30	82	5	CTM-METHF84HS	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

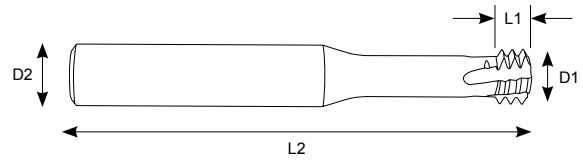


M METRIC DIN 13 3 TOOTH MICRO MILL HARDENED STEEL

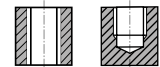


TX Coated Carbide Thread Mills for Hardened Steel Applications >HRc45

- ▶ Suitable for right and left hand internal threads
- ▶ 4 flute design for additional strength
- ▶ Miniature style (3 tooth)



Through & Blind Holes



THREAD		Pitch mm	D1	D2	L1	L2	No. of Flutes	SOLID	
M Coarse	M Fine							ORDER CODE	PRICE
INTERNAL 2xD Max Depth									
M2x0.40	-	0.40	1.55	3	4.50	39	4	CTM-MET3T03HS	▼
M2.5x0.45	-	0.45	1.95	6	5.50	54	4	CTM-MET3T07HS	▼
M3x0.50	MF3.5-16x0.5	0.50	2.35	6	6.50	54	4	CTM-MET3T09HS	▲
M4x0.70	-	0.70	3.10	6	9.00	54	4	CTM-MET3T13HS	▲
M5x0.80	-	0.80	3.80	6	12.50	54	4	CTM-MET3T15HS	▲
M6x1.00	MF8-40x1.0	1.00	4.65	6	14.00	54	4	CTM-MET3T17HS	▲
M8x1.25	-	1.25	5.95	6	18.00	54	4	CTM-MET3T19HS	▲
M10x1.50	MF12-48x1.5	1.50	7.80	8	23.00	64	4	CTM-MET3T21HS	▲
M12x1.75	-	1.75	9.00	10	26.00	73	4	CTM-MET3T23HS	▲
INTERNAL 3xD Max Depth									
M2x0.40	-	0.40	1.55	3	6.00	39	3	CTM-MET3T33HS	▼
M2.5x0.45	-	0.45	1.95	6	7.50	54	3	CTM-MET3T35HS	▼
M3x0.50	MF3.5-16x0.5	0.50	2.35	6	9.50	54	3	CTM-MET3T37HS	▲
M4x0.70	-	0.70	3.10	6	12.50	54	3	CTM-MET3T39HS	▲
M4.5x0.75	-	0.75	3.40	6	14.00	54	3	CTM-MET3T41HS	▼
M5x0.80	-	0.80	3.80	6	16.00	54	3	CTM-MET3T43HS	▲
M6x1.00	MF8-40x1.0	1.00	4.65	6	20.00	54	3	CTM-MET3T45HS	▲
M8x1.25	-	1.25	5.95	6	24.00	54	3	CTM-MET3T47HS	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

3 TOOTH MICRO MILL HARDENED STEEL PROGRAMMING

MINI THREAD MILLS FOR HARDENED STEEL ARE LEFT HANDED

- ▶ For CNC use M04 code.
- ▶ The work direction should be from the top to the bottom (Climb Milling).



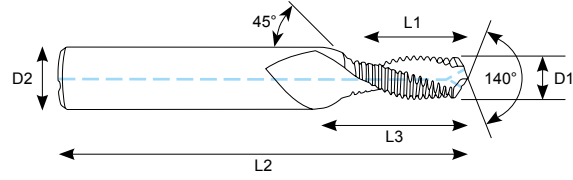
M METRIC DIN 13 THRILLER DRILL, CHAMFER & THREAD ALU



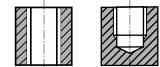
Uncoated Carbide for Drilling, Chamfering & Thread Milling Aluminium & Soft Steels in 1 Operation

SECTION INDEX

- ▶ Suitable for right and left hand internal threads
- ▶ Helical 2 flute design



Through & Blind Holes

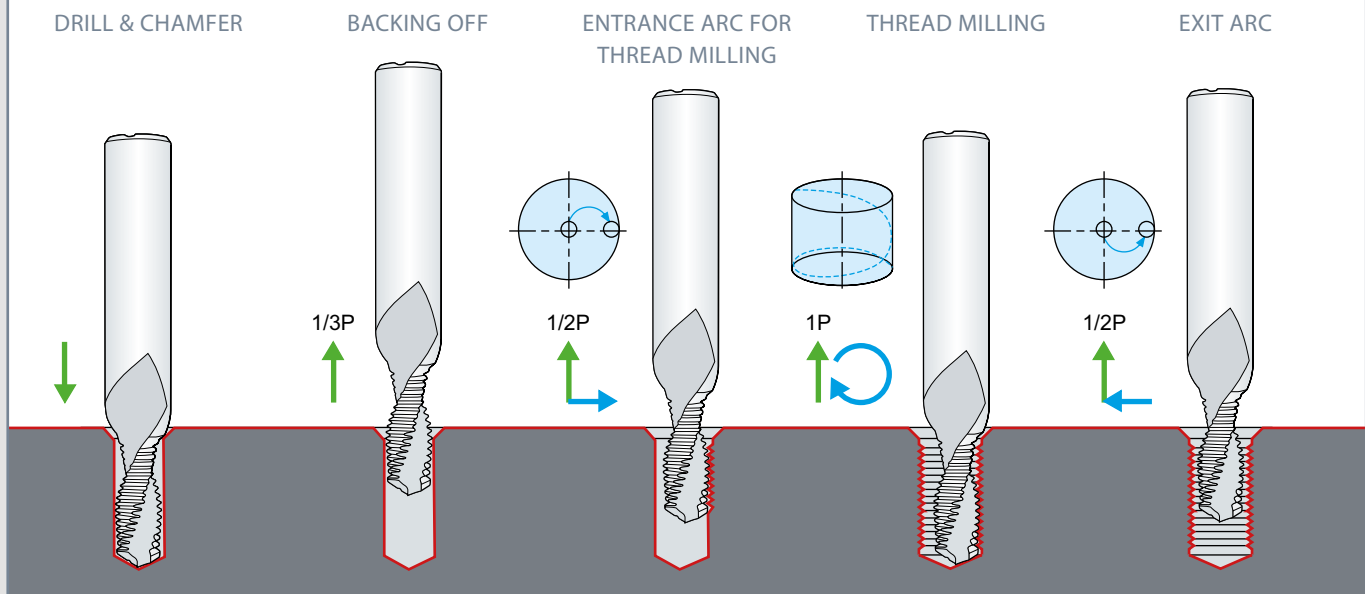


*for these thread sizes only

THREAD M Coarse*	Pitch mm	D1	D2	L1	L2	L3	No. of Flutes	THROUGH COOLANT	
								ORDER CODE	PRICE
INTERNAL 2xD Max Depth									
M4x0.7	0.70	3.30	6	7.65	55	9.000	2	CTM-METDTC51NF	▲
M5x0.8	0.80	4.20	6	9.55	55	11.250	2	CTM-METDTC53NF	▲
M6x1.0	1.00	5.00	8	12.05	62	13.950	2	CTM-METDTC56NF	▲
M8x1.25	1.25	6.75	10	15.07	74	17.525	2	CTM-METDTC60NF	▲
M10x1.5	1.50	8.50	12	19.58	79	22.700	2	CTM-METDTC66NF	▲
M12x1.75	1.75	10.25	14	22.85	89	26.475	2	CTM-METDTC74NF	▲
M14x2.0	2.00	12.00	16	28.11	102	32.350	2	CTM-METDTC75NF	▲
M16x2.0	2.00	14.00	18	32.11	102	36.750	2	CTM-METDTC80NF	▲
INTERNAL 2.5xD Max Depth									
M6x1.0	1.00	5.00	8	15.10	62	16.950	2	CTM-METDTC82NF	▲
M8x1.25	1.25	6.75	10	20.08	74	22.525	2	CTM-METDTC84NF	▲
M10x1.5	1.50	8.50	12	25.59	79	28.700	2	CTM-METDTC86NF	▲
M12x1.75	1.75	10.25	14	29.86	89	33.475	2	CTM-METDTC88NF	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

THRILLER OPERATING CYCLE DRILL, CHAMFER & THREAD WITH 1 TOOL

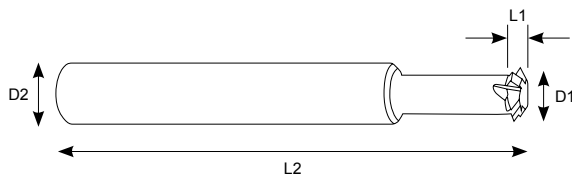


M METRIC DIN 13 1 TOOTH LONG REACH

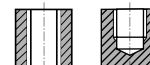


For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRC45

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand internal threads
- ▶ Long reach for deep hole threading (1 tooth)



Through & Blind Holes



MG SC 3-5 R HELIX HRC <45 60° TNF COATED P942

THREAD		Pitch mm	D1	D2	L1	L2	No. of Flutes	SOLID	
M Coarse	M Fine							ORDER CODE	PRICE
INTERNAL 3xD Max Depth									
M6x1	MF8-40x1.0	1	4.1	8	19	63	3	CTM-METLR03T	▲
M8x1.25	-	1.25	5.8	10	26	73	3	CTM-METLR05T	▲
M10x1.5	MF12-48x1.5	1.5	7.7	10	32	73	3	CTM-METLR07T	▲
-	MF12-48x1.5	1.5	9.4	12	38	83	4	CTM-METLR09T	▲
M12x1.75	-	1.75	8.7	12	38	83	4	CTM-METLR11T	▲
M14x2, M16x2	-	2	10.2	16	44	92	4	CTM-METLR13T	▲
M16x2	-	2	12.2	16	50	100	4	CTM-METLR15T	▲
M18x2.5, M20x2.5	-	2.5	12.9	16	57	108	5	CTM-METLR17T	▲
M20x2.5	-	2.5	14.8	16	63	114	5	CTM-METLR19T	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)



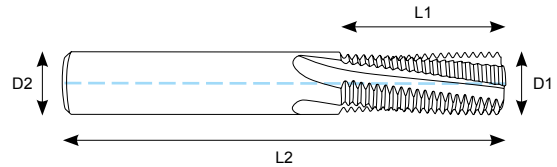
UN UNIFIED NATIONAL ANSI B1.1:74 HELICAL FLUTES



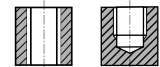
For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRC45

SECTION INDEX

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand internal threads
- ▶ Helical flute
- ▶ Optional through coolant for improved chip evacuation in blind holes



Through & Blind Holes



THREAD		Pitch TPI	D1	D2	L1	L2	No. of Flutes	SOLID		THROUGH COOLANT			
UNC	UNF							ORDER CODE	PRICE	ORDER CODE	PRICE		
INTERNAL 1.5xD Max Depth													
-	5/16" UNF	24	5.50	6	9	49	3	CTM-UNHF56T	▲	£83.89	CTM-UNHF56TCF	▲	£97.87
-	3/8" UNF	24	8.00	8	12	58	3	CTM-UNHF64T	▲	£97.87	CTM-UNHF64TCF	▲	£111.84
1/4" UNC	7/16"-1/2" UNF	20	4.50	6	7	50	3	CTM-UNHF50T	▲	£69.90	CTM-UNHF50TCF	▲	£83.89
5/16" UNC	9/16"-5/8" UNF	18	5.50	6	9	49	3	CTM-UNHF54T	▲	£83.89	CTM-UNHF54TCF	▲	£97.87
3/8" UNC	3/4" UNF	16	7.50	8	12	58	3	CTM-UNHF58T	▲	£97.87	CTM-UNHF58TCF	▲	£111.84
7/16" UNC	7/8" UNF	14	8.00	8	12	58	3	CTM-UNHF60T	▲	£97.87	CTM-UNHF60TCF	▲	£111.84
1/2" UNC	-	13	10.00	10	15	70	4	CTM-UNHF68T	▲	£123.07	CTM-UNHF68TCF	▲	£139.81
9/16" UNC	1"-1 1/2" UNF	12	10.00	10	15	70	4	CTM-UNHF66T	▲	£123.07	CTM-UNHF66TCF	▲	£139.81
INTERNAL 2xD Max Depth													
-	No.12. 1/4" UNF	28	4.50	6	12	55	3	CTM-UNHF03T	▲	£69.90	-	-	-
-	5/16"-3/8" UNF	24	5.50	6	15	55	3	CTM-UNHF09T	▲	£83.89	-	-	-
-	5/16"-3/8" UNF	24	8.00	8	20	65	3	CTM-UNHF15T	▲	£97.87	-	-	-
1/4" UNC	7/16"-1/2" UNF	20	4.50	6	12	55	3	CTM-UNHF01T	▲	£69.90	CTM-UNHF01TCF	▲	£83.89
-	7/16"-1/2" UNF	20	10.00	10	25	80	4	CTM-UNHF23T	▲	£123.07	-	-	-
5/16" UNC	9/16" UNF	18	5.50	6	15	55	3	CTM-UNHF07T	▲	£83.89	CTM-UNHF07TCF	▲	£97.87
-	9/16" UNF	18	12.00	12	30	82	4	CTM-UNHF25T	▲	£153.79	-	-	-
3/8" UNC	3/4" UNF	16	7.50	8	20	65	3	CTM-UNHF05T	▲	£97.87	CTM-UNHF05TCF	▲	£111.84
-	3/4" UNF	16	15.50	16	40	100	5	CTM-UNHF29T	▲	£209.71	-	-	-
7/16" UNC	7/8" UNF	14	8.00	8	20	65	3	CTM-UNHF11T	▲	£97.87	CTM-UNHF11TCF	▲	£111.84
-	7/8" UNF	14	18.00	18	40	110	5	CTM-UNHF37T	▲	£240.52	-	-	-
1/2" UNC	-	13	10.00	10	25	80	4	CTM-UNHF19T	▲	£123.07	CTM-UNHF19TCF	▲	£139.81
9/16" UNC	1"-1 1/2" UNF	12	10.00	10	25	80	4	CTM-UNHF17T	▲	£123.07	CTM-UNHF17TCF	▲	£139.81
-	1"-1 1/2" UNF	12	20.00	20	40	110	5	CTM-UNHF41T	▲	£271.26	-	-	-
5/8" UNC	-	11	12.00	12	30	82	4	CTM-UNHF27T	▲	£153.79	CTM-UNHF27TCF	▲	£167.76
3/4" UNC	-	10	15.50	16	40	100	5	CTM-UNHF31T	▲	£209.71	CTM-UNHF31TCF	▲	£234.91
7/8" UNC	-	9	18.00	18	40	110	5	CTM-UNHF35T	▲	£240.52	CTM-UNHF35TCF	▲	£268.49
1" UNC	-	8	20.00	20	40	110	5	CTM-UNHF39T	▲	£271.26	CTM-UNHF39TCF	▲	£307.68

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)



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ON ORDERS OVER £75 PLACED BEFORE 6PM

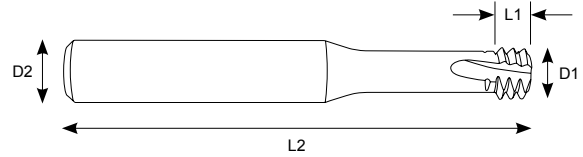
*Exclusions apply.

UN UNIFIED NATIONAL ANSI B1.1:74 3 TOOTH MICRO MILL

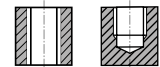


For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRC45

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand internal threads
- ▶ Miniature style (3 tooth)



Through & Blind Holes



THREAD		Pitch TPI	D1	D2	L1	L2	No. of Flutes	SOLID	
UNC	UNF							ORDER CODE	PRICE
INTERNAL 2xD Max Depth									
-	No.1 UNF	72	1.45	3	3.70	39	3	CTM-UN3T01T	▼ £78.31
No.1 UNC	No.2 UNF	64	1.40	3	3.80	39	3	CTM-UN3T03T	▼ £78.31
No.2 UNC	No.3 UNF	56	1.65	6	4.40	54	3	CTM-UN3T05T	▲ £78.31
No.3 UNC	No.4 UNF	48	1.90	6	5.20	54	3	CTM-UN3T07T	▲ £78.31
No.4, No.5 UNC	No.6 UNF	40	2.10	6	6.30	54	3	CTM-UN3T09T	▲ £78.31
No.5 UNC	No.6 UNF	40	2.45	6	7.00	54	3	CTM-UN3T11T	▲ £78.31
-	No.8 UNF	36	3.30	6	9.00	54	3	CTM-UN3T13T	▲ £78.31
No.6, No.8 UNC	No.10 UNF	32	2.55	6	7.10	54	3	CTM-UN3T15T	▲ £78.31
No.8 UNC	No.10 UNF	32	3.20	6	9.50	54	3	CTM-UN3T17T	▲ £78.31
-	No.12, 1/4 UNF	28	4.20	6	11.00	54	3	CTM-UN3T21T	▲ £78.31
No.10 UNC	5/16 UNF	24	3.50	6	10.60	54	3	CTM-UN3T25T	▲ £78.31
1/4" UNC	7/16" UNF	20	4.75	6	14.00	54	3	CTM-UN3T29T	▲ £78.31
-	7/16" UNF	20	8.00	8	25.00	64	3	CTM-UN3T31T	▲ £88.70
5/16" UNC	-	18	6.00	6	17.00	54	3	CTM-UN3T33T	▲ £78.31
3/8" UNC	-	16	6.70	8	22.00	64	3	CTM-UN3T37T	▲ £88.70
7/16" UNC	-	14	7.70	8	25.00	64	3	CTM-UN3T39T	▲ £88.70
INTERNAL 3xD Max Depth									
-	No.0 UNF	80	1.15	3	4.00	39	3	CTM-UN3T49T	▲ £78.31
-	No.1 UNF	72	1.45	3	6.00	39	3	CTM-UN3T51T	▲ £78.31
No.2 UNC	No.3 UNF	56	1.65	6	6.60	54	3	CTM-UN3T53T	▲ £78.31
No.4, No.5 UNC	No.6 UNF	40	2.10	6	8.00	54	3	CTM-UN3T55T	▲ £78.31
No.6, No.8 UNC	No.10 UNF	40	2.45	6	9.60	54	3	CTM-UN3T57T	▲ £78.31
No.6, No.8 UNC	No.10 UNF	32	2.55	6	10.50	54	3	CTM-UN3T59T	▲ £78.31
No.8 UNC	No.10 UNF	32	3.20	6	12.50	54	3	CTM-UN3T61T	▲ £78.31
-	No.10 UNF	32	3.70	6	15.00	54	3	CTM-UN3T63T	▲ £78.31
-	1/4" UNF	28	5.00	6	19.00	54	3	CTM-UN3T65T	▲ £78.31
-	5/16" UNF	24	6.60	8	24.00	64	3	CTM-UN3T67T	▲ £88.70
1/4" UNC	7/16" UNF	20	4.75	6	19.00	54	3	CTM-UN3T69T	▲ £78.31
5/16" UNC	-	18	6.00	6	23.00	54	3	CTM-UN3T71T	▲ £78.31

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

THREAD & GROOVE MILLING

TOOL HOLDING

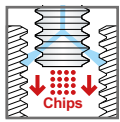


UN UNIFIED NATIONAL ANSI B1.1:74 VARIABLE HELIX RADIAL COOLANT

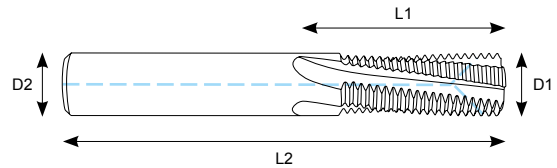


For High Performance Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45

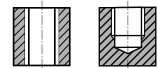
SECTION INDEX



- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand internal threads
- ▶ Variable helix design reduces vibration
- ▶ Radial coolant holes for improved chip evacuation of through holes



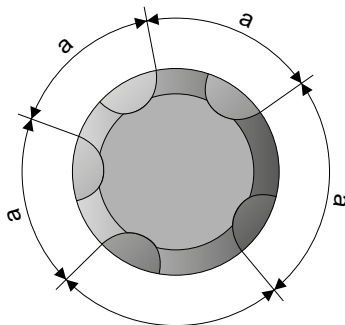
Through & Blind Holes



THREAD		Pitch TPI	D1	D2	L1	L2	No. of Flutes	RADIAL COOLANT	
UNC	UNF							ORDER CODE	PRICE
INTERNAL 2xD Max Depth									
9/16" UNC	9/16" UNF	18	10.00	10	25	80	4	CTM-UN21VHR	▲
3/8" UNC	3/4" UNF	16	7.50	8	20	65	3	CTM-UN05VHR	▲
7/16" UNC	7/8" UNF	14	8.00	8	20	65	3	CTM-UN11VHR	▲
1/2" UNC	-	13	10.00	10	25	80	4	CTM-UN19VHR	▲
9/16" UNC	1"-1 1/2"	12	10.00	10	25	80	4	CTM-UN17VHR	▲
5/8" UNC	-	11	12.00	12	30	82	4	CTM-UN27VHR	▲
3/4" UNC	-	10	15.50	16	40	100	5	CTM-UN31VHR	▲
7/8" UNC	-	9	18.00	18	40	110	5	CTM-UN35VHR	▲
1" UNC	-	8	20.00	20	40	110	5	CTM-UN39VHR	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

VARIABLE HELIX THREAD MILL ADVANTAGES



UNEQUAL SPACING Significant reduction in vibration. Very smooth cutting action. Reduction in the cutting forces avoids tool deflection.

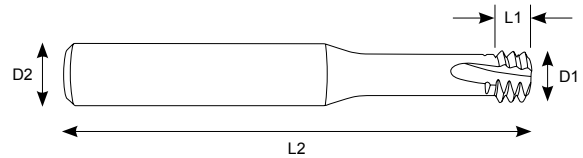
RADIAL COOLANT HOLES improve chip evacuation & increase tool life, especially in stainless steel & exotic materials.

UNJ UNIFIED NATIONAL MIL-S-8879C 3 TOOTH MICRO MILL

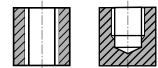


For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand internal threads
- ▶ Miniature style (3 tooth)



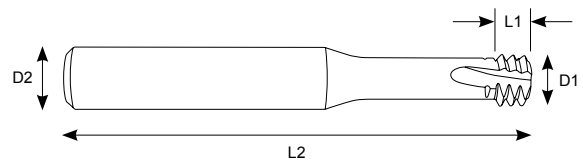
Through & Blind Holes



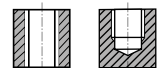
THREAD		Pitch TPI	D1	D2	L1	L2	No. of Flutes	SOLID	
UNJC	UNJF							ORDER CODE	PRICE
INTERNAL 2xD Max Depth									
No.6 UNJC	No.10 UNJF	32	2.60	6.00	7.00	54	3	CTM-UNJ3T05T	▲
-	No.12, 1/4 UNJF	28	4.00	6.00	11.00	54	3	CTM-UNJ3T11T	▲
No.10, No.12 UNJC	5/16-3/8 UNJF	24	3.00	6.00	9.00	54	3	CTM-UNJ3T09T	▲
1/4 UNJC	7/16"-1/2" UNJF	20	5.00	6.00	14.50	54	3	CTM-UNJ3T13T	▲
5/16" UNJC	9/16" UNJF	18	6.40	8.00	17.00	64	3	CTM-UNJ3T15T	▲
3/8" UNJC	3/4" UNJF	16	7.70	8.00	25.00	64	3	CTM-UNJ3T19T	▲
7/16" UNJC	7/8" UNJF	14	9.20	10.00	27.50	73	4	CTM-UNJ3T21T	▲
1/2" UNJC	-	13	9.90	10.00	27.50	73	4	CTM-UNJ3T25T	▲

MJ METRIC DIN ISO 5855 3 TOOTH MICRO MILL

- ▶ TNF coated carbide thread mills for general thread milling of steels, stainless steel, HRSA'S, aluminium & cast iron up to HRc45
- ▶ Suitable for right and left hand threads
- ▶ Suitable for internal threads
- ▶ Miniature style (3 tooth)



Through & Blind Holes



THREAD	Pitch mm	D1	D2	L1	L2	No. of Flutes	SOLID	
MJ							ORDER CODE	PRICE
INTERNAL 2xD Max Depth								
MJ 3	0.50	2.35	6	6.50	54	3	CTM-MJ3T01T	▲
MJ 4	0.70	3.10	6	9.00	54	3	CTM-MJ3T05T	▲
MJ 5	0.80	3.80	6	12.50	54	3	CTM-MJ3T07T	▲
MJ 6	1.00	4.65	6	14.00	54	3	CTM-MJ3T09T	▲
MJ 8	1.25	5.95	6	18.00	54	3	CTM-MJ3T11T	▲
MJ 10	1.50	7.80	8	23.00	64	3	CTM-MJ3T13T	▲
MJ 12	1.75	9.00	10	26.00	73	3	CTM-MJ3T15T	▲
MJ 14	2.00	10.40	12	35.00	80	4	CTM-MJ3T17T	▲
MJ 16	2.00	11.80	12	35.00	80	4	CTM-MJ3T19T	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)



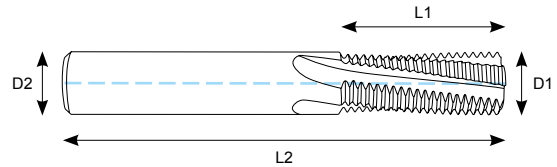
BSP (G) BRITISH STANDARD GAS B.S.2779:1956 HELICAL FLUTES



For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRC45

SECTION INDEX

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand threads internal & external threads
- ▶ Helical flute
- ▶ Optional through coolant for improved chip evacuation in blind holes



Through & Blind Holes

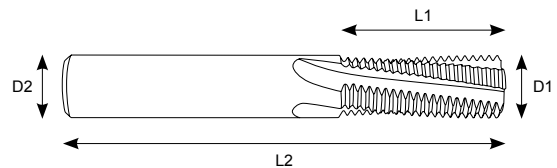


THREAD BSP(G)	Pitch TPI	D1	D2	L1	L2	No. of Flutes	STANDARD		THROUGH COOLANT		
							ORDER CODE	PRICE	ORDER CODE	PRICE	
INTERNAL/EXTERNAL 2xD Max Depth											
1/8" BSP	28	8.00	8	20	65	3	CTM-BSPHF01T	▲	£97.87	CTM-BSPHF01TCF	▲
1/4" BSP	19	10.00	10	25	80	4	CTM-BSPHF03T	▲	£123.07	CTM-BSPHF03TCF	▲
3/8" BSP	19	14.00	14	14	35	4	CTM-BSPHF05T	▲	£181.76	CTM-BSPHF05TCF	▲
1/2" BSP	14	16.00	16	16	40	5	CTM-BSPHF07T	▲	£209.71	CTM-BSPHF07TCF	▲
5/8" BSP	14	20.00	20	20	40	5	CTM-BSPHF09T	▲	£271.26	CTM-BSPHF09TCF	▲
1 > " BSP	11	20.00	20	20	40	5	CTM-BSPHF11T	▲	£271.26	CTM-BSPHF11TCF	▲

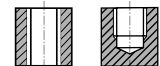
BSW BRITISH STANDARD WHITWORTH B.S.84 1956, DIN 259 HELICAL FLUTES

For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRC45

- ▶ TNF coated carbide thread mills
- ▶ Suitable for right and left hand threads internal & external threads
- ▶ Helical flute



Through & Blind Holes



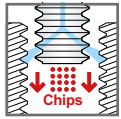
THREAD		Pitch TPI	D1	D2	L1	L2	No. of Flutes	STANDARD	
BSW	BSF							ORDER CODE	PRICE
INTERNAL/EXTERNAL 2xD Max Depth									
-	1/4" BSF	26	5.0	6	13.2	57	3	CTM-BSWHF01T	▲
-	5/16" BSF	26	6.35	8	16.2	61	3	CTM-BSWHF03T	▲
1/4" BSW	3/8" BSF	20	4.45	6	13.3	57	3	CTM-BSWHF05T	▲
5/16" BSW	7/16" BSF	18	5.85	6	16.2	57	3	CTM-BSWHF09T	▲
3/8" BSW	1/2", 9/16" BSF	16	7.20	8	61	19.8	3	CTM-BSWHF13T	▲
7/16" BSW	5/8", 11/16" BSF	14	8.5	10	73	22.7	3	CTM-BSWHF19T	▲
1/2" BSW	3/4" BSF	12	9.65	10	73	26.5	3	CTM-BSWHF25T	▲
9/16" BSW	3/4" BSF	12	11.25	12	80	28.6	4	CTM-BSWHF27T	▲
5/8, 11/16" BSW	7/8" BSF	11	12.6	14	92	33.5	4	CTM-BSWHF31T	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

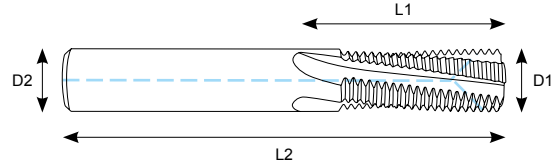
BSP (G) BRITISH STANDARD GAS B.S.2779:1956 VARIABLE HELIX



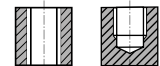
For High Performance Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45



- ▶ TNF coated carbide thread mills
- ▶ Variable helix design reduces vibration
- ▶ Suitable for right and left hand threads internal & external threads
- ▶ Radial coolant holes for improved chip evacuation of through holes



Through & Blind Holes

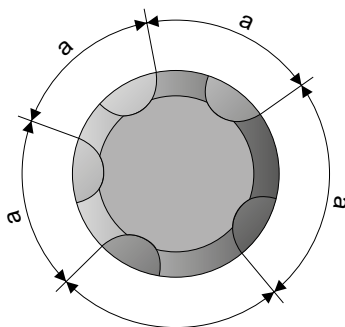


MG SC 3-5 R HELIX HRc <45 55° TNF COATED P942

THREAD BSP(G)	Pitch TPI	D1	D2	L1	L2	No. of Flutes	RADIAL COOLANT	
							ORDER CODE	PRICE
INTERNAL/EXTERNAL 2xD Max Depth								
1/8" BSP	28	8.00	8	20	66	3	CTM-BSP01VHR	▲
1/4" BSP	19	10.00	10	25	80	4	CTM-BSP03VHR	▲
3/8" BSP	19	14.00	14	14	35	4	CTM-BSP05VHR	▲
1/2" BSP	14	16.00	16	16	40	5	CTM-BSP07VHR	▲
5/8" BSP	14	20.00	20	20	40	5	CTM-BSP09VHR	▲
1 >" BSP	11	20.00	20	20	40	5	CTM-BSP11VHR	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

VARIABLE HELIX THREAD MILL ADVANTAGES



UNEQUAL SPACING Significant reduction in vibration. Very smooth cutting action. Reduction in the cutting forces avoids tool deflection.

RADIAL COOLANT HOLES improve chip evacuation & increase tool life, especially in stainless steel & exotic materials.



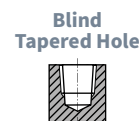
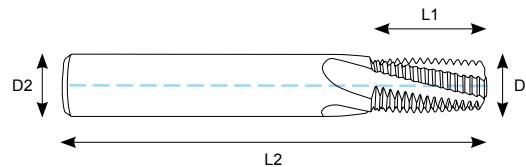
BSPT BRITISH STANDARD PIPE TAPER B.S.21:1985 HELICAL FLUTES



For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRC45

SECTION INDEX

- ▶ TNF coated carbide thread mills
- ▶ Helical flute for tapered threads
- ▶ Optional through coolant for improved chip evacuation in blind holes

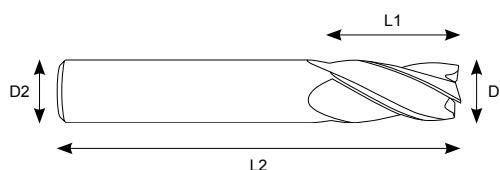


THREAD BSPT	Pitch TPI	D1	D2	L1	L2	No. of Flutes	SOLID		THROUGH COOLANT	
							ORDER CODE	PRICE	ORDER CODE	PRICE
INTERNAL/EXTERNAL TAPER THREAD										
1/16" BSPT	28	5.80	8	16.3	57	3	CTM-BSPHFTC20T	▲ £109.42	CTM-BSPHFTC20TCF	▲
1/8" BSPT	28	7.70	8	20.0	63	3	CTM-BSPHFTC22T	▲ £127.23	CTM-BSPHFTC22TCF	▲
1/4" BSPT	19	9.90	12	26.7	73	4	CTM-BSPHFTC24T	▲ £163.58	CTM-BSPHFTC24TCF	▲
3/8" BSPT	19	13.40	12	33.4	92	4	CTM-BSPHFTC26T	▲ £272.63	CTM-BSPHFTC26TCF	▲
1/2" BSPT	14	15.70	16	43.5	92	4	CTM-BSPHFTC28T	▲ £272.63	CTM-BSPHFTC28TCF	▲
1" BSPT	11	19.9	20	41.6	104	5	CTM-BSPHFTC30T	▲ £352.64	CTM-BSPHFTC30TCF	▲

1:16 TAPER END MILLS FOR BSPT, NPT, NPTF THREADS

For Pre-Machining 1:16 Taper for Conical Threads

- ▶ Improve tool life of thread mill by pre-machining the taper



D1	D2	Angle	L1	L2	No. of Flutes	SOLID	
						ORDER CODE	PRICE
5.30	6.00	30°	11.26	55.00	3	TEM-CON01	▲
7.30	8.00	30°	11.26	55.00	3	TEM-CON03	▲
8.80	10.00	30°	19.30	75.00	4	TEM-CON05	▲
10.80	12.00	30°	19.30	75.00	4	TEM-CON07	▲
12.50	14.00	30°	24.15	80.00	4	TEM-CON09	▲
18.00	20.00	30°	32.20	90.00	4	TEM-CON11	▲

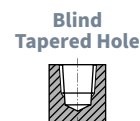
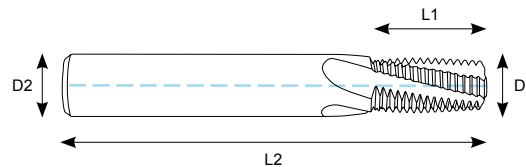
▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

NPT NATIONAL PIPE TAPER B2.1:1965 HELICAL FLUTES



For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45

- ▶ TNF coated carbide thread mills
- ▶ Helical flute for tapered threads
- ▶ Optional through coolant for improved chip evacuation in blind holes

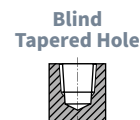
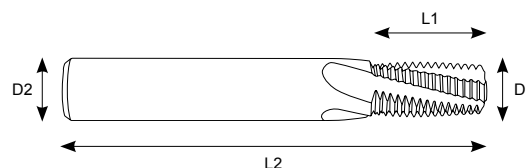


THREAD NPT	Pitch TPI	D1	D2	L1	L2	No. of Flutes	SOLID		THROUGH COOLANT		
							ORDER CODE	PRICE	ORDER CODE	PRICE	
NPT INTERNAL/EXTERNAL SHORT											
1/16" NPT	27	5.90	8	9.88	55	3	CTM-NPTHF01T	▲	£127.23	CTM-NPTHF01TCF	▲
1/8" NPT	27	7.65	8	9.88	55	3	CTM-NPTHF03T	▲	£127.23	CTM-NPTHF03TCF	▲
1/4" NPT	18	10.15	12	14.82	75	4	CTM-NPTHF05T	▲	£199.93	CTM-NPTHF05TCF	▲
3/8" NPT	18	11.15	12	14.82	75	4	CTM-NPTHF07T	▲	£199.93	CTM-NPTHF07TCF	▲
1/2" NPT	14	14.25	16	19.05	80	4	CTM-NPTHF09T	▲	£272.63	CTM-NPTHF09TCF	▲
1" NPT	11-1/2	19.60	20	23.19	90	5	CTM-NPTHF11T	▲	£352.64	CTM-NPTHF11TCF	▲

NPTF NATIONAL PIPE TAPER FUEL ANSI 1.20.3-1 HELICAL FLUTES

For General Thread Milling of Steels, Stainless Steel, HRSA's, Aluminium & Cast Iron up to HRc45

- ▶ TNF coated carbide thread mills
- ▶ Helical flute for tapered threads



THREAD NPTF	Pitch TPI	D1	D2	L1	L2	No. of Flutes	SOLID	
							ORDER CODE	PRICE
NPTF INTERNAL/EXTERNAL								
1/16" NPTF	27	5.90	8	9.88	55	3	CTM-NPTFHF01T	▲
1/8" NPTF	27	7.65	8	9.88	55	3	CTM-NPTFHF03T	▲
1/4" NPTF	18	10.15	12	14.82	75	4	CTM-NPTFHF05T	▲
3/8" NPTF	18	11.15	12	14.82	75	4	CTM-NPTFHF07T	▲
1/2" NPTF	14	14.25	16	19.05	80	4	CTM-NPTFHF09T	▲
1" NPTF	11-1/2	19.60	20	23.19	90	5	CTM-NPTFHF11T	▲

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)



CARBIDE THREAD MILL
THREAD MILLING

CUTTING DATA

SECTION INDEX

Material	Workpiece			Vc [m/min]		Feed fz [mm/tooth]		
	Group	Detail	Hardness Brinell HB	Helical Flute Deep Threading	Miniature	Helical	Deep Threading	Miniature
P STEEL	Unalloyed Steel	Low Carbon (C=0.1-0.25%)	125	80-250	60-120	0.03-0.15	0.03-0.23	0.03-0.12
		Medium Carbon (C=0.25-0.55%)	150	80-230	60-120	0.03-0.1	0.03-0.15	0.03-0.12
		High Carbon (C=0.55-0.85%)	170	80-200	60-90	0.03-0.08	0.03-0.12	0.03-0.12
	Low Alloy Steel (Alloying Elements <5%)	Non Hardened	180	60-180	60-90	0.03-0.1	0.03-0.15	0.03-0.1
		Hardened	275	60-170	50-80	0.03-0.07	0.03-0.11	0.03-0.07
		Hardened	350	60-160	50-80	0.01-0.03	0.01-0.05	0.03
	High Alloy Steel (Alloying Elements >5%)	Annealed	200	40-100	50-80	0.03-0.05	0.03-0.08	0.03-0.05
		Hardened	325	30-80	50-80	0.01-0.03	0.01-0.05	0.03
	Cast Steel	Low Alloy (Alloying Elements <5%)	200	80-250	70-90	0.03-0.1	0.03-0.15	0.03-0.1
		High Alloy (Alloying Elements >5%)	225	60-170	60-80	0.01-0.03	0.01-0.05	0.03
M STAINLESS STEEL	Stainless Steel Ferritic	Non Hardened	200	60-150	60-90	0.04-0.1	0.04-0.15	0.03-0.1
		Hardened	330	60-120	50-80	0.01-0.05	0.01-0.08	0.03
	Stainless Steel Austenitic	Austenitic	180	60-140	60-90	0.04-0.1	0.04-0.15	0.03-0.1
		Super Austenitic	200	60-130	50-80	0.04-0.1	0.04-0.15	0.03-0.1
	Stainless Steel Cast Ferritic	Non Hardened	200	60-160	60-90	0.04-0.1	0.04-0.15	0.03-0.1
		Hardened	330	60-110	50-80	0.03-0.05	0.03-0.08	0.03
	Stainless Steel Cast Austenitic	Austenitic	200	60-150	60-90	0.04-0.1	0.04-0.15	0.03-0.1
		Hardened	330	60-100	50-80	0.03-0.05	0.03-0.08	0.03
K CAST IRON	Malleable	Ferritic (Short Chips)	130	60-70	50-80	0.01-0.03	0.01-0.05	0.03
	Cast Iron	Pearlitic (Long Chips)	230	60-150	60-90	0.03-0.05	0.03-0.08	0.05
	Grey Cast Iron	Low Tensile Strength	180	70-160	70-100	0.025-0.1	0.05-0.15	0.04-0.1
		High Tensile Strength	260	40-120	60-90	0.03-0.05	0.03-0.08	0.05
	Nodular Sg Iron	Ferritic	160	40-110	70-100	0.05-0.1	0.05-0.15	0.04-0.1
		Pearlitic	260	40-100	60-90	0.03-0.05	0.03-0.08	0.05
N NON-FERROUS METALS	Aluminium Alloys Wrought	Non Aging	60	200-300	60-250	0.1-0.25	0.10-0.38	0.05-0.15
		Aged	100	150-250	60-150	0.1-0.2	0.10-0.30	0.04-0.12
	Aluminium Alloys	Cast	75	100-200	60-250	0.1-0.2	0.10-0.30	0.04-0.12
		Cast & Aged	90	120-220	60-150	0.1-0.15	0.10-0.23	0.03-0.1
	Aluminium Alloys	Cast Si 13-22%	130	200-300	250	0.1-0.2	0.10-0.30	0.05-0.1
		Copper & Copper Alloys	Brass	90	200-300	60-250	0.1-0.25	0.10-0.38
Bronze & Non Leaded Copper	100		150-250	60-150	0.1-0.2	0.10-0.30	0.05-0.1	
S HEAT RESISTANT MATERIAL	High Temperature Alloys	Annealed (Iron Based)	200	30-60	60	0.04-0.1	0.04-0.15	0.03-0.1
		Aged (Iron Based)	280	20-50	50	0.01-0.03	0.01-0.05	0.03
		Annealed (Nickel Or Cobalt Based)	250	15-35	20-40	0.01-0.03	0.01-0.05	0.03
		Aged (Nickel Or Cobalt Based)	350	15-30	15-30	0.01-0.03	0.01-0.05	0.03
	Titanium Alloys	Pure 99.5 Ti	400Rm	40-80	30-50	0.03-0.05	0.03-0.08	0.03-0.06
		A+B Alloys	1050Rm	20-50	25-35	0.03-0.05	0.03-0.08	0.03-0.07
H HARDENED	Extra Hard Steel	Hardened & Tempered	45-50HRc	15-45	30-45	0.005-0.01	0.005-0.02	0.01
		Hardened & Tempered	51-55HRc	15-40	15-30	0.005-0.01	0.005-0.02	0.01
		Hardened & Tempered	55-60HRc	40-60	-	0.005-0.025	-	-
		Hardened & Tempered	60-63HRc	30-40	-	0.005-0.015	-	-
		Hardened & Tempered	63-66HRc	30-40	-	0.005-0.015	-	-



CARBIDE THREAD MILL

CUTTING DATA

DRILLS, CHAMFER & THREAD MILLING

Material	Group	Workpiece		Cutting Speed Vc [m/min]	Drilling Feed [mm/rev]		Feed fz [mm/tooth]			
		Detail	Hardness		Ø0-8	Ø8+	Ø0-8	Ø8+		
K CAST IRON	Cast Iron	With Laminar Graphite	100-250 N/mm ²	80~160	0.10~0.25	0.20~0.40	0.04~0.07	0.05~0.12		
			250-450 N/mm ²	80~160	0.10~0.25	0.20~0.40	0.04~0.07	0.05~0.12		
		With Nodular Graphite	350-500 N/mm ²	80~160	0.10~0.25	0.15~0.25	0.04~0.07	0.05~0.12		
			500-900 N/mm ²	80~160	0.10~0.25	0.15~0.25	0.04~0.07	0.05~0.12		
		With Vermicular Graphite	300-400 N/mm ²	80~160	0.10~0.25	0.20~0.40	0.04~0.07	0.05~0.12		
			400-500 N/mm ²	80~160	0.10~0.25	0.20~0.40	0.04~0.07	0.05~0.12		
		Malleable	250-500 N/mm ²	80~160	-	-	0.04~0.07	0.05~0.12		
			500-800 N/mm ²	80~160	-	-	0.04~0.07	0.05~0.12		
		N NON-FERROUS METALS	Aluminium	Aluminium Alloys	≤ 200 N/mm ²	150~250	0.08~0.15	0.15~0.25	0.04~0.08	0.07~0.15
					≤ 350 N/mm ²	150~250	0.08~0.15	0.15~0.25	0.04~0.08	0.07~0.15
≤ 550 N/mm ²	150~250				0.08~0.15	0.15~0.25	0.04~0.08	0.07~0.15		
Si ≤ 7%	150~400				0.15~0.25	0.20~0.40	0.04~0.08	0.07~0.15		
7% < Si ≤ 12%	150~400				0.15~0.25	0.20~0.40	0.04~0.08	0.07~0.15		
12% < Si ≤ 17%	100~200				0.15~0.25	0.20~0.40	0.04~0.08	0.07~0.15		
Copper Alloys	Zinc (Brass, Long Chip)		≤ 550 N/mm ²	150~400	0.10~0.20	0.15~0.30	0.05~0.08	0.07~0.15		
	Zinc (Brass, Short Chip)		≤ 550 N/mm ²	150~400	0.10~0.20	0.15~0.30	0.05~0.08	0.07~0.15		
	Tin (Bronze, Short Chip)		≤ 400 N/mm ²	100~250	0.10~0.25	0.20~0.40	0.04~0.07	0.05~0.12		
Magnesium Alloys	Malleable Magnesium Alloys		≤ 500 N/mm ²	150~400	0.10~0.20	0.15~0.30	0.04~0.08	0.07~0.15		
	Magnesium Casting Alloys		≤ 500 N/mm ²	150~400	0.15~0.30	0.20~0.40	0.04~0.08	0.07~0.15		
Plastic Materials	Thermosetting Plastic (Short Chip)		-	100~400	0.15~0.30	0.20~0.40	0.05~0.10	0.08~0.20		

RECOMMENDATION:

At tool entry, set the Feed fz[mm/tooth] to 70% lower than the threading Feed.

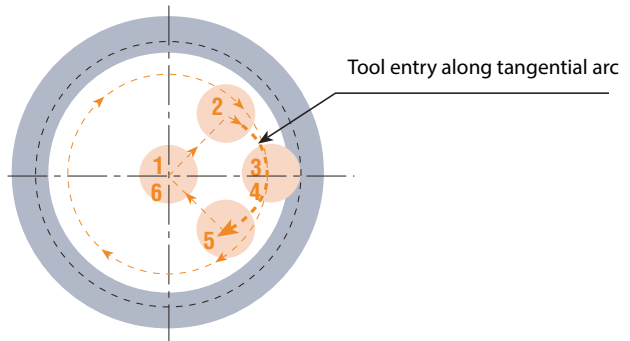
Example:

Threading Feed: 0.3[mm/tooth]

Tool entry Feed: 0.09[mm/tooth]

The feed rates listed are for straight line feeds and allowance should be made when interpolating as the outside edge of the cutter will be travelling faster than the centre.

The cutting speed values (Vc in m/min) are given only as an indication and should be adapted to the application conditions (material, cooling by lubricating oil, machine etc.).



FOR INFORMATION OR ADVICE ON ANY OF OUR PRODUCTS
CALL TECHNICAL DIRECT ON 01924 869 615



INDEXABLE THREAD MILLS



P	H	M	S	K	N
Steel	Hardened Steel	Stainless Steel	HRSA's	Cast Iron	Non Ferrous



Indexable Carbide Thread Mills for the milling of threads from 1.25 to 3.5mm pitch (8 to 16TPI). Cutwel Pro indexable thread mill inserts are suitable for use in certain other manufacturers tool holders. One tool holder can be used for different sized thread forms or thread types.










THREAD FORMS

M METRIC COARSE	P947
MF METRIC FINE	P947
UNC UNIFIED NATIONAL COARSE	P947
UNF UNIFIED NATIONAL FINE	P947
UNEF UNIFIED NATIONAL EXTRA FINE	P947

BSW BRITISH STANDARD WHITWORTH	P948
BSP WHITWORTH PIPE THREAD	P948
BSF BRITISH STANDARD FINE	P948
BSPT WHITWORTH PIPE THREAD TAPERED	P948
NPT NATIONAL PIPE TAPER	P949
NPTF NATIONAL PIPE TAPER FUEL	P949



TOOL SELECTION

Description		Pitch/ TPI	Series	Page
INDEXABLE THREAD MILL HOLDER 1 TOOTH FOR INTERNAL AND EXTERNAL THREADS		-	SR001	946
INDEXABLE THREAD MILL HOLDER 2 TOOTH FOR INTERNAL AND EXTERNAL THREADS		-	SR002	946
INDEXABLE THREAD MILL HOLDER 5 TOOTH FOR INTERNAL AND EXTERNAL THREADS		-	SR006	946
METRIC INDEXABLE THREAD MILL INSERTS ISO FULL PROFILE INSERTS FOR METRIC & METRIC FINE THREADS		1.5-3.5	CTM-ISO	947
UNIFIED INDEXABLE THREAD MILL INSERTS UN FULL PROFILE INSERTS FOR UNC, UNF, UNEF THREADS		16-8	CTM-UN	947
WHITWORTH INDEXABLE THREAD MILL INSERTS ISO FULL PROFILE INSERTS FOR BSW, BSP & BSF THREADS		16-8	CTM-W	948
BSPT INDEXABLE THREAD MILL INSERTS BSPT BS21 - 55° INC. - 1/16 TAPER THREAD MILL INSERTS		28-11	CTM-BSPT	948
NPT INDEXABLE THREAD MILL INSERTS NPT ASME/ANSI B1.20.1 - 60° INC. - 1/16 TAPER THREAD MILL INSERTS		18-11.5	CTM-NPT	948
NPTF INDEXABLE THREAD MILL INSERTS NPT ASME/ANSI B1.20.3 - 60° INC. - 1/16 TAPER THREAD MILL INSERTS		18-11.5	CTM-NPTF	949

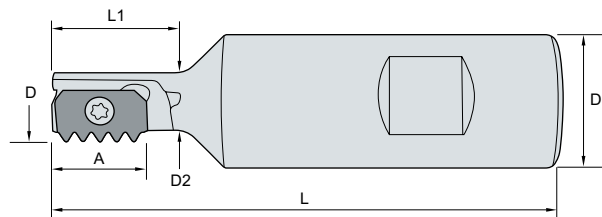
RECOMMENDED CUTTING CONDITIONS

Group	WORKPIECE		Cutting Speed (m/min)	Feed Rate (mm)
		Material		
P Steel		Low and Medium Carbon Steels	115-280	0.05-0.15
		High Carbon Steels	130-200	
		Alloy Steels, Treated Steels	105-180	
M Stainless Steel		Stainless Steels	130-190	
		Cast Steels	150-190	
S HRSA's		Nickel Alloys and Titanium Alloys	25-90	
K Cast Iron		Cast Iron	80-70	
N Non Ferrous		Non-Ferrous and Aluminium	180-340	
		Synthetics, Duroplastics and Thermoplastics	115-460	

INDEXABLE THREAD MILL HOLDER 1 TOOTH

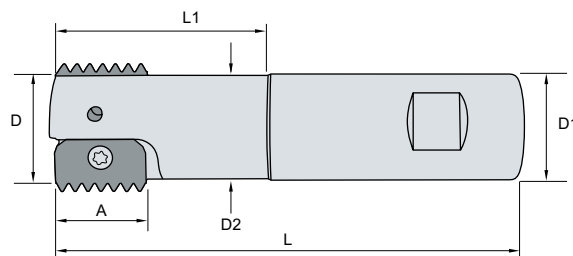
Holders Take Replaceable Inserts for Different Thread Forms for External and Internal Threads

SECTION INDEX



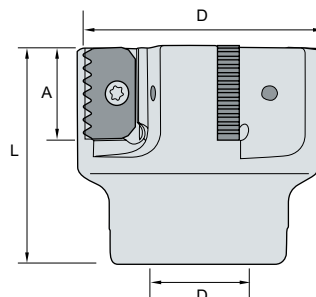
A	D	D1	D2	L	L1	ORDER CODE	PRICE	INSERTS	SPARES	
									Screw	Torx Key
14	12	20	8.9	75	20	SR0012F14 ▲		CTM14	S14	K14
14	14.5	20	11.2	85	25	SR0014H14 ▲				
14	17	20	13.4	85	30	SR0017H14 ▲				
21	18	20	14.4	85	30	SR0018H21 ▲		CTM21	S21	K21
21	21	20	16.5	94	40	SR0021H21 ▲				
21	25	20	-	125	-	SR0025K21 ▲				

INDEXABLE THREAD MILL HOLDER 2 TOOTH



A	D	D1	D2	L	L1	ORDER CODE	PRICE	INSERTS	SPARES	
									Screw	Torx Key
14	20	20	16	93	41	SR0020H14-2 ▲		CTM14	S14	K14
21	30	25	24	108	52	SR0030J21-2 ▲				

INDEXABLE THREAD MILL HOLDER 5 TOOTH



A	D	D1	L	Teeth	ORDER CODE	PRICE	INSERTS	SPARES	
								Screw	Torx Key
21	63	22	50	5	SR0063C21-5 ▲		CTM21	S21	K21

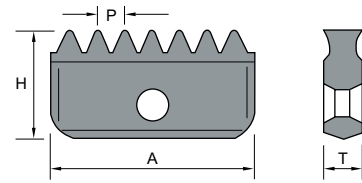
▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

M, MF METRIC INDEXABLE THREAD MILL INSERTS



ISO FULL PROFILE INSERTS FOR METRIC & METRIC FINE THREADS

- ▶ CW500 coated carbide inserts for thread milling of steels, stainless steel, HRSA'S, aluminium & cast iron up to HRC45
- ▶ Inserts have 2 cutting edges (double sided)

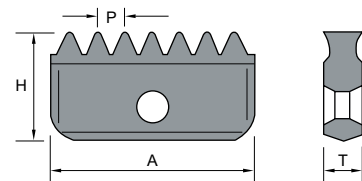


Pitch	A	H	T	EXTERNAL		INTERNAL		PRICE PER INSERT	
				Teeth	ORDER CODE	Teeth	ORDER CODE	1-4pcs	5+ pcs
1.5	14	8.02	3.10	9	CTM14-E-1.5ISO ▲	9	CTM14-N-1.5ISO ▲		
1.75				8	CTM14-E-1.75ISO ▲	8	CTM14-N-1.75ISO ▲		
2.0				7	CTM14-E-2.0ISO ▲	7	CTM14-N-2.0ISO ▲		
2.5				5	CTM14-E-2.5ISO ▲	5	CTM14-N-2.5ISO ▲		
1.5	21	12.74	4.7	14	CTM21-E-1.5ISO ▲	14	CTM21-N-1.5ISO ▲		
1.75				12	CTM21-E-1.75ISO ▲	12	CTM21-N-1.75ISO ▲		
2.0				10	CTM21-E-2.0ISO ▲	10	CTM21-N-2.0ISO ▲		
2.5				8	CTM21-E-2.5ISO ▲	8	CTM21-N-2.5ISO ▲		
3.0				7	CTM21-E-3.0ISO ▲	7	CTM21-N-3.0ISO ▲		
3.5				6	CTM21-E-3.5ISO ▲	6	CTM21-N-3.5ISO ▲		

UNC, UNF, UNEF UNIFIED INDEXABLE THREAD MILL INSERTS

UN FULL PROFILE INSERTS FOR UNC, UNF, UNEF THREADS

- ▶ CW500 coated carbide inserts for thread milling of steels, stainless steel, HRSA'S, aluminium & cast iron up to HRC45
- ▶ Inserts have 2 cutting edges (double sided)



TPI	A	H	T	EXTERNAL		INTERNAL		PRICE PER INSERT	
				Teeth	ORDER CODE	Teeth	ORDER CODE	1-4pcs	5+ pcs
16	14	8.02	3.1	9	CTM14-E-16UN ▲	8	CTM14-N-16UN ▲		
14				7	CTM14-E-14UN ▲	7	CTM14-N-14UN ▲		
12				6	CTM14-E-12UN ▲	6	CTM14-N-12UN ▲		
11				6	CTM14-E-11UN ▲	6	CTM14-N-11UN ▲		
10				5	CTM14-E-10UN ▲	5	CTM14-N-10UN ▲		
16				21	12.74	4.7	13	CTM21-E-16UN ▲	13
14	11	CTM21-E-14UN ▲	11				CTM21-N-14UN ▲		
12	10	CTM21-E-12UN ▲	10				CTM21-N-12UN ▲		
11	9	CTM21-E-11UN ▲	9				CTM21-N-11UN ▲		
10	8	CTM21-E-10UN ▲	8				CTM21-N-10UN ▲		
9	7	CTM21-E-9UN ▲	7				CTM21-N-9UN ▲		
8	6	CTM21-E-8UN ▲	6				CTM21-N-8UN ▲		

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)



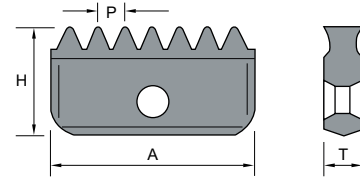
BSW, BSP, BSF WHITWORTH INDEXABLE THREAD MILL INSERTS



ISO FULL PROFILE INSERTS FOR BSW, BSP & BSF THREADS

SECTION INDEX

- ▶ CW500 coated carbide inserts for thread milling of steels, stainless steel, HRSA'S, aluminium & cast iron up to HRC45
- ▶ Inserts have 2 cutting edges (double sided)
- ▶ Same inserts can be used for internal and external threads

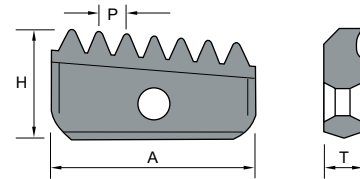


TPI	A	H	T	EXTERNAL/ INTERNAL		PRICE PER INSERT	
				Teeth	ORDER CODE	1-4pcs	5+ pcs
16	14	8.02	3.1	8	CTM14-X-16W ▲		
14				7	CTM14-X-14W ▲		
12				6	CTM14-X-12W ▲		
11				6	CTM14-X-11W ▲		
10				5	CTM14-X-10W ▲		
16	21	12.74	4.7	13	CTM21-X-16W ▲		
14				11	CTM21-X-14W ▲		
12				10	CTM21-X-12W ▲		
11				9	CTM21-X-11W ▲		
10				8	CTM21-X-10W ▲		
9				7	CTM21-X-9W ▲		
8				6	CTM21-X-8W ▲		

BSPT INDEXABLE THREAD MILL INSERTS

BSPT BS21 - 55° INC. - 1/16 TAPER THREAD MILL INSERTS

- ▶ CW500 coated carbide inserts for thread milling of steels, stainless steel, HRSA'S, aluminium & cast iron up to HRC45
- ▶ BSPT inserts are single sided and can be used for internal and external threads



TPI	A	H	T	EXTERNAL/ INTERNAL		PRICE PER INSERT	
				Teeth	ORDER CODE	1-4pcs	5+ pcs
28	14	8.02	3.1	15	CTM14-XS-28BSPT ▲		
14				7	CTM14-XS-14BSPT ▲		
19				10	CTM14-XS-19BSPT ▲		
14	21	12.74	4.7	11	CTM21-XS-14BSPT ▲		
11				9	CTM21-XS-11BSPT ▲		

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

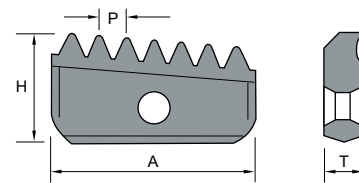


NPT INDEXABLE THREAD MILL INSERTS



NPT ASME/ANSI B1.20.1 - 60° INC. - 1/16 TAPER THREAD MILL INSERTS

- ▶ CW500 coated carbide inserts for thread milling of steels, stainless steel, HRSA'S, aluminium & cast iron up to HRc45
- ▶ NPT inserts are single sided and can be used for internal and external threads

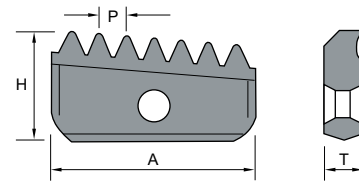


TPI	A	H	T	EXTERNAL/ INTERNAL		PRICE PER INSERT	
				Teeth	ORDER CODE	1-4pcs	5+ pcs
18	14	8.02	3.1	9	CTM14-XS-18NPT ▲		
14				7	CTM14-XS-14NPT ▲		
18	21	12.74	4.7	14	CTM21-XS-18NPT ▲		
14				11	CTM21-XS-14NPT ▲		
11.5				9	CTM21-XS-11.5NPT ▲		

NPTF INDEXABLE THREAD MILL INSERTS

NPT ASME/ANSI B1.20.3 - 60° INC. - 1/16 TAPER THREAD MILL INSERTS

- ▶ CW500 coated carbide inserts for thread milling of steels, stainless steel, HRSA'S, aluminium & cast iron up to HRc45
- ▶ NPTF inserts are single sided and can be used for internal and external threads



TPI	A	H	T	EXTERNAL/ INTERNAL		PRICE PER INSERT	
				Teeth	ORDER CODE	1-4pcs	5+ pcs
18	14	8.02	3.1	9	CTM14-XS-18NPTF ▲		
14				7	CTM14-XS-14NPTF ▲		
18	21	12.74	4.7	14	CTM21-XS-18NPTF ▲		
14				11	CTM21-XS-14NPTF ▲		
11.5				9	CTM21-XS-11.5NPTF ▲		

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

THREAD & GROOVE MILLING

TOOL HOLDING



MULTIFUNCTIONAL THREAD & GROOVE MILLING

P	H	M	S	K	N
Steel	Hardened Steel	Stainless Steel	HRSA's	Cast Iron	Non Ferrous

PERFORMANCE
★★★★★



Multifunctional Indexable Milling Systems for the Production of Grooves, Threads, Slots, Chamfers and External Radii in Bores from 10mm Diameter.













simmill PX | SX | UX | VX
SIMTEK Milling Tools Type PX | SX | UX | VX

The system uses high quality micrograin carbide inserts, precision ground to the highest tolerances. The special seat design provides the highest torque transfer, low vibration and ensures the highest precision and tool life. simmill® PX-SX-UX & VX are suitable for bores from 10mm diameter.

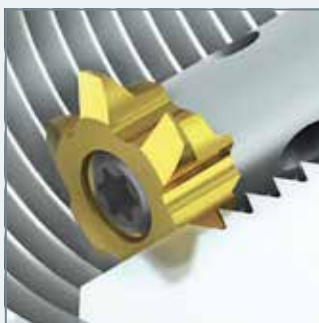


SIMTEK®

TOOL SELECTION

Description		Series	Page
CARBIDE SHANK HOLDER SHANK WITH FLAT OR PLAIN SHANK		PX SX UX VX	952
STEEL SHANK HOLDER SHANK WITH FLAT OR PLAIN SHANK		PX SX UX VX	954
ER COLLET CHUCK HOLDER FOR DIRECT CLAMPING INTO ER COLLET CHUCKS		PX SX UX VX	955
3 TOOTH INSERTS METRIC ISO FULL PROFILE THREAD FOR INTERNAL THREADS		PX SX UX VX	956
3 TOOTH INSERTS METRIC ISO PARTIAL PROFILE THREAD FOR INTERNAL THREADS		PX SX UX VX	957
3 TOOTH INSERTS WHITWORTH FULL PROFILE THREAD FOR INTERNAL THREADS		PX SX UX VX	958
3 TOOTH INSERTS UN FULL PROFILE THREAD FOR UNC, UNF & UNEF INTERNAL THREADS		UX	959
3 TOOTH INSERTS GENERAL GROOVE MILLING		PX SX UX	960
3 & 6 TOOTH INSERTS GENERAL GROOVE MILLING		VX	961
6 TOOTH INSERTS GENERAL GROOVE MILLING SMOOTH CUTTING		PX SX UX VX	962
3 TOOTH INSERTS CIRCLIP GROOVE MILLING INTERNAL		PX SX UX VX	963
3 TOOTH INSERTS FULL RADIUS GROOVE MILLING		PX SX UX VX	964
3 TOOTH INSERTS CHAMFER MILLING		PX SX UX VX	965

APPLICATIONS



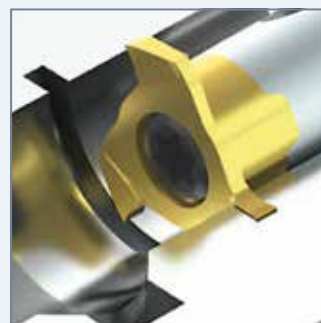
THREAD MILLING

P956



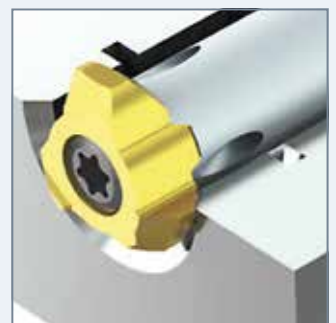
GROOVE MILLING

P960



CIRCLIP GROOVE MILLING

P964



CHAMFER MILLING

P965

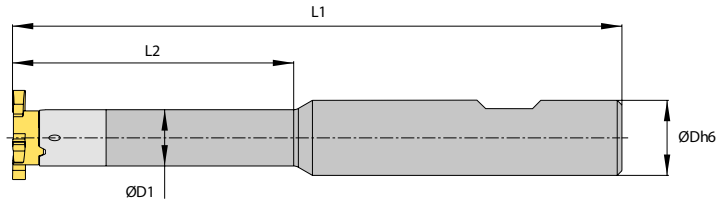
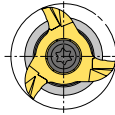
CARBIDE SHANK TOOL HOLDER WITH FLAT

Simtek® simmill® PX, SX, UX & VX



SECTION INDEX

- ▶ Anti-Vibration carbide weldon shank
- ▶ Through Coolant
- ▶ Use connect code to match inserts to holders
- ▶ For easy ordering use **Short Code**



ØD h6	ØD1	L1	L2	ORDER CODE		PRICE	INSERTS P956-965		SPARES	
				Description	Short Code		Connect Code	Series	Screw	Torx Key
12	6	80	21	P10.1206.21 B HM	AKJM ▲		PD06.0	PX	PM2.6 x 8	T8F
12	6	90	30	P10.1206.30 B HM	AC5B ▲					
12	6	100	42	P10.1206.42 B HM	AHUG ▲					
12	7.3	90	30	P10.1207.30 B HM	AHJ7 ▲		PD07.3			
16	7.3	100	25	P10.1607.25 B HM	APOF ▼					
12	8	95	29	S14.1208.29 B HM	AG22 ▲		SD08.0	SX	SM3.5x10	T10F
12	8	110	42	S14.1208.42 B HM	ACPK ▲					
12	8	120	56	S14.1208.56 B HM	AC9E ▲					
12	9.5	110	42	S14.1209.42 B HM	AAKT ▲		SD09.5			
16	9.5	110	33	S14.1609.33 B HM	AH8J ▼					
12	9	100	32	U18.1209.32 B HM	AHQG ▲		UD09.0	UX	UM4 x 12	T15F
12	9	100	45	U18.1209.45 B HM	AGXG ▼					
12	9	120	64	U18.1209.64 B HM	AC32 ▲					
16	9	93	25	U18.1609.25 B HM	AJ83 ▲					
16	9	100	32	U18.1609.32 B HM	AH75 ▲					
16	9	110	45	U18.1609.45 B HM	AA3N ▼					
16	9	130	64	U18.1609.64 B HM	ACGX ▲					
16	12	110	45	U18.1612.45 B HM	ADG9 ▲		UD12.0			
16	13	110	64	U18.1613.64 B HM	AMT0 ▲		UD13.0			
16	13	130	66	U18.1613.66 B HM	AJK6 ▼					
12	12	100	42	V22.1212.42 B HM	APJA ▲		VD12.0	VX	VM5 x 12	T20T
12	12	130	60	V22.1212.60 B HM	AJ81 ▼					
16	12	100	42	V22.1612.42 B HM	AHES ▲					
16	12	130	60	V22.1612.60 B HM	AD03 ▲					
16	12	160	85	V22.1612.85 B HM	APYY ▲					
16	14.3	100	42	V28.1614.42 B HM	ANNZ ▲		VD14.3	VX	VM5 x 12	T20T
16	14.3	130	60	V28.1614.60 B HM	AJ23 ▼					
16	14.3	160	85	V28.1614.85 B HM	AGBC ▲					
16	9	100	33	V33.1609.33 B HM	APSS ▲		VD09.0			
20	16	110	45	V22.2016.45 B HM	AG2G ▲		VD16.0			
20	16	130	65	V22.2016.65 B HM	AHNF ▼					
20	13.5	104	35	V28.2013.35 B HM	ACWW ▲					
20	14.3	160	85	V28.2014.85 B HM	AF3D ▼					

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

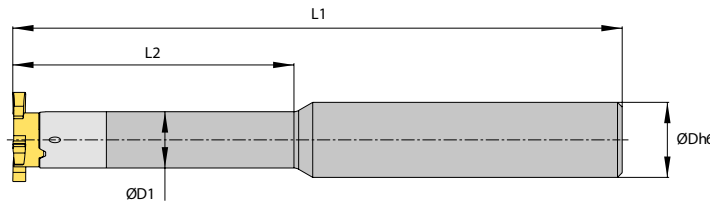


CARBIDE SHANK TOOL HOLDER PLAIN SHANK

Simtek® simmill® PX, SX, UX & VX



- ▶ Anti-Vibration carbide plain shank
- ▶ Through Coolant
- ▶ Use connect code to match inserts to holders
- ▶ For easy ordering use **Short Code**



ØD h6	ØD1	L1	L2	ORDER CODE		PRICE	INSERTS P956-965		SPARES	
				Description	Short Code		Connect Code	Series	Screw	Torx Key
12	6	80	21	P10.1206.21 A HM	AE35 ▲		PD06.0	PX	PM2.6 x 8	T8F
12	6	90	30	P10.1206.30 A HM	AG5A ▼					
12	6	100	42	P10.1206.42 A HM	AMEK ▲					
12	7.3	90	30	P10.1207.30 A HM	AHBF ▲		PD07.3			
16	7.3	100	25	P10.1607.25 A HM	ADVZ ▼					
12	8	95	29	S14.1208.29 A HM	AM5T ▲		SD08.0	SX	SM3.5x10	T10F
12	8	110	42	S14.1208.42 A HM	AAD5 ▼					
12	8	120	56	S14.1208.56 A HM	ADVQ ▲					
12	9.5	110	42	S14.1209.42 A HM	AG09 ▲		SD09.5			
16	9.5	110	33	S14.1609.33 A HM	AJTB ▼					
12	9	100	32	U18.1209.32 A HM	ACQC ▲		UD09.0	UX	UM4 x 12	T15F
12	9	100	45	U18.1209.45 A HM	AGK5 ▼					
12	9	120	64	U18.1209.64 A HM	AGEV ▼					
16	9	93	25	U18.1609.25 A HM	AAD3 ▲					
16	9	100	32	U18.1609.32 A HM	AAKX ▼					
16	9	110	45	U18.1609.45 A HM	AMCV ▼					
16	9	130	64	U18.1609.64 A HM	ANX9 ▲					
16	12	110	45	U18.1612.45 A HM	ADG9 ▼		UD12.0			
16	13	110	64	U18.1613.64 A HM	AFVT ▲		UD13.0			
16	13	130	66	U18.1613.66 A HM	AD9W ▼					
12	12	100	42	V22.1212.42 A HM	ABVM ▲		VD12.0			
12	12	130	60	V22.1212.60 A HM	AP4C ▼					
16	12	100	42	V22.1612.42 A HM	AAJW ▲					
16	12	130	60	V22.1612.60 A HM	AEYP ▼					
16	12	160	85	V22.1612.85 A HM	AJS8 ▲					
16	14.3	100	42	V28.1614.42 A HM	AGNA ▲		VD14.3	VX	VM5 x 12	T20T
16	14.3	130	60	V28.1614.60 A HM	AFWJ ▼					
16	14.3	160	85	V28.1614.85 A HM	ANDA ▲					
16	9	100	33	V33.1609.33 A HM	AAWZ ▲		VD09.0			
20	16	110	45	V22.2016.45 A HM	AF6W ▼		VD16.0			
20	16	130	65	V22.2016.65 A HM	ACHN ▼					
20	13.5	104	35	V28.2013.35 A HM	AE3N ▼					
20	14.3	160	85	V28.2014.85 A HM	AFNT ▼		VD14.3			

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

THREAD & GROOVE MILLING

TOOL HOLDING



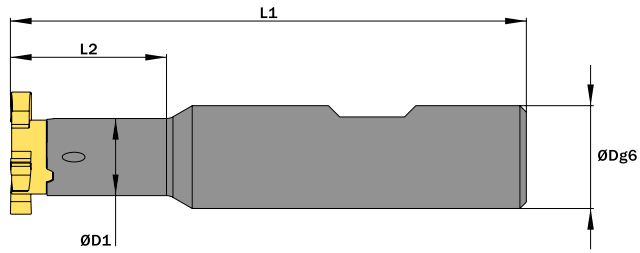
STEEL SHANK TOOL HOLDER WITH FLAT

Simtek® simmill® PX, SX, UX & VX



SECTION INDEX

- ▶ Steel weldon shank for general use
- ▶ Through Coolant
- ▶ Use connect code to match inserts to holders
- ▶ For easy ordering use **Short Code**



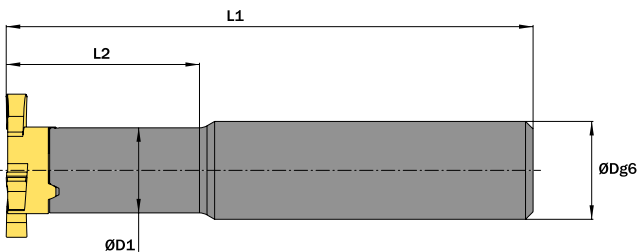
ØD g6	ØD1	L1	L2	ORDER CODE		PRICE	INSERTS P956-965		SPARES	
				Description	Short Code		Connect Code	Series	Screw	Torx Key
10	6	74	15	P10.1006.15 B ST	AGS0 ▲		PD06.0	PX	PM2.6 x 8	T8F
12	6	74	15	P10.1206.15 B ST	AK28 ▲					
16	6	80	12	P10.1606.12 B ST	AAB7 ▲					
16	8	80	16	S14.1608.16 B ST	AH01 ▲		SD08.0	SX	SM3.5x10	T10F
12	9	80	18	U18.1209.18 B ST	AV6E ▲		UD09.0	UX	UM4 x 12	T15F
16	9	80	18	U18.1609.18 B ST	ABP7 ▲					
16	12	80	24	V22.1612.24 B ST	AFWU ▲		VD12.0	VX	VM5 x 12	T20T
16	9	80	20	V33.1609.20 B ST	AB46 ▲		VD09.0			
20	14	100	35	V28.2014.35 B ST	AE05 ▲		VD14.0			

STEEL SHANK TOOL HOLDER PLAIN SHANK

Simtek® simmill® PX, SX, UX & VX



- ▶ Steel plain shank for general use
- ▶ Through Coolant
- ▶ Use connect code to match inserts to holders
- ▶ For easy ordering use **Short Code**



ØD g6	ØD1	L1	L2	ORDER CODE		PRICE	INSERTS P956-965		SPARES	
				Description	Short Code		Connect Code	Series	Screw	Torx Key
10	6	74	15	P10.1006.15 A ST	AG7K ▲		PD06.0	PX	PM2.6 x 8	T8F
12	6	74	15	P10.1206.15 A ST	AK28 ▲					
16	6	80	12	P10.1606.12 A ST	AE8E ▲					
16	8	80	16	S14.1608.16 A ST	AABY ▲		SD08.0	SX	SM3.5x10	T10F
12	9	80	18	U18.1209.18 A ST	AV6D ▲		UD09.0	UX	UM4 x 12	T15F
16	9	80	18	U18.1609.18 A ST	AGU5 ▲					
16	12	80	24	V22.1612.24 A ST	AHC0 ▲		VD12.0	VX	VM5 x 12	T20T
16	9	80	20	V33.1609.20 A ST	AB46 ▲		VD09.0			
20	14	100	35	V28.2014.35 A ST	AEWT ▲		VD14.0			

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

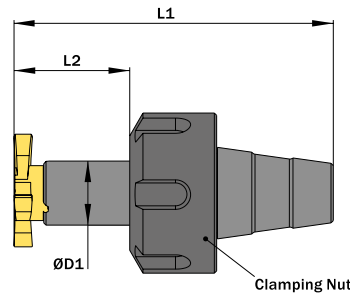
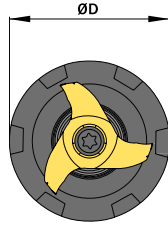


ER COLLET CHUCK TOOL HOLDER

Simtek® simmill® PX, SX, UX & VX



- ▶ For direct clamping into ER collet chucks
- ▶ Supplied with ER clamping nut
- ▶ Use connect code to match inserts to holders
- ▶ For easy ordering use **Short Code**



Collet Chuck Size	ØD	Nut Thread	ØD1	L1	L2	ORDER CODE		PRICE	INSERTS P956-965		SPARES	
						Description	Short Code		Connect Code	Series	Screw	Torx Key
ER11	19	M14x0.75	6.0	36.3	16.0	P10.ER11.06.16	AJFH ▼		PD06.0	PX	PM2.6 x 8	T8F
ER11	19	M13x0.75	6.0	36.3	16.0	P10.ER11.06.16.B	AVMP ▼					
ER11	36.3	M14x0.75	8.0	19.0	16.0	S14.ER11.08.16	AJE5 ▼		SD08.0	SX	SM3.5x10	T10F
ER11	36.3	M13x0.75	8.0	16.0	16.0	S14.ER11.08.16.B	AVMQ ▼					
ER16	52.0	M22x1.5	8.0	32.0	22.0	S14.ER16.08.22	ACTZ ▲					
ER16	52.0	M19x1.0	8.0	25.0	22.0	S14.ER16.08.22.B	AVMT ▲		UD09.0	UX	UM4 x 12	T15F
ER16	52.0	M19x1.0	8.0	22.0	22.0	S14.ER16.08.22.C	AVMU ▼					
ER20	56.5	M25x1.5	8.0	35.0	22.0	S14.ER20.08.22	AFFE ▼					
ER20	56.5	M24x1.0	8.0	28.0	22.0	S14.ER20.08.22.B	AVMZ ▼		VD12.0	VX	VM5 x 12	T20T
ER11	42.0	M14x0.75	9.0	19.0	22.0	U18.ER11.09.22	AAV2 ▼					
ER11	42.0	M13x0.75	9.0	16.0	22.0	U18.ER11.09.22.B	AVMS ▼					
ER16	52.0	M22x1.5	9.0	32.0	22.0	U18.ER16.09.22	APHJ ▲		VD14.0	VX	VM5 x 12	T20T
ER16	52.0	M19x1.0	9.0	25.0	22.0	U18.ER16.09.22.B	AVMV ▼					
ER16	52.0	M19x1.0	9.0	22.0	22.0	U18.ER16.09.22.C	AVMW ▲					
ER20	56.5	M25x1.5	9.0	35.0	22.0	U18.ER20.09.22	AC9J ▼		VD12.0	VX	VM5 x 12	T20T
ER20	56.5	M24x1.0	9.0	28.0	22.0	U18.ER20.09.22.B	AVM0 ▼					
ER25	60.0	M25x1.5	9.0	35.0	22.0	U18.ER25.09.22	AA1F ▲					
ER25	60.0	M30x1.0	9.0	42.0	22.0	U18.ER25.09.22.B	AVM3 ▼		VD14.0	VX	VM5 x 12	T20T
ER16	60.0	M22x1.5	12.0	32.0	30.0	V22.ER16.12.30	AD5W ▲					
ER16	60.0	M19x1.0	12.0	25.0	30.0	V22.ER16.12.30.B	AVMX ▼					
ER16	60.0	M19x1.0	12.0	22.0	30.0	V22.ER16.12.30.C	AVMY ▲		VD12.0	VX	VM5 x 12	T20T
ER20	64.5	M25x1.5	12.0	35.0	30.0	V22.ER20.12.30	APJ7 ▼					
ER20	64.5	M24x1.0	12.0	28.0	30.0	V22.ER20.12.30.B	AVM1 ▼					
ER20	69.5	M25x1.5	14.0	35.0	35.0	V28.ER20.14.35	ABJC ▼		VD14.0	VX	VM5 x 12	T20T
ER20	69.5	M24x1.0	14.0	28.0	35.0	V28.ER20.14.35.B	AVM2 ▼					
ER25	68.0	M32x1.5	12.0	35.0	30.0	V22.ER25.12.30	AESQ ▲					
ER25	68.0	M30x1.0	12.0	42.0	30.0	V22.ER25.12.30.B	AVM4 ▼		VD12.0	VX	VM5 x 12	T20T
ER25	63.0	M32x1.5	14.0	35.0	19.0	V22.ER25.14.19	AMP6 ▲					
ER25	63.0	M30x1.0	14.0	42.0	19.0	V22.ER25.14.19.B	AVM5 ▼					
ER25	73.0	M32x1.5	14.0	35.0	35.0	V28.ER25.14.35	APAS ▼		VD14.0	VX	VM5 x 12	T20T
ER25	73.0	M30x1.0	14.0	42.0	35.0	V28.ER25.14.35.B	AVM6 ▼					
ER32	74.0	M40x1.5	12.0	50.0	30.0	V22.ER32.12.30	AFVA ▲					
ER32	63.0	M40x1.5	14.0	50.0	19.0	V22.ER32.14.19	AKXJ ▲		VD14.0	VX	VM5 x 12	T20T
ER32	79.0	M40x1.5	14.0	50.0	35.0	V28.ER32.14.35	ACOB ▼					

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

THREAD & GROOVE MILLING

TOOL HOLDING



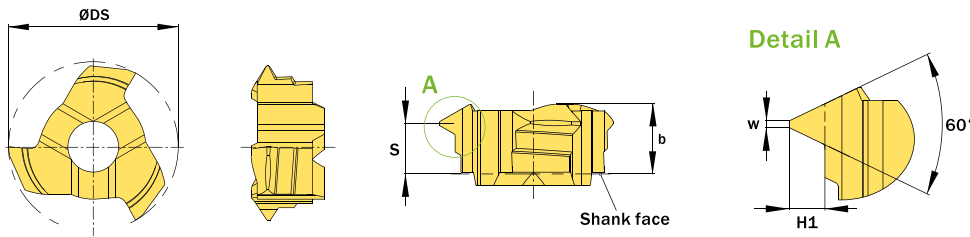
3 TOOTH INSERTS METRIC ISO FULL PROFILE THREAD

Simtek® simmill® PX, SX, UX & VX



SECTION INDEX

- ▶ For thread milling $\geq \text{Ø}10\text{mm}$ bores
- ▶ 0.75mm-4.5mm pitch
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

Pitch Min	ØDS	H1	b	S	w	ORDER CODE		PRICE EACH		HOLDERS P952-955	
						Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
0.75	9.7	0.41	3.6	3.1	0.09	P10.0407.02 M X800	AXX4X800 ▲			PD06.0 PD07.3	PX
1	9.7	0.54	3.6	3	0.13	P10.0510.02 M X800	AXX5X800 ▲				
1.5	9.7	0.81	3.6	2.8	0.19	P10.0815.02 M X800	AXX6X800 ▲				
1.75	9.7	0.95	3.6	2.7	0.2	P10.0917.02 M X800	AXX7X800 ▲				
2	9.7	1.08	3.6	2.6	0.25	P10.1020.02 M X800	AXX8X800 ▲				
2.5	9.7	1.35	3.6	2.4	0.31	P10.1325.02 M X800	AXX9X800 ▼			PD06.0	
1	13.7	0.55	4.5	3.6	0.13	S14.0510.02 M X800	AXXYX800 ▲			SD08.0 SD09.5	SX
1.5	13.7	0.81	4.5	3.5	0.19	S14.0815.02 M X800	AXXZX800 ▲				
1.75	13.7	0.95	4.5	3.4	0.2	S14.0917.02 M X800	AXX0X800 ▲				
2	13.7	1.08	4.5	3.3	0.25	S14.1020.02 M X800	AXX1X800 ▲				
2.5	13.7	1.35	4.5	3.1	0.31	S14.1325.02 M X800	AXX2X800 ▼				
3	13.7	1.62	4.5	2.9	0.37	S14.1630.02 M X800	AXX3X800 ▼				
1.5	17.7	0.81	5.85	4.8	0.18	U18.0815.02 M X800	AHK3X800 ▼			UD09.0 UD12.0 UD13.0	UX
1.75	17.7	0.95	5.85	4.7	0.2	U18.0917.02 M X800	AK07X800 ▼				
2	17.7	1.08	5.85	4.6	0.25	U18.1020.02 M GN39	AE0EX800 ▲				
2.5	17.7	1.35	5.85	4.4	0.31	U18.1325.02 M X800	AJY6X800 ▲				
3	17.7	1.62	5.85	4.3	0.37	U18.1630.02 M X800	AJYFX800 ▲				
3.5	17.7	1.89	5.85	4	0.43	U18.1835.02 M X800	AN9WX800 ▲				
1.5	21.7	0.81	5.85	4.8	0.19	V22.0815.02 M X800	AA28X800 ▼			VD11.3 VD11.5 VD12.0 VD12.7 VD13.5 VD14.0 VD14.3 VD15.0 VD16.0	VX
1.75	21.7	0.95	5.85	4.7	0.22	V22.0917.02 M X800	AD26X800 ▼				
2.0	21.7	1.08	5.85	4.6	0.25	V22.1020.02 M X800	APM9X800 ▲				
3.0	21.7	1.62	5.85	4.3	0.37	V22.1630.02 M X800	ADAAX800 ▲				
3.5	21.7	1.89	5.85	4.1	0.43	V22.1835.02 M X800	AHUYX800 ▲				
4.0	21.7	2.16	5.85	3.9	0.5	V22.2140.02 M X800	AD70X800 ▲				
4.5	21.7	2.43	5.85	3.7	0.56	V22.2445.02 M X800	AEFAX800 ▼				

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

SIMTEK X800 GRADIUM INSERTS



- ▶ High performance coating developed by Simtek
- ▶ Ultra wear resistant carbide substrate
- ▶ Special cutting edge finish for each combination of tool and application
- ▶ Excellent performance machining steels, stainless steels, heat resistant super alloys, cast iron and aluminium
- ▶ Also available in uncoated grades on request

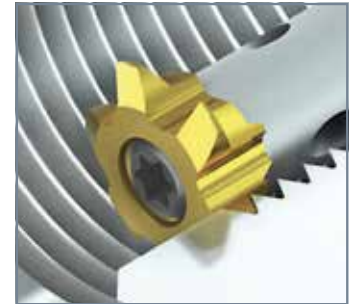
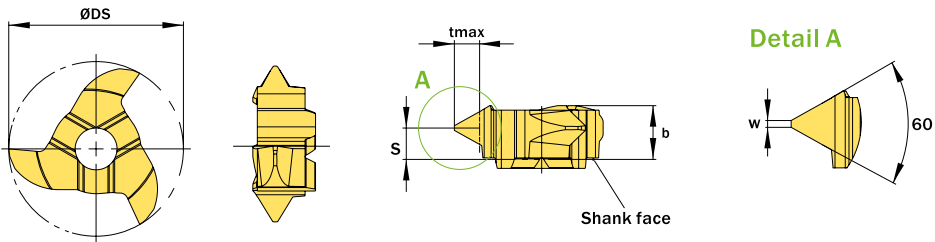


3 TOOTH INSERTS METRIC ISO PARTIAL PROFILE THREAD

Simtek® simmill® PX, SX, UX & VX



- ▶ For thread milling $\geq \varnothing 12\text{mm}$ bores
- ▶ 1mm-4.5mm pitch
- ▶ For easy ordering use **Short Code**



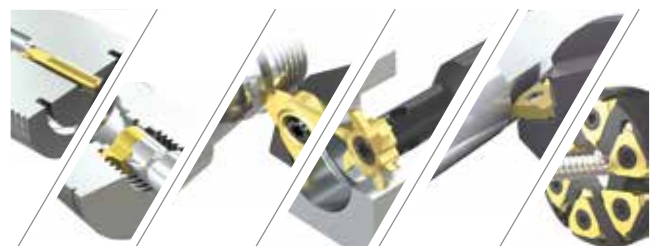
simmill®
Sigma-Line Milling Tools

Pitch Min	Pitch Max	ØDS	b	S	w	tmax	ORDER CODE		PRICE EACH		HOLDERS P952-955	
							Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
1	1.75	11.7	3.6	2.8	0.13	1.08	P12.0510.01 M X800	ANQCX800 ▼			PD06.0 PD07.3	PX
1	2	11.7	3.6	2.8	0.13	1.25	P12.0720.01 M X800	ANJZX800 ▲				
1.5	2.75	11.7	3.6	2.4	0.19	1.67	P12.0815.01 M X800	AC51X800 ▼				
2	3	11.7	3.6	2.2	0.25	1.78	P12.2530.01 M X800	ADMQX800 ▲				
1	1.75	15.7	4.6	3.8	0.12	1.08	S16.0510.01 M X800	AA4JX800 ▼			SD08.0 SD09.5	SX
1	2	15.7	4.6	3.5	0.12	1.25	S16.0720.01 M X800	AJE4X800 ▲				
1.5	2.75	15.7	4.6	3.5	0.19	1.67	S16.0815.01 M X800	AGS8X800 ▼				
2.5	3	15.7	4.6	3.4	0.31	1.78	S16.2530.01 M X800	AEESX800 ▲				
1	1.75	17.7	5.85	5.0	0.12	1.03	U18.0510.01 M X800	ADHCX800 ▼			UD09.0 UD12.0 UD13.0	UX
1	2	17.7	5.85	4.7	0.12	1.19	U18.0720.01 M X800	AA8MX800 ▲				
1.5	2.75	17.7	5.85	4.6	0.19	1.62	U18.0815.01 M X800	AM2QX800 ▼				
2	3.75	17.7	5.85	4.2	0.25	2.22	U18.1020.01 M X800	AN15X800 ▲				
2	3	17.7	5.85	4.4	0.25	1.73	U18.1325.01 M X800	AAUQX800 ▼				
2.5	5	17.7	5.85	3.8	0.31	2.98	U18.1630.01 M X800	AH9GX800 ▼			UD09.0	
3	5.5	17.7	5.85	3.6	0.38	3.25	U18.1835.01 M X800	ADW6X800 ▼				
2	3.5	17.7	5.85	4.2	0.25	2.06	U18.2535.01 M X800	APTVX800 ▼			UD09.0/UD12.0	
1	2	21.7	5.85	4.6	0.12	1.19	V22.0720.01 M X800	ABS8X800 ▲			VD11.3 VD11.5 VD12.0	VX
1.5	2.75	21.7	5.85	4.5	0.18	1.62	V22.0815.01 M X800	AA9KX800 ▼				
2	3.75	21.7	5.85	4.2	0.25	2.22	V22.1020.01 M X800	ADZUX800 ▲				
2.5	5	21.7	5.85	3.8	0.31	2.98	V22.1630.01 M X800	AF00X800 ▲			VD12.0	VX
3.5	6	21.7	5.85	3.4	0.44	3.52	V22.2140.01 M X800	AF72X800 ▼				
3.5	6.5	21.7	5.85	3.2	0.44	3.84	V22.2445.01 M X800	ABAFX800 ▲				
2.5	4.5	21.7	5.85	3.7	0.25	2.7	V22.2545.01 M X800	AEAAX800 ▼				

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

SIMTEK SPECIAL TOOLS

- ▶ Special inserts and tools for applications including thread milling, groove milling, thread turning, groove turning, broaching, polygon milling, boring & form grooving
- ▶ Contact our technical team for support with your application



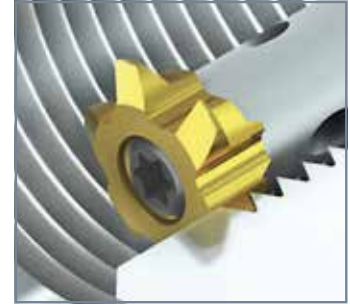
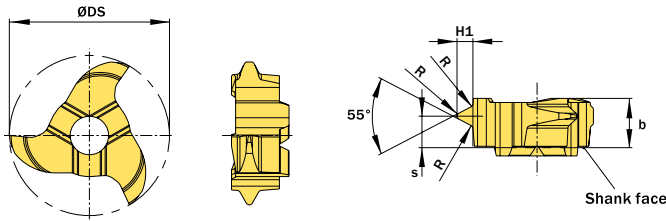
3 TOOTH INSERTS WHITWORTH FULL PROFILE THREAD

Simtek® simmill® PX, SX, UX & VX



SECTION INDEX

- ▶ Suitable for Whitworth form threads including BSW, BSP(G), BSF
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

TPI	Nominal Thread Size BSP(G)	H1	S	ØDS	ORDER CODE		PRICE EACH		HOLDERS P952-955	
					Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
19	G 1/4"	0.86	2.5	13.0	P10.0813.19 M X800	A1EKX800 ▲			PD06.0 PD07.3	PX
19	G 3/8"	0.86	2.5	11.7	P12.0813.19 M X800	AC8HX800 ▲				
14	G 1/2"	1.16	2.3	11.7	P12.1118.14 M X800	AGX4X800 ▲				
11	G 1"	1.48	2.0	11.7	P12.1423.11 M X800	AC4KX800 ▲			SD08.0 SD09.5	SX
14	G 5/8"	1.17	3.0	15.7	S16.1118.14 M X800	AT8AX800 ▲				
11	G 1"	1.48	2.8	15.7	S16.1423.11 M X800	AT79X800 ▲			UD09.0 UD12.0 UD13.0	UX
19	-	0.856	4.88	17.7	U18.BS19.02 M X800	AS05X800 ▼				
14	G 3/4"	1.16	4.64	17.7	U18.BS14.02 M X800	AS06X800 ▲				
11	G 1"	1.48	4.4	17.7	U18.BS11.02 M X800	AS07X800 ▲			VD11.3 VD11.5 VD12.0 VD12.7 VD13.5 VD14.0 VD14.3 VD15.0 VD16.0	VX
11	G 1"	1.48	4.0	21.7	V22.5511.02 M X800	ADVFX800 ▲				
8	-	2.03	3.5	21.7	V22.5508.02 M X800	ANNKX800 ▼				
6	-	2.71	3.1	21.7	V22.5506.02 M X800	AMJFX800 ▼				

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SIMTEK X800 GRADIUM INSERTS



- ▶ High performance coating developed by Simtek
- ▶ Ultra wear resistant carbide substrate
- ▶ Special cutting edge finish for each combination of tool and application
- ▶ Excellent performance machining steels, stainless steels, heat resistant super alloys, cast iron and aluminium
- ▶ Also available in uncoated grades on request

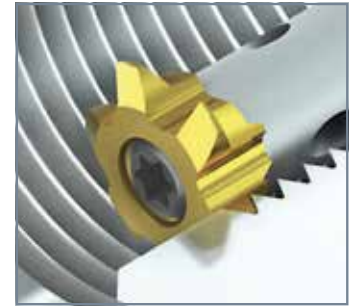
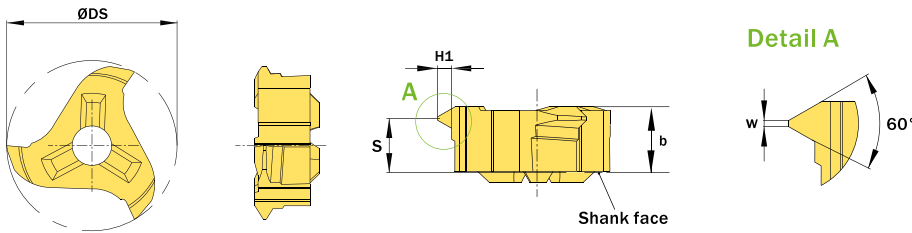


3 TOOTH INSERTS UN FULL PROFILE THREAD

Simtek® simmill® UX



- ▶ Suitable for UNIFIED form threads including UNC, UNF, UNEF
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

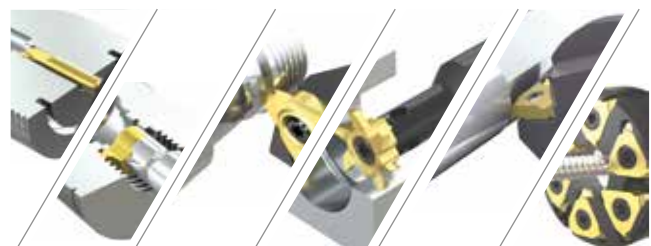
TPI	H1	b	S	ØDS	w	ORDER CODE		PRICE EACH		HOLDERS P952-955	
						Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
24	0.572	5.85	5.2	17.7	0.13	U18.UN24.02 M X800	AS0WX800 ▲			UD09.0 UD12.0 UD13.0	UX
20	0.687	5.85	5.15	17.7	0.16	U18.UN20.02 M X800	AS0XX800 ▲				
18	0.763	5.85	5.1	17.7	0.18	U18.UN18.02 M X800	AS0YX800 ▲				
16	0.859	5.85	5.0	17.7	0.19	U18.UN16.02 M X800	AS0ZX800 ▲				
14	0.981	5.85	4.95	17.7	0.23	U18.UN14.02 M X800	AS00X800 ▲				
12	1.146	5.85	4.85	17.7	0.27	U18.UN12.02 M X800	AS01X800 ▲				
11	1.25	5.85	4.75	17.7	0.29	U18.UN11.02 M X800	AS02X800 ▲				
10	1.375	5.85	4.65	17.7	0.32	U18.UN10.02 M X800	AS03X800 ▲				
8	1.718	5.85	4.4	17.7	0.39	U18.UN08.02 M X800	AS04X800 ▲				
6	2.29	5.85	4.2	17.7	0.53	U18.UN06.02 M X800	AS7QX800 ▲				

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

SIMTEK SPECIAL TOOLS

- ▶ Special inserts and tools for applications including thread milling, groove milling, thread turning, groove turning, broaching, polygon milling, boring & form grooving
- ▶ Contact our technical team for support with your application

simmill simcut simturn



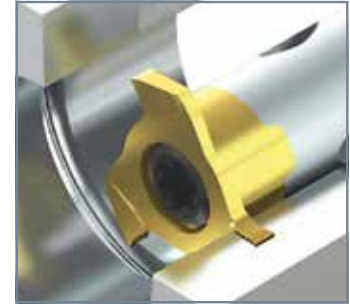
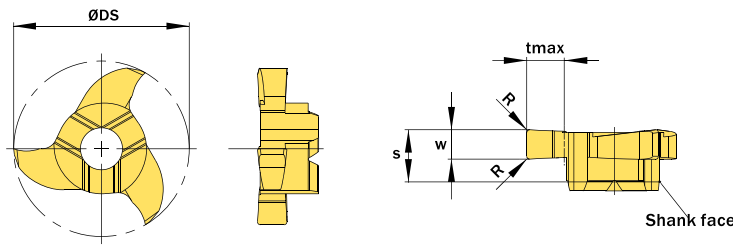
3 TOOTH INSERTS GENERAL GROOVE MILLING

Simtek® simmill® PX, SX & UX



SECTION INDEX

- ▶ Available in insert widths 1.0-4.0mm
- ▶ For minimum bores $\geq \varnothing 10$
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

W +0.02	R	ØD Min Bore	tmax	S	ØDS	ORDER CODE		PRICE EACH		HOLDERS P952-955	
						Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
1	0.1	10	1.5	3.5	9.7	P10.0100.01 G X800	AVH5X800 ▲			PD06.0	PX
1.5	0.2		1.5	3.5	9.7	P10.0150.02 G X800	APHMX800 ▲				
1.57	-		1.5	3.5	9.7	P10.0157.00 G X800	APT8X800 ▼				
2	0.2		1.5	3.5	9.7	P10.0200.02 G X800	ABGQX800 ▲				
2.5	0.2		1.5	3.5	9.7	P10.0250.02 G X800	AM11X800 ▼				
1.5	0.2	12	2.5	3.5	11.7	P12.0150.02 G X800	AM2NX800 ▲				
1.57	0.2		2.5	3.5	11.7	P12.0157.02 G X800	APGWX800 ▼				
2	0.2		2.5	3.5	11.7	P12.0200.02 G X800	APVDX800 ▲				
2.5	0.2		2.5	3.5	11.7	P12.0250.02 G X800	ABHMX800 ▲				
1	-	14	2.5	4.5	13.7	S14.0100.00 G X800	AVH6X800 ▼			SD08.0	SX
1	0.1		2.5	4.5	13.7	S14.0100.01 G X800	ADNZX800 ▲				
1.17	-		2.5	4.5	13.7	S14.0117.00 G X800	AB4VX800 ▼				
1.42	-		2.5	4.5	13.7	S14.0142.00 G X800	AAD1X800 ▼				
1.5	0.2		2.5	4.5	13.7	S14.0150.02 G X800	AGJ3X800 ▲				
1.57	0.2		2.5	4.5	13.7	S14.0157.02 G X800	AHP3X800 ▼				
2	0.2		2.5	4.5	13.7	S14.0200.02 G X800	AMG7X800 ▲				
2.39	0.2		2.5	4.5	13.7	S14.0239.02 G X800	APC6X800 ▼				
2.5	0.2		2.5	4.5	13.7	S14.0250.02 G X800	ANZTX800 ▲				
1.17	-		16	3.5	4.5	15.7	S16.0117.00 G X800	ABPSX800 ▼			
1.42	-	3.5		4.5	15.7	S16.0142.00 G X800	AFV8X800 ▼				
1.5	0.2	3.5		4.5	15.7	S16.0150.02 G X800	AMBCX800 ▼				
1.57	0.2	3.5		4.5	15.7	S16.0157.02 G X800	ACMXX800 ▼				
2	0.2	3.5		4.5	15.7	S16.0200.02 G X800	ABYCX800 ▲				
2.39	0.2	3.5		4.5	15.7	S16.0239.02 G X800	AFN8X800 ▼				
2.5	0.2	3.5		4.5	15.7	S16.0250.02 G X800	AF11X800 ▲				
1.17	-	18	3.5	5.8	17.7	U18.0117.00 G X800	AAU0X800 ▼			UD09.0	UX
1.42	-		3.5	5.8	17.7	U18.0142.00 G X800	ANB1X800 ▼				
1.5	0.2		3.5	5.8	17.7	U18.0150.02 G X800	AMW2X800 ▲				
1.55	0.2		3.5	5.8	17.7	U18.0157.02 G X800	AJ80X800 ▼				
2	0.2		3.5	5.8	17.7	U18.0200.02 G X800	AJXKX800 ▲				
2.39	0.2		3.5	5.8	17.7	U18.0239.02 G X800	AG6EX800 ▼				
2.5	0.2		3.5	5.8	17.7	U18.0250.02 G X800	ABXHX800 ▲				
3	0.2		3.5	5.8	17.7	U18.0300.02 G X800	ADJZX800 ▲				
3.18	0.2		3.5	5.8	17.7	U18.0318.02 G X800	AJZUX800 ▼				
4	0.2		3.5	5.8	17.7	U18.0400.02 G X800	AJUUX800 ▲				
1.5	0.2	20	4.5	5.8	19.7	U20.0150.02 G X800	AX11X800 ▼				
2	0.2		4.5	5.8	19.7	U20.0200.02 G X800	AX13X800 ▼				
2.5	0.2		4.5	5.8	19.7	U20.0250.02 G X800	AX12X800 ▼				

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

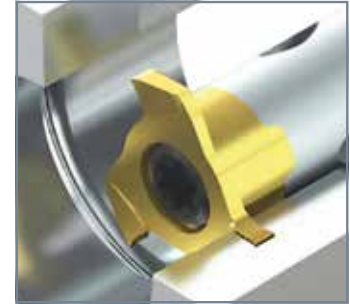
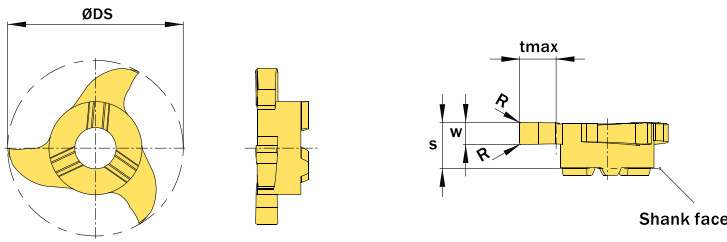


3 TOOTH INSERTS GENERAL GROOVE MILLING

Simtek® simmill® VX



- ▶ Available in insert widths 1.0-10.0mm
- ▶ For minimum bores $\geq \varnothing 22$
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

W +0.02	R	ØD Min Bore	tmax	S	ØDS	ORDER CODE		PRICE EACH		HOLDERS P952-955	
						Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
1	0.1	22	4.5	5.7	21.7	V22.0100.01 G X800	AEQMX800 ▲			VD12.0	
1.5	0.2		4.5	5.7	21.7	V22.0150.02 G X800	AHH9X800 ▲				
1.57	0.2		4.5	5.7	21.7	V22.0157.02 G X800	ANQXX800 ▼				
2	0.2		4.5	5.7	21.7	V22.0200.02 G X800	ADNUX800 ▲				
2.39	0.2		4.5	5.7	21.7	V22.0239.02 G X800	AHMNX800 ▼				
2.5	0.2		4.5	5.7	21.7	V22.0250.02 G X800	AKKFX800 ▲				
3	0.2		4.5	5.7	21.7	V22.0300.02 G X800	ABXXX800 ▲				
3.18	0.2		4.5	5.7	21.7	V22.0318.02 G X800	AK15X800 ▼				
3.18	0.4		4.5	5.7	21.7	V22.0318.04 G X800	AB1PX800 ▼				
3.5	0.2		4.5	5.7	21.7	V22.0350.02 G X800	AM6NX800 ▲				
3.56	0.2		4.5	5.7	21.7	V22.0356.02 G X800	AD90X800 ▼				
4	0.2		4.5	5.7	21.7	V22.0400.02 G X800	AF5NX800 ▼				
4	0.4		4.5	5.7	21.7	V22.0400.04 G X800	AGMHX800 ▲				
4.37	0.2		4.5	5.7	21.7	V22.0437.02 G X800	AHBPX800 ▼				
4.37	0.4		4.5	5.7	21.7	V22.0437.04 G X800	AEPHX800 ▼				
4.75	0.2		4.5	5.7	21.7	V22.0475.02 G X800	ADF7X800 ▼				
2	0.2	25	5	6.5	24.8	V25.0200.02 G X800	AHS7X800 ▲			VD14.0 VD14.3	VX
2.39	0.2		5	6.5	24.8	V25.0239.02 G X800	APTWX800 ▼				
2.5	0.2		5	6.5	24.8	V25.0250.02 G X800	ACG1X800 ▲				
3	0.2		5	6.5	24.8	V25.0300.02 G X800	AFPBX800 ▲				
3.18	0.2		5	6.5	24.8	V25.0318.02 G X800	AAZ4X800 ▼				
3.5	0.2		5	6.5	24.8	V25.0350.02 G X800	AKG8X800 ▲				
4	0.2		5	6.5	24.8	V25.0400.02 G X800	AA9XX800 ▲				
4.75	0.2		5	6.5	24.8	V25.0475.02 G X800	AMMVX800 ▲				
1.5	0.2	28	6.5	6.5	27.7	V28.0150.02 G X800	AN4AX800 ▲			VD14.0 VD14.3	
2	0.2		6.5	6.5	27.7	V28.0200.02 G X800	AG3VX800 ▲				
2.5	0.2		6.5	6.5	27.7	V28.0250.02 G X800	AECZX800 ▲				
3	0.2		6.5	6.5	27.7	V28.0300.02 G X800	ADQJX800 ▲				
3.5	0.2		6.5	6.5	27.7	V28.0350.02 G X800	APOWX800 ▲				
4	0.2		6.5	6.5	27.7	V28.0400.02 G X800	AGNXX800 ▲				
5	0.2		6.5	6.5	27.7	V28.0500.02 G X800	APSTX800 ▲				
6	0.2		6.5	6.5	27.7	V28.0600.02 G X800	APNVX800 ▲				
10	0.2	6.5	10	27.7	V28.1000.02 G X800	AXXPX800 ▲					
1.5	0.2	28	9.3	6.5	28	V28.0150.02.09 G X800	AC15X800 ▼			VD09.0	
2	0.2		9.3	6.5	28	V28.0200.02.09 G X800	AM94X800 ▼				
2.5	0.2		9.3	6.5	28	V28.0250.02.09 G X800	AD74X800 ▼				
2	0.2	32	8.5	6.5	31.7	V32.0200.02 G X800	AE2XX800 ▲			VD14.0 VD14.3	
2	0.2		10	6.5	31.7	V32.0200.02.11 G X800	AX0GX800 ▼				
2.5	0.2		8.5	6.5	31.7	V32.0250.02 G X800	AAPWX800 ▲				
3	0.2		8.5	6.5	31.7	V32.0300.02 G X800	ACYJX800 ▲				

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

THREAD & GROOVE MILLING



TOOL HOLDING

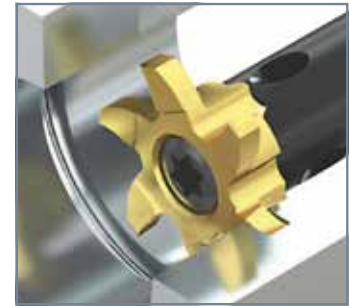
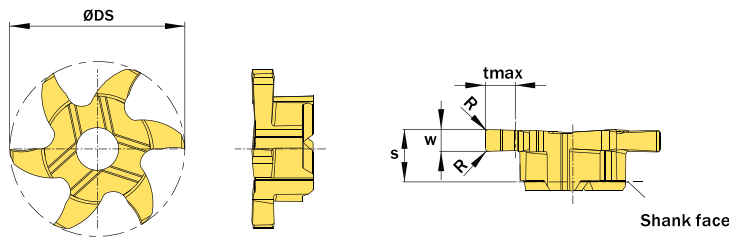
6 TOOTH INSERTS GENERAL GROOVE MILLING SMOOTH CUTTING

Simtek® simmill® PX, SX, UX & VX



SECTION INDEX

- ▶ Special edge geometry for smoother cutting & better surface finish
- ▶ Available in insert widths 1.0-6.0mm
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

W +0.02	R	ØD Min Bore	tmax	S	ØDS	ORDER CODE		PRICE EACH		HOLDERS P952-955	
						Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
1.5	0.2	12	2	3.5	11.7	P06.0150.020.12 GY X800	AYF3X800 ▲			PD06.0 PD07.3	PX
2	0.2		2	3.5	11.7	P06.0200.020.12 GY X800	AYF4X800 ▲				
1.5	0.2	16	2.5	4.5	15.7	S06.0150.020.16 GY X800	AYF0X800 ▲			SD08.0 SD09.5	SX
2	0.2		2.5	4.5	15.7	S06.0200.020.16 GY X800	AYF1X800 ▲				
2.5	0.2		2.5	4.5	15.7	S06.0250.020.16 GY X800	AYF2X800 ▲				
2	0.2	18	4	5.8	17.7	U06.0200.020.18 GY X800	AYFPX800 ▲			UD09.0	UX
2.5	0.2		4	5.8	17.7	U06.0250.020.18 GY X800	AYFSX800 ▲				
3	0.2		4	5.8	17.7	U06.0300.020.18 GY X800	AYFTX800 ▲				
1	0.1	22	4.5	6.2	21.7	V06.0100.010.22 G X800	AGZWX800 ▲			VD12.0	VX
1.5	0.1		4.5	6.2	21.7	V06.0150.010.22 G X800	AGY6X800 ▲				
2	0.2		4.5	6.2	21.7	V06.0200.020.22 G X800	AFJQX800 ▲				
2.5	0.2		4.5	6.2	21.7	V06.0250.020.22 G X800	AKJ5X800 ▲				
3	0.2		4.5	6.2	21.7	V06.0300.020.22 G X800	AFBBX800 ▲				
4	0.2		4.5	6.2	21.7	V06.0400.020.22 G X800	APZWX800 ▲				
2.5	0.2	28	6.5	6.2	27.7	V06.0250.020.28 GY X800	AYJCX800 ▼			VD14.0 VD14.3	VX
2.76	0.2		6.5	6.2	27.7	V06.0265.020.28 GY X800	AYF8X800 ▼				
3	0.2		6.5	6.2	27.7	V06.0300.020.28 GY X800	AYF9X800 ▲				
4	0.2		6.5	6.2	27.7	V06.0400.020.28 GY X800	AYGAX800 ▲				
5	0.2		6.5	6.2	27.7	V06.0500.020.28 GY X800	AYGBX800 ▲				
6	0.2		6.5	6.2	27.7	V06.0600.020.28 GY X800	AYGCX800 ▼				

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

SIMTEK X800 GRADIUM INSERTS



- ▶ High performance coating developed by Simtek
- ▶ Ultra wear resistant carbide substrate
- ▶ Special cutting edge finish for each combination of tool and application
- ▶ Excellent performance machining steels, stainless steels, heat resistant super alloys, cast iron and aluminium
- ▶ Also available in uncoated grades on request

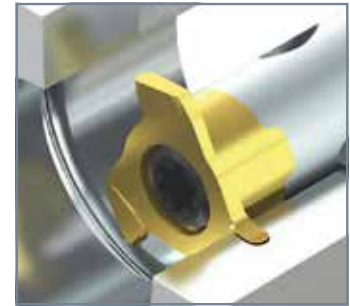
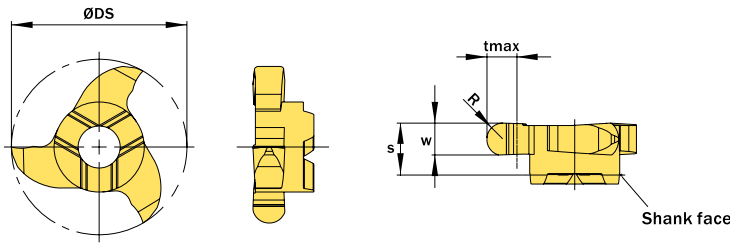


3 TOOTH INSERTS FULL RADIUS GROOVE MILLING

Simtek® simmill® PX, SX, UX & VX



- ▶ Available in insert radii 1.1-2.5mm
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

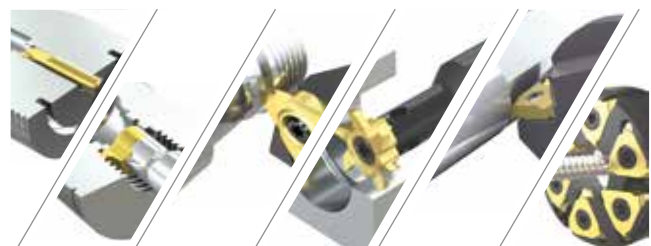
W +0.02	R	ØD Min Bore	tmax	S	ØDS	ORDER CODE		PRICE EACH		HOLDERS P952-955	
						Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
2.2	1.1	12	2.5	3.5	11.7	P12.0011.22 V X800	AC2HX800 ▲			PD06.0	PX
2.2	1.1	16	3.5	4.6	15.7	S16.0011.22 V X800	ACJPX800 ▲			SD08.0	SX
2	1	18	3.5	5.8	17.7	U18.0010.20 V X800	AAKMX800 ▲			UD09.0	UX
2.2	1.1		3.5	5.8	17.7	U18.0011.22 V X800	AM4FX800 ▲				
3	1.5		3.5	5.8	17.7	U18.0015.30 V X800	AEDUX800 ▲				
1	0.5	22	4.5	5.8	21.7	V22.0005.10 V X800	AD2WX800 ▲			VD12.0	VX
1.6	0.8		4.5	5.8	21.7	V22.0008.16 V X800	AFEEX800 ▲				
2	1		4.5	5.8	21.7	V22.0010.20 V X800	ABHYX800 ▲				
2.4	1.2		4.5	5.8	21.7	V22.0012.24 V X800	ACH9X800 ▲				
2.8	1.4		4.5	5.8	21.7	V22.0014.28 V X800	ADDYX800 ▲				
3	1.5		4.5	5.8	21.7	V22.0015.30 V X800	AF96X800 ▲				
4	2		4.5	5.8	21.7	V22.0020.40 V X800	ACC4X800 ▲				
4.4	2.2		4.5	5.8	21.7	V22.0022.44 V X800	AC2YX800 ▲				
5	2.5		4.5	5.8	21.7	V22.0025.50 V X800	AH32X800 ▲				

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

SIMTEK SPECIAL TOOLS

- ▶ Special inserts and tools for applications including thread milling, groove milling, thread turning, groove turning, broaching, polygon milling, boring & form grooving
- ▶ Contact our technical team for support with your application

simmill simcut simturn



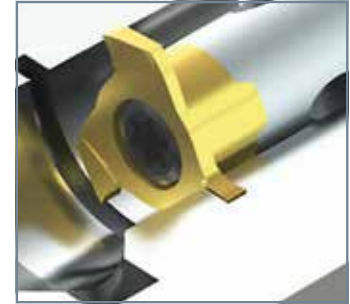
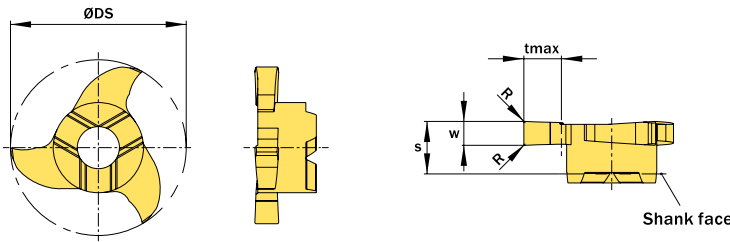
3 TOOTH INSERTS CIRCLIP GROOVE MILLING INTERNAL

Simtek® simmill® PX, UX, VX & VX



SECTION INDEX

- ▶ For circlip grooves 0.7mm - 5.15mm
- ▶ For minimum bores $\geq \varnothing 10$
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

W +0.02	Nominal Groove Width	R	ØD Min Bore	tmax	S	ØDS	ORDER CODE		PRICE EACH		HOLDERS P952-955	
							Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
0.74	0.7	-	10	1.5	3.5	9.7	P10.0070.00 Z X800	AHB1X800 ▲			PD06.0	PX
0.84	0.8	-		1.5	3.5	9.7	P10.0080.00 Z X800	AKU6X800 ▲				
0.94	0.9	-		1.5	3.5	9.7	P10.0090.00 Z X800	AG93X800 ▲				
1.04	1	-		1.5	3.5	9.7	P10.0100.00 G X800	AA4QX800 ▲				
1.21	1.1	-		1.5	3.5	9.7	P10.0110.00 G X800	AJ8ZX800 ▲				
1.41	1.3	0.1		1.5	3.5	9.7	P10.0130.01 G X800	AJVPX800 ▲				
1.71	1.6	0.1		1.5	3.5	9.7	P10.0160.01 G X800	AGG7X800 ▲				
1.21	1.1	-	12	2.5	3.5	11.7	P12.0110.00 G X800	ACHBX800 ▲				
1.41	1.3	0.1		2.5	3.5	11.7	P12.0130.01 G X800	AGB6X800 ▲				
1.71	1.6	0.1		2.5	3.5	11.7	P12.0160.01 G X800	AK06X800 ▲				
1.21	1.1	-	18	3.5	5.8	17.7	U18.0110.00 G X800	AEQDX800 ▲			UD09.0	UX
1.41	1.3	0.1		3.5	5.8	17.7	U18.0130.01 G X800	AG1PX800 ▲				
1.71	1.6	0.1		3.5	5.8	17.7	U18.0160.01 G X800	AKKZX800 ▲				
1.41	1.3	0.1	22	4.5	5.7	21.7	V22.0130.01 G X800	ACS5X800 ▲			VD12.0	VX
1.71	1.6	0.1		4.5	5.7	21.7	V22.0160.01 G X800	ABJ5X800 ▲				
1.96	1.85	0.15		4.5	5.7	21.7	V22.0185.02 G X800	AGKUX800 ▲				
2.26	2.15	0.15		4.5	5.7	21.7	V22.0215.02 G X800	AFGWX800 ▲				
2.76	2.65	0.15		4.5	5.7	21.7	V22.0265.02 G X800	ADKFX800 ▲				
3.26	3.15	0.15		4.5	5.7	21.7	V22.0315.02 G X800	AMP1X800 ▲				
4.26	4.15	0.15		4.5	5.7	21.7	V22.0415.02 G X800	AE13X800 ▲				
5.26	5.15	0.15		4.5	5.7	21.7	V22.0515.02 G X800	AEK1X800 ▲				
5.26	5.15	0.4	4.5	5.7	21.7	V22.0515.04 G X800	AAG9X800 ▼					

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

SIMTEK X800 GRADIUM INSERTS



- ▶ High performance coating developed by Simtek
- ▶ Ultra wear resistant carbide substrate
- ▶ Special cutting edge finish for each combination of tool and application
- ▶ Excellent performance machining steels, stainless steels, heat resistant super alloys, cast iron and aluminium
- ▶ Also available in uncoated grades on request

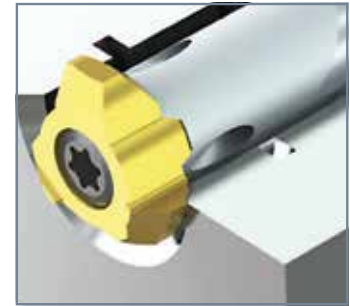
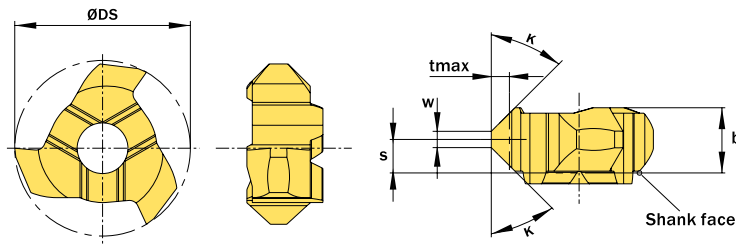


3 TOOTH INSERTS CHAMFER MILLING

Simtek® simmill® PX, SX, UX & VX



- ▶ For minimum bores $\geq \varnothing 10$
- ▶ For easy ordering use **Short Code**



simmill®
Sigma-Line Milling Tools

K	W +0.02	ØD Min Bore	b	S	tmax	ØDS	ORDER CODE		PRICE EACH		HOLDERS P952-955	
							Description	Short Code	1-4pcs	5+pcs	Connect Code	Series
45°	0.2	9.6	3.3	1.7	1.4	9.3	P09.4545.02 F X800	AA0UX800 ▲				
45°	0.9	10	3.5	1.8	1	9.7	P10.4545.35 F X800	AJHXX800 ▲				PX
45°	1.2	12	3.5	1.8	0.8	11.7	P12.4545.35 F X800	ABG0X800 ▼				
45°	0.2	16	1.8	4.5	2.3	15.7	S16.4545.02 F X800	AF2UX800 ▲				SX
45°	1.4	16	1.4	4.5	2.3	15.7	S16.4545.45 F X800	AH98X800 ▼				
45°	-	15	2.5	3	14.7	0.2	U15.4545.58 F X800	AGQFX800 ▲				
45°	-	18	2.5	3	17.7	0.2	U18.4545.20 F X800	AHA2X800 ▲				UX
45°	-	18	1.4	3	17.7	2.5	U18.4545.58 F X800	ACKWX800 ▼				
45°	2	22	1.7	5.85	3	21.7	V22.4545.58 F X800	ADU1X800 ▲				VX
45°	3	22	3	9.4	4.8	21.7	V22.4545.94 F X800	AH71X800 ▼				

▲ UK stock - Generally x-stock for next day delivery ▼ European stock - Generally 2-3 days delivery (please check for lead times)

SIMTEK SPECIAL TOOLS

- ▶ Special inserts and tools for applications including thread milling, groove milling, thread turning, groove turning, broaching, polygon milling, boring & form grooving
- ▶ Contact our technical team for support with your application

simmill simcut simturn

