

GUHRING

NEW
simple, quick and
highly accurate setting of
6-fluted tools



Module 6x6

6-fold radial and axial setting of 6-fluted tools

- quick and simple setting
- perfect concentricity with minimum run-out
- cooling lubrication delivery without loss or turbulence
- suitable for MQL and conventional cooling lubrication

Module 6x6

Perfect setting of 6 cutting edges

The setting of 6-fluted tools is now performed quickly, simply and accurately with Guhring's Module 6x6. With the innovative module the screws for the radial and axial setting sit perfectly below the cutting edges of the tool allowing the correction of concentricity errors at the position they are detected.

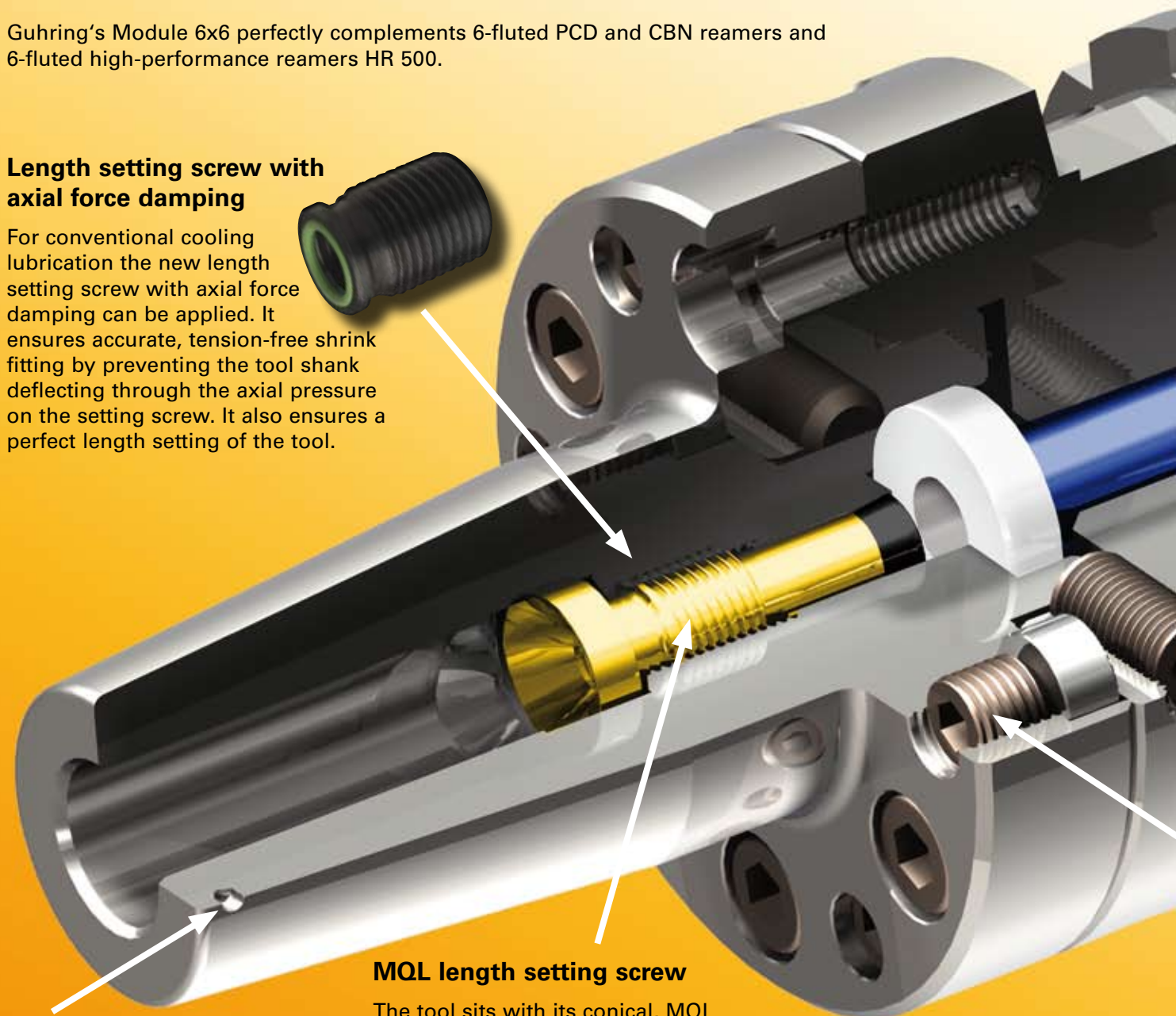
The advantages for the user:

- up to 70% time saving in tool pre-setting
- cost reduction
- highly accurate tool setting

Guhring's Module 6x6 perfectly complements 6-fluted PCD and CBN reamers and 6-fluted high-performance reamers HR 500.

Length setting screw with axial force damping

For conventional cooling lubrication the new length setting screw with axial force damping can be applied. It ensures accurate, tension-free shrink fitting by preventing the tool shank deflecting through the axial pressure on the setting screw. It also ensures a perfect length setting of the tool.



Positioning mark for the first cutting edge

MQL length setting screw

The tool sits with its conical, MQL suitable shank end in the corresponding head shape of the MQL length setting screw. A sealing lip ensures a loss-free cooling lubricant delivery to the tool.

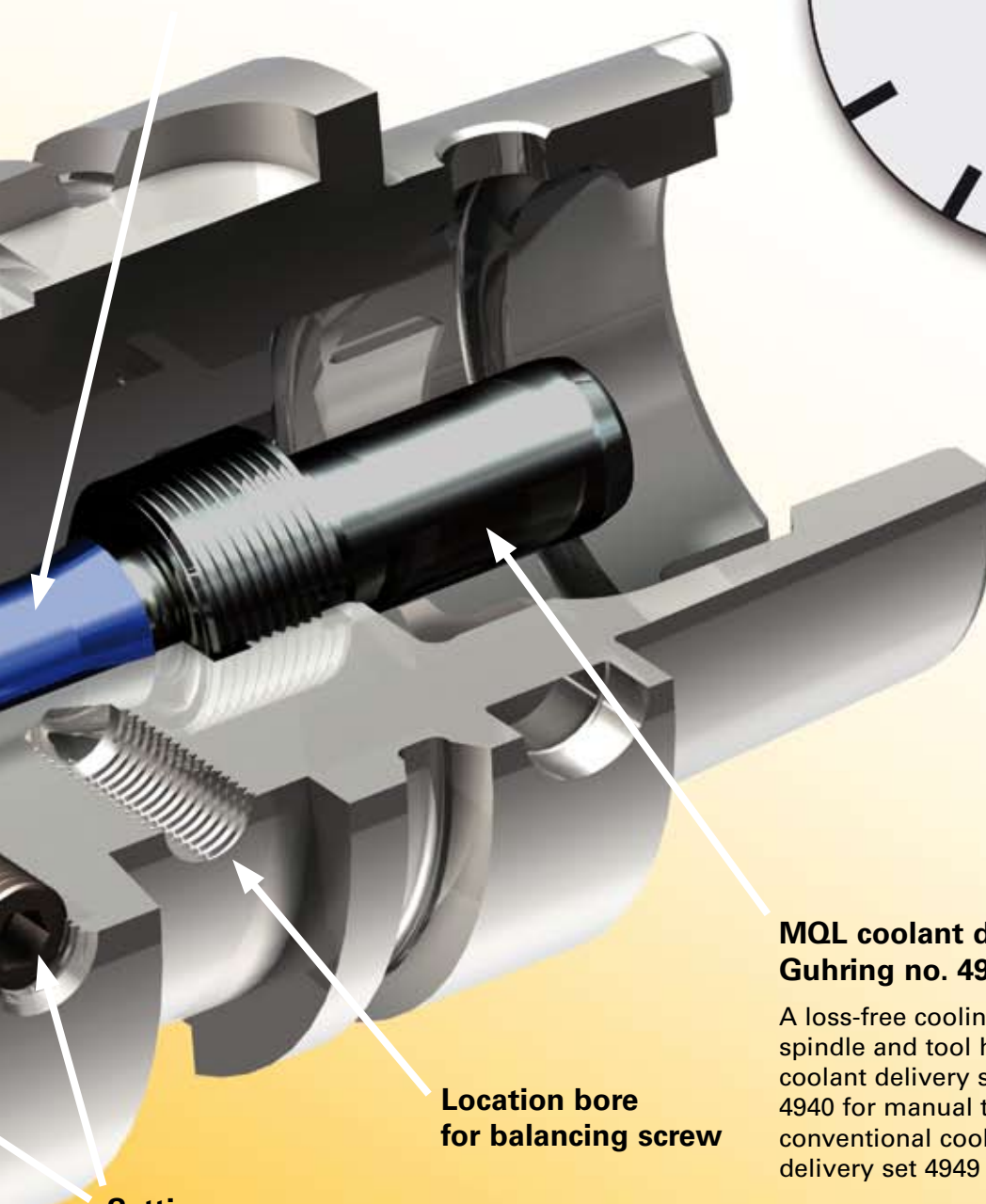
Delivery unit

The delivery unit feeds the cooling lubricant through the tool holder without dead areas. Particularly with MQL machining, a loss-free coolant delivery in this area is decisive for an optimal delivery to the cutting edges.



Time- and cost-saving

Guhring's Module 6x6 reduces the setting time for 6-fluted tools by up to 70%!



Location bore for balancing screw

Setting screws

Each of the 6 screws for the axial and radial setting of the Module 6x6 are perfectly positioned to the cutting edges of the clamped tool. They enable a quick, simple and highly accurate concentricity adjustment. Setting to $2\mu\text{m}$ can be achieved with a time saving of up to 70%.

MQL coolant delivery set, Guhring no. 4939 or 4940

A loss-free cooling lubricant delivery between spindle and tool holder is provided by MQL coolant delivery sets 4939 for automatic and 4940 for manual tool change. Alternatively, for conventional cooling lubrication the coolant delivery set 4949 is applied.

100 percent compatible

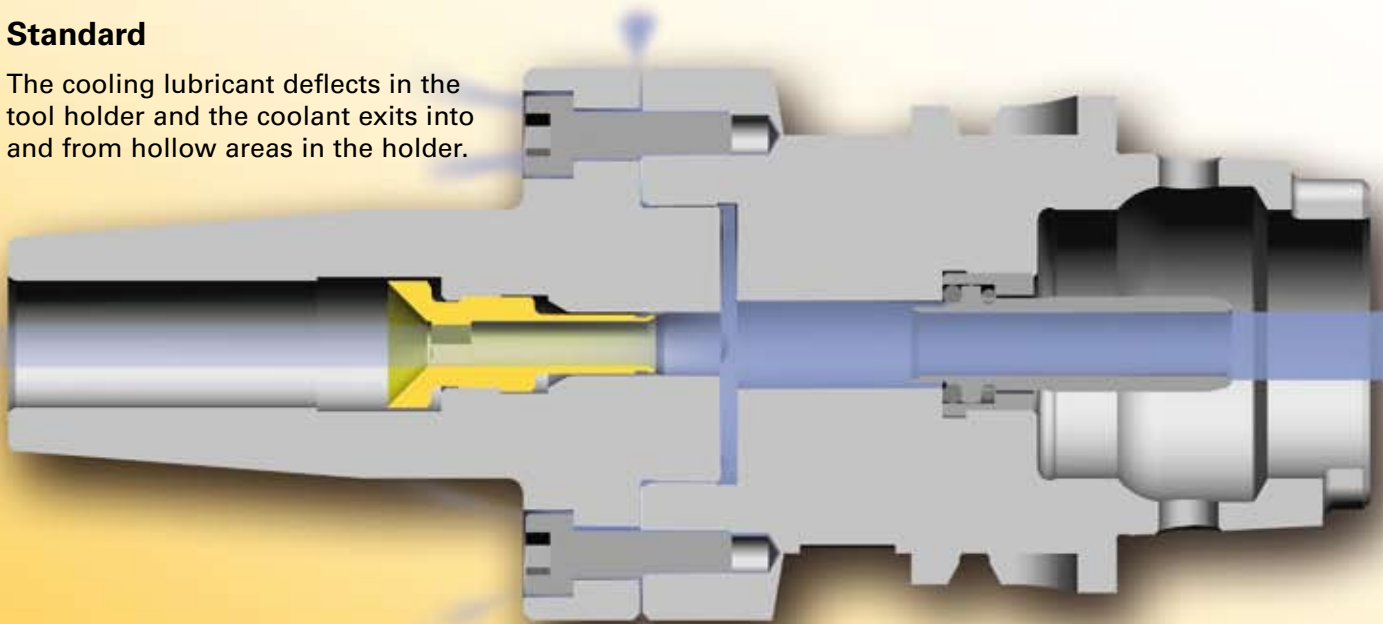
Guhring's coolant delivery system can be applied without limitations for conventional cooling as well as minimal quantity lubrication!

Module 6x6 Loss-free cooling lubricant delivery

The benefits of Guhring's Module 6x6 are not only the quick, simple and highly-accurate tool setting. But the optimal cooling lubricant delivery without restriction or turbulence ensures a perfect machining result thanks to loss-free cooling and lubrication of the tool's cutting edges.

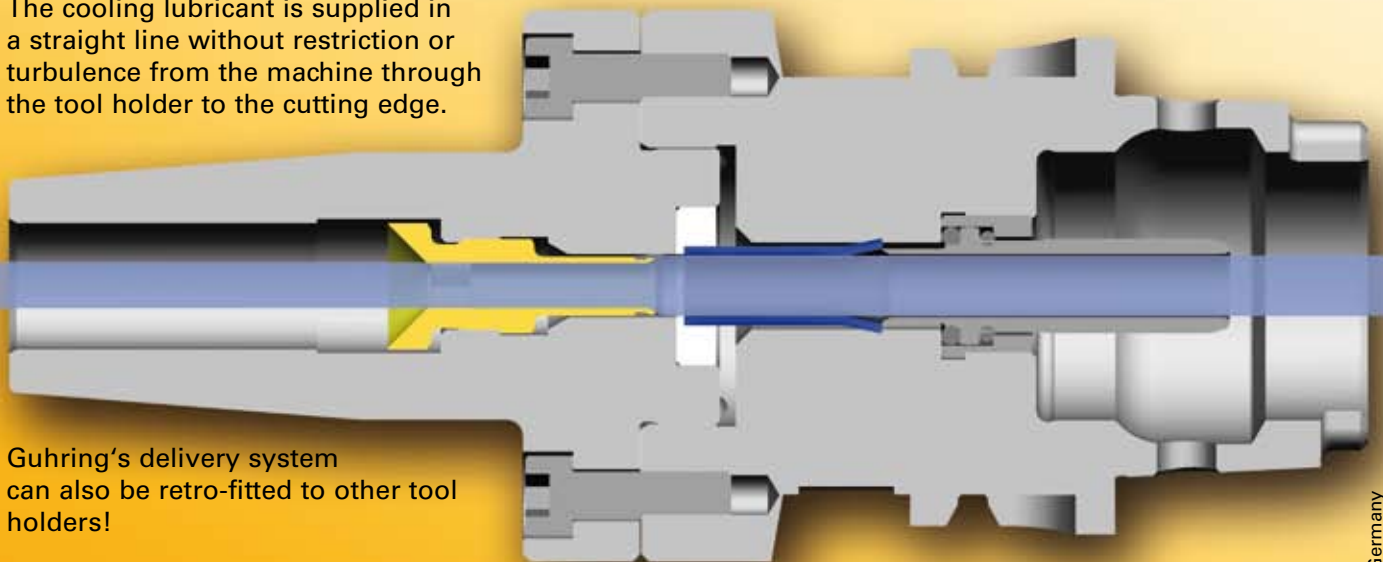
Standard

The cooling lubricant deflects in the tool holder and the coolant exits into and from hollow areas in the holder.



Guhring's delivery system

The cooling lubricant is supplied in a straight line without restriction or turbulence from the machine through the tool holder to the cutting edge.



Guhring's delivery system can also be retro-fitted to other tool holders!

Guhring oHG

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