

RF 100 S/F - high-performance semi-roughing end mills for materials up to 1600 N/mm² (48 HRC)

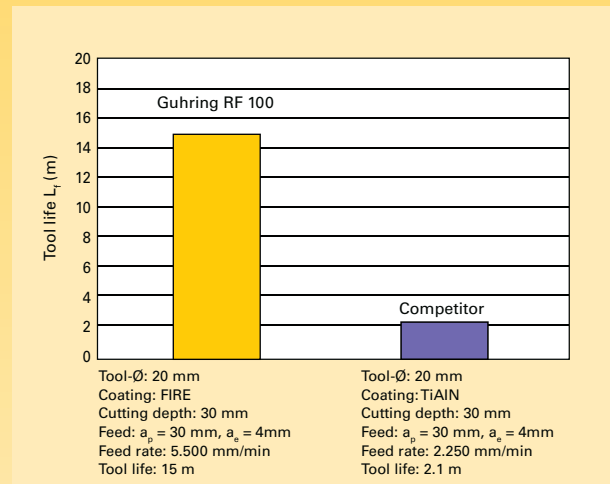
Based on our 4-fluted RF 100 U the RF 100 S/F has a higher, more rigid web paired with 5 cutting edges. In addition, its innovative flute geometry ensures optimal chip evacuation.

The range of application includes super finishing and HSC finishing as well as semi-roughing operations (HPC-machining), i.e. feed widths (a_e) up to 0.5xD with close to complete cutting length.



Summary of advantages

- suitable for semi-roughing (HPC) and HSC-finishing
- extremely high form accuracy
- vibration-free operation
- optimized flute geometry
- high feed rates possible
- optimal surface quality
- increased tool life



Tool life comparison:
Semi-roughing in 48 HRC the RF 100 S/F achieves more than 7 times the tool life in comparison to conventional end mills.

Material	Alloyed Steel		Tool Steel		Cast iron		Stainless steel		Aluminium		Ti-special alloys		H	
	up to 28Hrc	over 28Hrc	up to 180 HB 30	over 180 HB 30	up to 28Hrc	over 28Hrc	up to 3% Si	over 3% Si	Ti-based	Ni-based	up to 52 HRC	above 52 HRC		
RF 100 U	○	●	●	●							●		○	
RF 100 U/HF	○	●	●	●							○		○	
RF 100 F	●	○	○		○	●		○	○	●				
RF 100 VA	●	○	○	○	●	●		○	●	○				
RF 100 VA/NF	●	○	○	○	●	●			●	○				
RF 100 A								●	●					
RF 100 A/WF								●	●					
RF 100 Ti	○	●	○	○							●	○	○	
RF 100 H		○		○									●	●
RF 100 SF	●	●	●	●	●	●	○	○	●	●	○			

● = optimal suitability

○ = limited suitability