High Temp Alloy - Technical Resources

Designed specifically to meet the most demanding metal finishing needs of high-tech industries

- Alloy-specific geometry optimized for Ni-Alloys and Ti-Alloys.
- Advanced cutting geometry increases productivity and tool life.
- Designed for high performance grinding with reduced downtime.
- For use on: high-temperature-resistant materials like nickel and titanium alloys.

Application

Steel	Hardened Steel	Stainless	Cast Iron	Titanium	Cermet	Nickel	Copper, Copper Alloys	Aluminum	Plastics GRP/CRP
				●		●			

● = Optimal
○ = Good

Recommended Operating Speeds

The operating speeds listed below serve as a guide for using tungsten carbide burs, based on bur head diameter.

Material groups	Application	Cutting speed	
		SFPM	m/min
Ni-Alloys & Ti-Alloys	Increased stock removal / Improved surface finish / Increased tool life / Controlled cutting action	984-2953	450-900

Cutting speed				
SFM		984	1640	2953
m/min		450	600	900
ø (in)	ø (mm)	Rotational speed (rpm)		
1/8	3	48,000	64,000	100,000
1/4	6	24,000	32,000	48,000
3/8	9.6	14,000	19,000	30,000
1/2	12	12,000	16,000	24,000

Recommended speeds are based on standard shank length burs up to 1 ¾", with maximum overhang of 3/8".
Max operating speed of 15,000 rpm for extended shanks (>1 ¾").