ROUGH-TECH 48 GS 100 U roughing cutters for materials < 48 HRC

GS 100 roughing cutters offer extensive general purpose application possibilities. Thes roughers have a unique round knuckle-type tooth profile which requires less HP than traditional flat knuckle-type end mills.

The unique geometry also has a staggered pitch angle (see illustration), spreading the feed engagement across the full length of the cutting edge and allowing for a high rate of metal removal.

GS 100 U: special geometry for materials < 48 HRC

• The 4-flute GS 100 U with its 30° RH spiral and fine knuckle-type teeth is suitable for the machining of all general steels up to 48 HRC, high-alloyed steels as well as titanium or chrome nickel alloys.

GS 100 H: special geometry for materials < 56 HRC

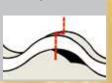
The GS 100 F 5- and 6-flute end mill has a 45° right hand spiral with the NF style knuckle design suitable for machining high tensile steels up to 56 HRC hardness.

Advantages at a glance:

- reduced power requirement and cutting pressure
- suitable for less powerful and less stable machines
- suitable for less favorable workpiece and tool clamping conditions
- high metal removal rate thanks to the utilization of the complete cutting edge length

Guhring milling cutters with radial coolant exits at 64° (series #3365) provide particular protection to the sensitive corners. The specifically aimed coolant exits completely prevent built-up edges and ensure complete chip evacuation, especially with deep pockets and channels.





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Material	Alloyed Steel	Tool Steel	Cast iron		Stainless steel		Aluminium		Ti-special alloys		Н	
Hardness tensile strength	up to 28HRc	over 28 HRc	up to 180 HB 30	over 180 HB 30	up to 28 HRc	over 28 HRc	up to 3% Si	over 3% Si	Ti-based	Ni-based	up to 52 HRC	over 52 HRC
Aero-Tech	0	•	0	•	0	•	0	•	0	0	0	
Alumi-Tech	0						•	•				
Rough-Tech ALU	0						•	•				
Aero-Rough 48	•	•	•	0	•	0	0	0	0	0		
Aero-Rough 56	0	•	•	•	0	0			•	0	•	0
Rough-Tech 48	•	•	•	0	•	0	0	0	0	0		
Rough-Tech 56	0	•	•	•					0	•	•	0
Finish-Tech 50	0	•	•	•	•	•	0	•	•	•	•	
Finish-Tech 62			0	•						0	•	•
GF 500	0	•	•	•	0	0			•	•	•	
GF 300		0	0	•					0	0	•	•
Uni-Pro (all)	•	0	•	0	0	•	•	0	0	•		

= optimal suitability

= limited suitability