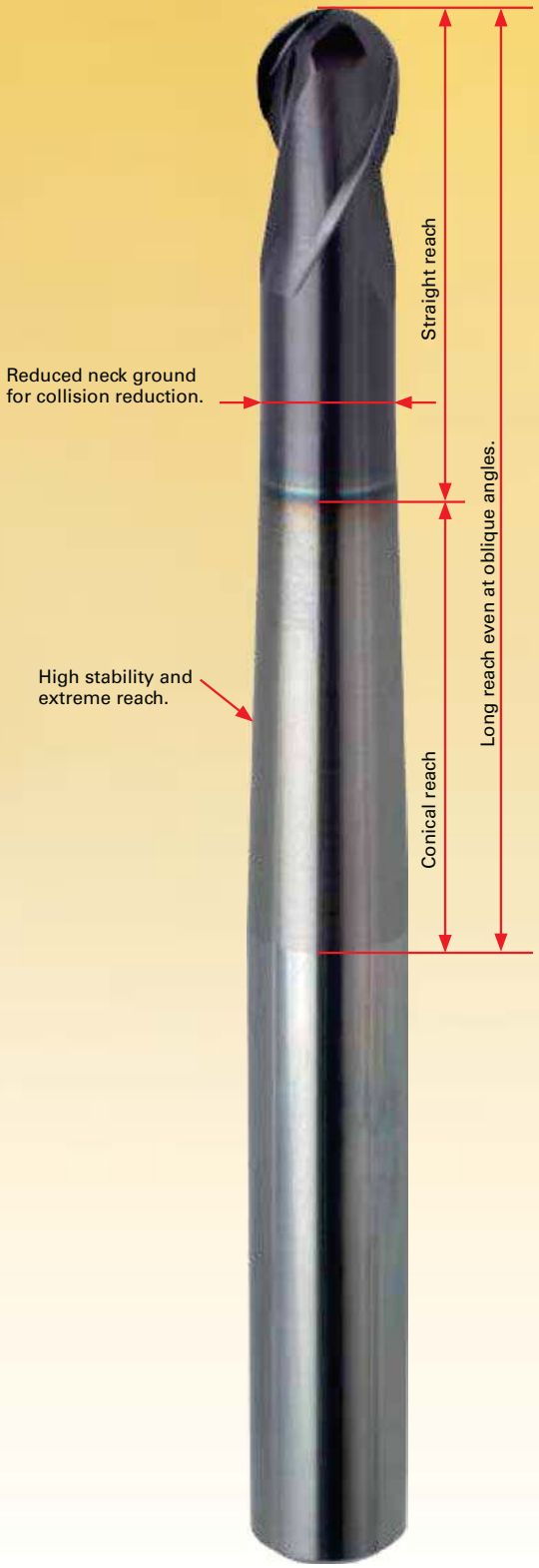
GF 500 HSC Trace Milling Cutters with ball nose or Torus form -

GF 500 HSC (High Speed Cutting) trace milling cutters are suitable for all roughing, finishing as well as fine finishing operations under HSC conditions in the mould and die industry. The range of application includes all general steels as well as high-alloyed steels but also hardened materials from 40 to 54 HRC.



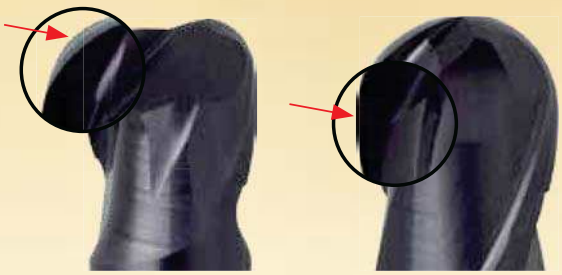
The new web thinning form provides optimal chip evacuation as well as stability. In addition, the extremely close tolerances on radius and diameter ensure a very high contour accuracy on the workpiece, improving tool life considerably. A completely new grinding process produces considerably smoother cutting edges and flutes and also results in a clear increase in tool life. GF 500 B HSC ball nose trace milling cutters and GF 500 T HSC-trace milling cutters with Torus form are both available with different lengths. The combination of the new geometries with reinforced shanks as well as reduced neck diameters allows extremely high feed rates and also provides high rigidity and optimal collision protection even for increased cutting depths.

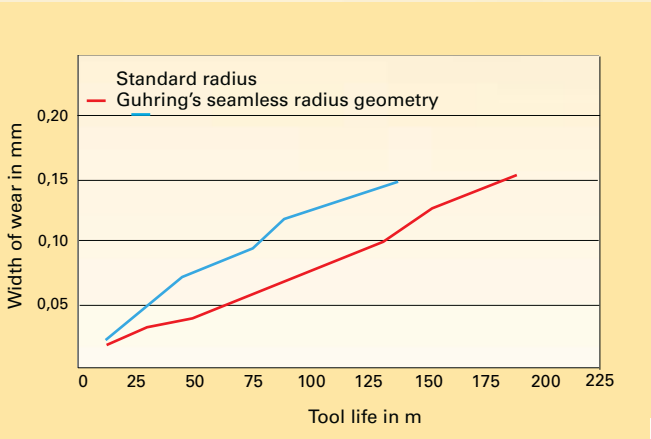
Advantages at a glance:

- accurate tolerances on diameter
- close radius tolerances
- radius grind with constant helix correction
- straight and radius areas ground in one pass
- grinding process for highest Surface finish finishes

Optimal wear protection thanks to radius grind with constant rake angle and continuous helix.

Seamless radius area provides high form and contour accuracy.





Pic. 1: Wear comparison
Guhring's seamless radius geometry reduces wear and provides a considerably longer tool life in comparison with tools ground with conventional full radius.