

# EXCLUSIVE<sup>LINE</sup><sup>®</sup>

## Special solution HR 500 G carbide- or cermet-tipped high-performance reamers - technology and advantages

On the strength of the excellent results that solid carbide high-performance reamers HR 500 achieve in the diameter range up to 20 mm, Guhring has carried over this successful concept to the new HR 500 G high-performance reamers for diameters above 20.00 mm. HR 500 G brazed carbide- or cermet-tipped high-performance reamers offer particularly economical advantages for these large diameters in comparison with solid carbide high-performance reamers with comparable performance figures. In comparison with conventional interchangeable head systems the brazed HR 500 G high-performance reamers are convincing thanks to the following advantages:

- considerably higher rigidity thanks to monoblock-design.
- additional errors in concentricity through additional interface are avoided.
- no restriction of coolant delivery by avoiding an additional interface
- installation errors are impossible.
- very simple handling.
- higher rigidity against torsional and radial forces.
- reduced tendency to chattering.
- long tool life thanks to single interface installation

In order to offer the optimal tool material tip for every application range, tipped HR 500 G high-performance reamers are available with carbide inserts and TiAlN-coating for the machining of cast iron and special steels or with cermet inserts for the machining of steels and GGG materials. Detailed information regarding optimal application can be found in the GuhringNavigator for these tools.

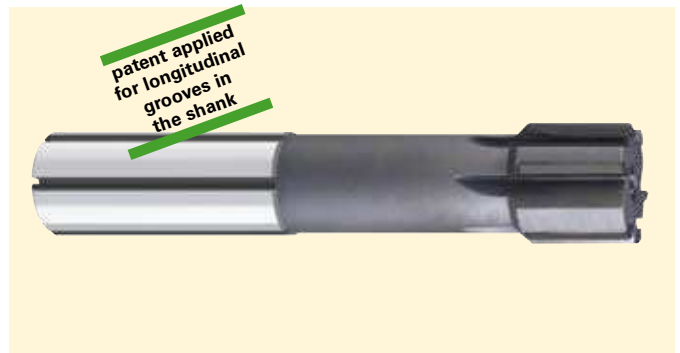
The geometry of tipped HR 500 high-performance reamers corresponds to those in solid carbide. Therefore, there is a choice of four different tipped designs:

- cermet or carbide-tipped HR 500 GS for the machining of blind holes.
- cermet or carbide-tipped HR 500 GD for the machining of through holes.

**NEW:**  
Now standard range



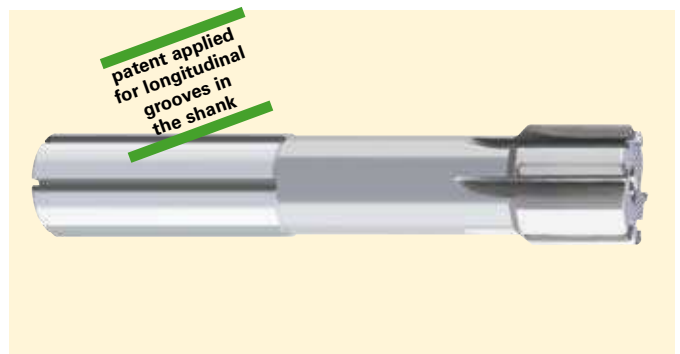
Carbide-tipped HR 500 GSTiAlN-coated high-performance reamers for the machining of blind holes, Guhring no. 1680



Carbide-tipped HR 500 GDTiAlN-coated high-performance reamers for the machining of through holes, Guhring no. 1681



Cermet-tipped high-performance reamers HR 500 GS the machining of blind holes, Guhring no. 1682



Cermet-tipped high-performance reamers HR 500 GD the machining of through holes, Guhring no. 1683