

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

## HR 500 ACTIVE

### Special range of HR 500 solid carbide high-performance reamers

Ever since their introduction, Guhring's solid carbide high-performance reamers HR 500 D for through holes and HR 500 S for blind holes have impressed customers with their outstanding performance. Even under difficult machining conditions such as interrupted cutting or unstable machines they ream holes at cutting rates higher than cermet levels with maximum tool life and optimal quality in almost all materials.

So the user can also fully utilise

the advantages of HR 500 high-performance reamers for the machining of the special applications Guhring has developed the HR 500 ACTIVE range:

#### Special tools based on HR 500 technology for cylindrical and stepped holes

There is a choice of four HR 500 ACTIVE types:

- for cylindrical blind holes
- for cylindrical through holes
- for stepped blind holes
- for stepped through holes

The four HR 500 ACTIVE types are

available in the following designs:

- with or without internal cooling
- short or long version
- with TiAlN coating or bright finish
- to hole tolerance or reamer manufacturing tolerance

You have the choice of designing the optimal HR 500 reamer for your specific application! Simply complete the questionnaire and send or fax it to the address or fax number respectively.

#### Your ACTIVE advantages:

**Quotation within 72hrs!**

**Tool dispatch maximum 4 weeks!**

- + perfect adaptation of tool material, geometry and coating to workpiece material and hole
- + with internal cooling: central coolant duct for blind holes, longitudinal grooves in shank for through holes
- + nominal diameter from 2.95 up to 20.1 mm
- + shank to DIN 6535 HA
- + tolerances to requirements for the perfect finish
- + available in long or short version
- + highest quality
- + best cost-performance ratio
- + delivery time: maximum 3 weeks for TiAlN-coated tools and maximum 2 weeks for bright finish tools

#### Perfect finish thanks to closest tolerances!

It's your choice! We produce perfect quality for you in the shortest time possible:

- + we produce your required hole tolerance to DIN 1420.
- + reamers with manufacturing tolerances according to your requirements!

The minimum manufacturing tolerance is 0.005 mm, applies to both diameters with step reamers!

#### General conditions for HR 500 ACTIVE step reamers

With HR 500 ACTIVE step reamers please note the following pre-requisites:

- + the minimum step differential is 0.2 mm.
- + the countersink angle W1 can be chosen between 40° and 180° (± 1°).
- With 180° countersink angle the outer cutting edge has a corner chamfer 0.1+0.1x45°.

Optimal clamping holders from our current GM 300 range:

- + hydraulic chucks
- + shrink fit chucks

