GUHRING



Chamfering milling cutters with 60°, 90° or 120° point angle

Chamfering milling cutters with radial relief geometry for chamfering, de-burring and contour operations

Advantages:

especially smooth cutting operation with low wear



up to five re-grinds possible



universal application in most materials



long tool life thanks to wear-resistant TiAIN-coating and ultra-tough carbide

Chamfering milling cutters

60°

6711

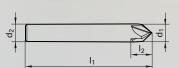
90°

1209

6715

Guhring no.

Guhring std., straight fluted HA and HB shank to DIN 6535 VHM ultra fine TiAIN-coated helix angle 0°

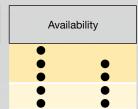


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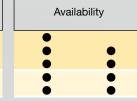




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d1 (js9)	d2 (h6)	l1	12	Z
mm	mm	mm	mm	
4.000	4.000	50.00	22.00	4
6.000	6.000	57.00	21.00	4
8.000	8.000	63.00	27.00	4
10.000	10.000	72.00	32.00	4
12.000	12.000	83.00	38.00	4



Availability			
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Cutting rates

	torial/ICO material	I I	Cutting speed*	fz (mm/min)				
Material/ISO material		Hardness	(V _C)	4	6	8	10	12
P	Structural/free-cutting steels, unalloyed heat-treat./case hard. steels	up to 850 N/mm²	130	0.013	0.025	0.032	0.042	0.049
	Free-cutting steels, unalloyed case hardened steels, nitriding steels	850 - 1200 N/mm²	120	0.013	0.025	0.032	0.042	0.049
	Alloyed heat-treatable, tool and high speed steels	850 - 1400 N/mm²	90	0.011	0.021	0.028	0.039	0.046
М	Stainless steel - easy to machine	up to 750 N/mm²	80	0.009	0.018	0.024	0.030	0.036
	Stainless steel - moderately difficult	up to 750 N/mm ²	60	0.009	0.015	0.021	0.027	0.030
	Stainless steel - difficult to machine	über 750 N/mm²	50	0.007	0.015	0.018	0.024	0.027
ĸ	Cast iron, grey cast iron, spheroidal graphite and malleable cast iron	up to 240 HB 30	120	0.012	0.024	0.030	0.039	0.048
\ \	Grey cast iron, spheroidal graphite and malleable cast iron	above 240 HB 30	100	0.010	0.018	0.024	0.033	0.039
N	Aluminium, Al-wrought alloys, Al-alloys	up to 3% Si	300	0.014	0.028	0.035	0.046	0.056
	Aluminium-cast alloys	above 3% Si	150	0.011	0.021	0.028	0.039	0.046



* Calculate cutting speed based on the major cutting edge diameter!

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Guhring KG

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