





## **INSERT GRADE GUIDE**



		Ν	NON-FERROUS				S	HRSA				н	HARDENED STEEL			
		C	)5	15	25	35	0	51	5 2	25 3	35	0	5 <sup>-</sup>	15	25	35
PVD	ET602								602						602	
	ET62P															
	ET20P			20P												
		HARDEF	R 🔶			TOUGHER	HARDER				TOUGHER	HARDER				TOUGHER

	P20 - P35 M20 - M30 K20 - K30 S15 - S25 H20 - H30	<b>ET602</b> Ultra dense PVD coating with optimal thermal resistance, suitable for most materials. PVD - TiAIN
FEPS R	P20 - P40 K20 - K40	ET62P Hard coating for tough applications with excellent wear and oxidisation resistance. PVD - AICrN
	N05 - N35	<b>ET20P</b> Optimised grade for aluminium with unique CrN based coating. PVD - CrN

## **INSERT EDGE PREPARATION GUIDE**

Р	М	Κ	Ν	S	Н	Edge Preparation Guide						
							Standard Edge Preparation	General machining, first choice				
							AL	Very sharp geometry for Aluminium				
							MS	Sharp geometry for Stainless Steel and HRSA				
							HC	Reinforced geometry for Hardened Steels				
							W/N	Flat insert for Hardened Material and Cast Iron				







## TERMINOLOGY

- n = Spindle speed in RPM
- v<sub>c</sub> = Cutting speed in m/min
- v<sub>f</sub> = Table feed rate in mm/min
- z<sub>n</sub> = Number of teeth/flutes
- a<sub>p</sub> = Axial depth of cut in mm
- a<sub>e</sub> = Radial depth of cut in mm
- $D_c$  = Cutter body diameter in mm
- $k_c$  = Specific cutting force in N/mm<sup>2</sup>
- $P_c$  = Power consumption in kW

## **USEFUL FORMULAE**

