

# RF 100 U - high-performance end mills for materials up to 1600 N/mm<sup>2</sup> (48 HRC)

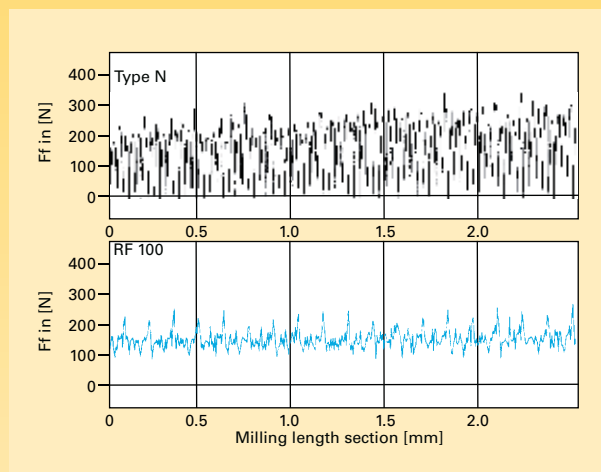


RF 100 U high-performance end mills excel thanks to variable helix angles which considerably reduce vibration. The uneven helix angle vastly improves surface quality with finishing operations and considerably higher feed rates with slot drilling and roughing operations are also achieved.

With many applications, the complete milling process can be covered with one RF 100, which as well as increasing tool life and dimensional accuracy of the workpiece, generates a considerable cost advantage.

### Summary of advantages

- suitable for roughing and finishing
- up to 60% higher feed rates
- up to 4-times longer tool life
- vibration-free operation
- improved workpiece surface quality



The cutting force comparison between a conventional milling cutter type N and a RF100 clearly shows the quieter, more rigid operation of the RF100.

with neck clearance

35°

38°

with micro-corner protection for longer tool life

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