

Application values Through-hole screw tap Hyper Z (Art. no. 1014518 005-016)



Material groups for cutting values	Strength Class [N/mm ²]	Description regarding DIN	Vc [m/min]
1. Steels			
1.1 Free machining steel	< 900	9 S 20	5-20
1.2 Structural steel	<500	ST 37-2	5-20
1.3 Structural steel	> 500	ST 60-2	5-20
1.4 Heat-treated steel	<1000	42 CrMo 4	5-20
1.6 Case-hardened steel	<1200	16 MnCr 5	5-20
1.8 Heat-treated steel	>1000	43 CrMo 4	5-20
1.9 Nitriding steel	<1300	31 CrMoV 9	5-10
1.10 Tool steel	<1300	X 38 CrMoV 5 1	5-10
3. Non-ferrous metals			
3.1 Long-chipping aluminium	<500	Al99.9	10-25
3.2 Short-chipping aluminium	<500	G-AlSi12	10-25
3.3 Copper alloy bronze, long-chipping	<1200	CuSn4	6-20
3.4 Copper alloy bronze, short-chipping	<850	CuNi12Zn24	6-20
3.5 Copper alloy brass, long-chipping	<600	Cu Zn 20	6-20
3.7 Thermoplastic	<600	Cu Zn 39 Pb 3	6-20
	<100	PVC, Acrylglas	10-20
3.8 Duroplast	<150	Bakelit, Melamin	10-20
4. Cast metal			
4.2 Spheroidal graphite iron	<310 HB	GGG 40	5-20

