

## Thread Mills With Relieved Neck and Internal Coolant (MTQ)



MATERIAL GROUP	MATERIAL TO BE MACHINED	Cutting Speed m/min	Feed mm/tooth Cutting Diameter = D					
			Ø10	Ø12	Ø14	Ø16	Ø20	Ø25
<b>P</b>	Low and Medium Carbon Steels <0.55%C	100 - 250	0.06	0.07	0.07	0.08	0.10	0.12
	High Carbon Steels ≥0.55%C	110 - 180	0.05	0.05	0.06	0.07	0.09	0.10
	Alloy Steels, Treated Steels	90 - 160	0.03	0.04	0.04	0.05	0.06	0.07
<b>M</b>	Stainless Steels - Free Cutting	60 - 160	0.04	0.04	0.05	0.06	0.06	0.08
	Stainless Steels - Austenitic	60 - 120	0.04	0.04	0.04	0.05	0.06	0.07
	Cast Steels	130 - 170	0.03	0.04	0.04	0.05	0.06	0.07
<b>K</b>	Cast Iron	70 - 150	0.06	0.07	0.07	0.08	0.10	0.12
<b>N</b>	Aluminium ≤12%Si, Copper	150 - 350	0.06	0.07	0.07	0.08	0.10	0.12
	Alluminium > 12% Si	100 - 250	0.03	0.04	0.04	0.05	0.06	0.07
	Symthetics, Duroplastics, Thermoplastics	100 - 400	0.08	0.09	0.10	0.11	0.13	0.15
<b>S</b>	Nickel Alloys and Tianium Alloys	20 - 80	0.02	0.02	0.02	0.03	0.03	0.03

Key	
Vc	Cutting speed (m/min)
n	RPM (rev/min)
Fz	Feed rate (mm/tooth)
f	Feed rate (mm/rev)
HRc	Hardness of metal

All recommendations are based on ideal machining conditions. Adjustments may need to be made according to your set-up. The recommendations for speeds, feeds and other parameters presented in this chart are nominal recommendations and should be considered only as good starting points.