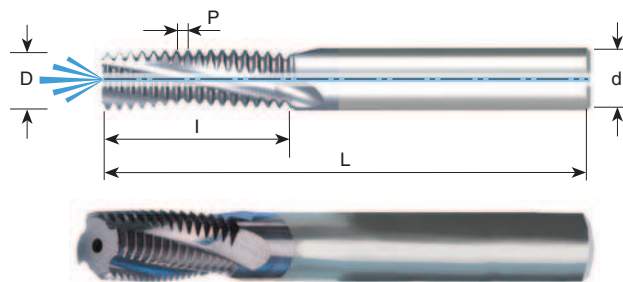
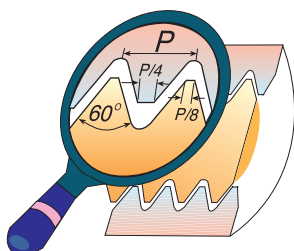


ISO With internal coolant bore

Tools for Internal Thread



Pitch mm	M coarse	M fine	Ordering Code	d	D	No. of Flutes	I	L
0.5		$\varnothing \geq 5$	MTB06038C10 0.5 ISO	6	3.8	3	10.3	58
0.7	M 4	$\varnothing \geq 5$	MTB06031C7 0.7 ISO	6	3.1	3	7.4	58
0.75		$\varnothing \geq 6$	MTB06045C10 0.75 ISO	6	4.5	3	10.1	58
0.75		$\varnothing \geq 12$	MTB1010D24 0.75 ISO	10	10.0	4	24.4	73
0.8	M 5	$\varnothing \geq 6$	MTB06038C9 0.8 ISO	6	3.8	3	9.2	58
1.0	M 6	$\varnothing \geq 7$	MTB06046C10 1.0 ISO	6	4.6	3	10.5	58
1.0	M 6	$\varnothing \geq 7$	MTB06046C14 1.0 ISO	6	4.6	3	14.5	58
1.0		$\varnothing \geq 9$	MTB0606C12 1.0 ISO	6	6.0	3	12.5	58
1.0		$\varnothing \geq 10$	MTB0808D16 1.0 ISO	8	8.0	4	16.5	64
1.0		$\varnothing \geq 12$	MTB1010D24 1.0 ISO	10	10.0	4	24.5	73
1.25	M 8	$\varnothing \geq 10$	MTB0606C14 1.25 ISO	6	6.0	3	14.4	58
1.25	M 8	$\varnothing \geq 10$	MTB0606C19 1.25 ISO	6	6.0	3	19.4	58
1.5	M10	$\varnothing \geq 12$	MTB08078C17 1.5 ISO	8	7.8	3	17.3	64
1.5	M10	$\varnothing \geq 12$	MTB08078C24 1.5 ISO	8	7.8	3	24.8	76
1.5		$\varnothing \geq 14$	MTB1010D21 1.5 ISO	10	10.0	4	21.8	73
1.5		$\varnothing \geq 16$	MTB1212D26 1.5 ISO	12	12.0	4	26.3	84
1.5		$\varnothing \geq 20$	MTB1616F33 1.5 ISO	16	16.0	6	33.8	105
1.75	M12	$\varnothing \geq 12$	MTB1009C20 1.75 ISO	10	9.0	3	20.1	73
1.75	M12	$\varnothing \geq 12$	MTB1009C28 1.75 ISO	10	9.0	3	28.9	73
2.0	M14	$\varnothing \geq 15$	MTB1010C27 2.0 ISO	10	10.0	3	27.0	73
2.0	M16	$\varnothing \geq 17$	MTB12118D27 2.0 ISO	12	11.8	4	27.0	84
2.0	M16	$\varnothing \geq 17$	MTB12118D39 2.0 ISO	12	11.8	4	39.0	105
2.0		$\varnothing \geq 26$	MTB2020F41 2.0 ISO	20	20.0	6	41.0	105
2.5	M20	$\varnothing \geq 22$	MTB1615E33 2.5 ISO	16	15.0	5	33.8	105
2.5	M20	$\varnothing \geq 22$	MTB1615E48 2.5 ISO	16	15.0	5	48.8	105
3.0	M24	$\varnothing \geq 25$	MTB2018D40 3.0 ISO	20	18.0	4	40.5	105
3.0	M24	$\varnothing \geq 25$	MTB2018D58 3.0 ISO	20	18.0	4	58.5	120
3.0	M27	$\varnothing \geq 27$	MTB2020D43 3.0 ISO	20	20.0	4	43.5	105

Order example: MTB 08078C17 1.5 ISO MT7

For thread mills with coolant through the flutes see next page

For small thread mills see pages 105 & 113



Mill-Thread Solid Carbide Grades, Speed and Feed Selection

MT, MTB, MTZ, EMT types

MT7 Sub-Micron Grade with Titanium Aluminum Nitride multi-layer coating (ISO K10 - K20). This is a general purpose grade, which can be used with all materials; it should be run at medium to high cutting speeds.

ISO Standard	Material	Cutting Speed m/min	Feed mm/tooth										
			Ø2	Ø3	Ø4	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25
P	Low and Medium Carbon Steels <0.55%C	100-250	0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18
	High Carbon Steels ≥0.55%C	110-180	0.02	0.03	0.03	0.05	0.06	0.07	0.08	0.09	0.10	0.12	0.15
	Alloy Steels, Treated Steels	90-160	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.10
M	Stainless Steels - Free Cutting	60-160	0.02	0.03	0.03	0.04	0.05	0.06	0.06	0.07	0.08	0.09	0.11
	Stainless Steels - Austenitic	60-120	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.10
	Cast Steels	130-170	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.10
K	Cast Iron	70-150	0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18
N	Aluminium ≤10%Si, Copper	150-350	0.03	0.04	0.04	0.06	0.07	0.08	0.09	0.11	0.12	0.15	0.18
	Aluminium ≥10% Si	100-250	0.02	0.02	0.03	0.03	0.04	0.05	0.05	0.06	0.07	0.08	0.10
	Synthetics, Duroplastics, Thermoplastics	100-400	0.05	0.06	0.07	0.08	0.10	0.11	0.12	0.14	0.15	0.18	0.22
S	Nickel Alloys, Titanium Alloys	20- 80	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05

For cutters with long cutting length reduce feed rate by 40%