GUHRING









- economical drilling of aluminium materials
- entire material range from soft, tough aluminium wrought alloys to aluminium cast alloys
- special drills for Ø 3 to 20 mm and depths up to 12xD
 - wet machining and MQL possible

RT 100 AL

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Guhring's new solid carbide drill

for the machining of aluminium materials

For aluminium drilling chip formation with chip evacuation are both of vital importance.

With RT 100 AL optimal chip formation is achieved at the cutting edge in the entire material range – from tough aluminium wrought alloys to aluminium cast alloys with high silicon content.

open point geometry and cutting edge form:

optimal chip formation behaviour

extremely high surface finish quality of web thinning, front face and clearance rake areas

- reduction in process temperatures
- prevents formation of built-up edges

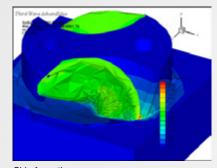
flute geometry

- polished flutes for optimal chip evacuation
- minimising friction
- prevention of material adhesion

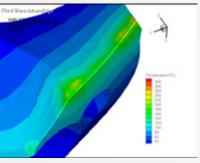
sharp, micro-treated cutting edges

- perfect cutting behaviour, also in heat-treated AlSi-alloys
- short chip fracture also in aluminium wrought alloys

RT 100 AL distinguishes itself thanks to an ideal geometry with high surface finish qualities in the web thinning, front face and clearance rake areas. Micro-treated cutting edges and corners complement the point geometry and ensure perfect cutting behaviour, low process temperatures prevent the formation of built-up edges when machining aluminium.



Chip formation



Temperature distribution at cutting edge

The tools are designed with a bright finish, for heavily abrasive aluminium materials an additional head coating for further tool life improvement is possible.

Special dimensions as well as single- or multi-step tools are available on request.