

Turning Insert Speeds Rates by Grade

ISO		P			M		K		N	S	H
MATERIAL		Non-alloy steel <25 HRC	Low alloy steel 25-35 HRC	High alloy steel, Tool steel 35-45 HRC	Ferritic / Martensitic Stainless steel	Austenitic Stainless steel	Grey Cast iron	Nodular Cast iron	Aluminium & Non-ferrous material	Heat Resistant and Super Alloys	Hardened steel <55 HRC
VDI GROUP		1-5	6-9	10-11	12-13	14	15-16	17-20	21-30	31-37	38-41
V _C (m/min)	ET101C	-	-	-	-	-	170 - 420	120 - 410	-	-	-
	ET31C	170 - 450	180 - 380	100 - 330	-	-	120 - 300	120 - 280	-	-	40 - 80
	ET315C	170 - 410	130 - 360	80 - 310	-	-	-	-	-	-	-
	ET32C	180 - 380	110 - 350	60 - 300	-	-	-	-	-	-	-
	ET33C	150 - 350	90 - 300	70 - 250	120 - 220	50 - 180	-	-	-	-	-
	ET801	120 - 200	70 - 230	70 - 180	70 - 180	-	60 - 160	60 - 120	-	-	40 - 80
	ET21P	135 - 405	120 - 350	95 - 280	130 - 230	100 - 200	-	-	-	30 - 90	-
	ET23P	-	-	-	110 - 180	40 - 130	-	-	-	20 - 40	-
	ET24P	-	-	-	80 - 150	30 - 120	-	-	-	20 - 40	-
	ET41P	-	-	-	95 - 290	90 - 210	-	-	-	35 - 90	-
	ET10D	-	-	-	-	-	-	-	350 - 1200	-	-
	ET10U	-	-	-	-	-	-	-	250 - 800	-	-