

## Powerful milling and leveling of surfaces and forms

KLINGSPOR carbide burrs are manufactured according to the highest quality standards and with utmost precision. The different cuts are adapted to meet the specific requirements of various materials and applications.

## Maximum operating speeds

Burr head in mm	Max. RPM
2 / 2,4 / 3	100,000
4 / 4,8 / 5 / 6 / 6,3	65,000
8 / 9,6 / 10 / 11	55,000
12 / 12,7	35,000
16	25,000
19,2	20,000
25,4	15,000

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Cut	Materials																									
	Steel							Soft NF metals				Hard NF metals				Creep-resistant materials		Cast iron		Plastics						
	Carbon steel	Tool steel	Non-alloyed steel	Case-hardened steel	Cast steel	Alloyed steel	Hardened steel	Aluminium	Brass	Copper	Zinc	Bronze	Titanium	Titanium alloy	Aluminium alloy (high SiC contingent)	Nickel based alloy	Cobalt based alloy	Grey cast iron	White cast iron	GRP	CFRP	Ebonite / Hard rubber	Thermoplastic material	Thermosets		
2	○	○	●	●	●	○	○	○	●	●	○	●	●	○	●	○	○	○	○	○	○	○	○	○	○	●
3	○	○	○	○	○	○	○	●	○	○	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
6	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

● = Main applications    ○ = Possible applications



### Important safety recommendations

- Please ensure that a maximum 30% of the tools circumference is in contact with the work piece
- Extra long burrs with extended shank require slower operating speeds
- Ensure the burr is clamped correctly in a regularly maintained operating tool
- Run the selected burr at the correct operating speed to avoid risks and to ensure an optimum tool performance
- Please observe the safety recommendations on the packaging

### The cuts at a glance

#### 2

Standard cut / plain cut with good finishing properties for universal applications



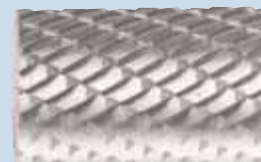
#### 3 Aluminium

High stock removal rate and reduced clogging of teeth for working on long-chipping and soft materials like NF metals and plastics



#### 6 Mega-Seller

Double cut for universal applications, improved handling and low vibration. Creates a small chip.



Additional cuts available on request!

### Recommended operating speeds

Burr head diameter in mm	Optimal speed range (RPM), depending on materials			
	NF metals	Aluminium, plastic	Unhardened steels	Hardened steels, stainless steel
2 / 2,4 / 3	45,000 (65,000)	60,000 (65,000)	60,000 (80,000)	60,000 (80,000)
	up to 80,000	up to 80,000	up to 80,000	up to 80,000
	22,000 (45,000)	15,000 (40,000)	45,000 (50,000)	30,000 (40,000)
4 / 4,8 / 5 / 6 / 6,3	up to 60,000	up to 60,000	up to 60,000	up to 45,000
	15,000 (30,000)	10,000 (25,000)	30,000 (30,000)	19,000 (25,000)
	up to 40,000	up to 50,000	up to 40,000	up to 30,000
8 / 9,6 / 10 / 11	11,000 (25,000)	7,000 (20,000)	22,000 (25,000)	15,000 (20,000)
	up to 30,000	up to 30,000	up to 30,000	up to 22,000
	9,000 (20,000)	6,000 (15,000)	18,000 (20,000)	12,000 (15,000)
16	up to 20,000	up to 20,000	up to 20,000	up to 18,000
	8,000 (12,000)	5,000 (10,000)	15,000 (15,000)	10,000 (10,000)
	up to 17,000	up to 17,000	up to 17,000	up to 15,000
19,2	6,000 (10,000)	4,000 (8,000)	10,000 (10,000)	7,000 (8,000)
	up to 13,000	up to 13,000	up to 13,000	up to 11,000

Carbide Burrs