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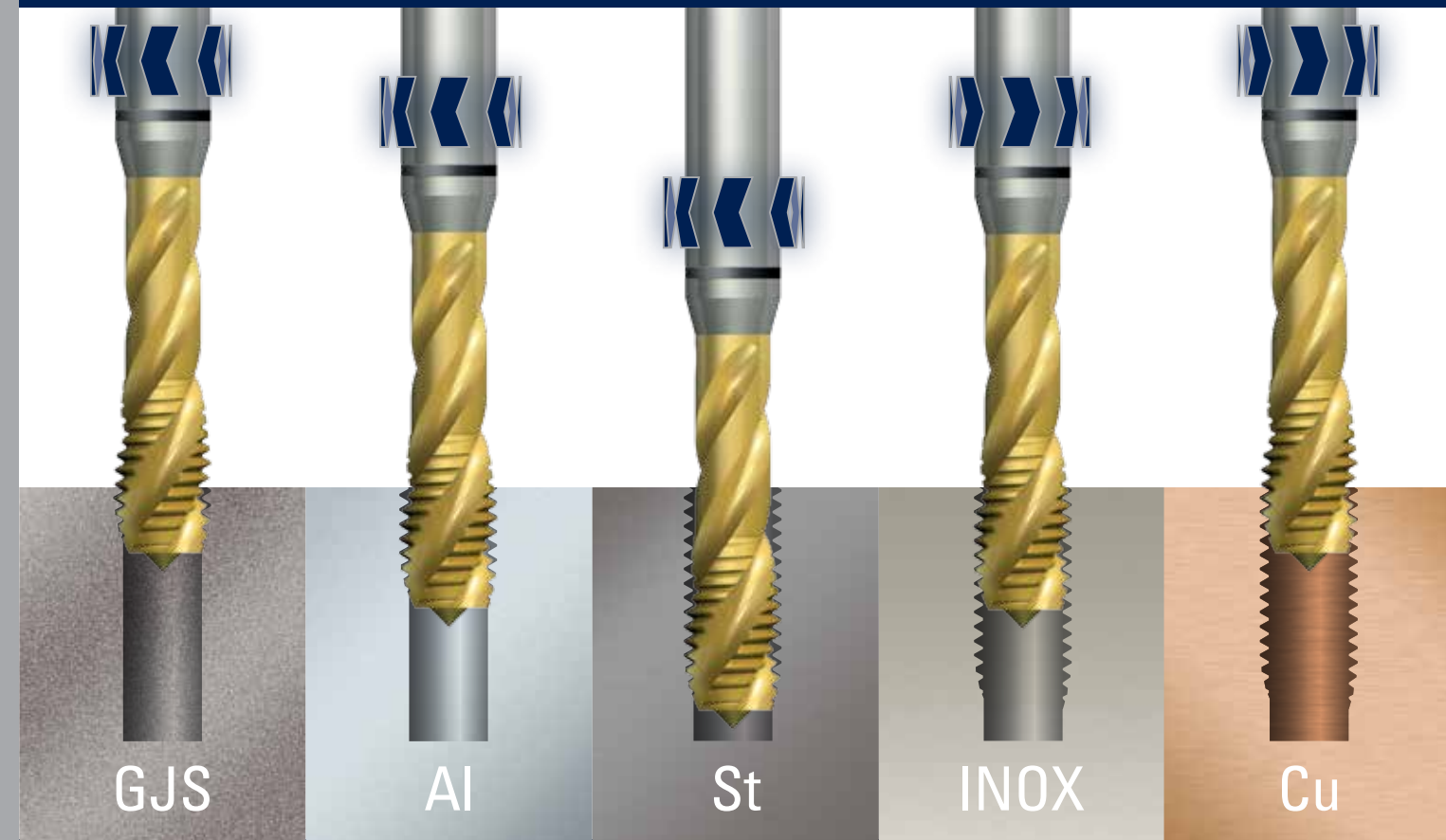
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Developed by ToolDesign



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Your Solution to any Workpiece Material



Development Objective and Test Period

1 Analysis of target workpiece materials

Based on an analysis of the most popular materials machined by professional end users, SCHUMACHER's R+D team has defined a requirement profile for a new type of Universal Purpose geometry. Our objectives included higher flexibility during operation, improved tool life in a pre-defined range of workpiece materials and a reduction of cost per thread for the end-user.

2 Development of geometry / ToolDesign

Using the SCHUMACHER R+D modules ToolDesign and ToolSimulation, our engineers have developed a completely new threading geometry for the most popular material groups over a two-year period. Any critical geometry parameters have been revised and optimized.

3 Long-term testing of tool life

The new geometry variants have been tested in several stages of development against the universal taps of other leading producers. This comprehensive project allowed us to develop two of the most powerful universal tools for the premium segment.



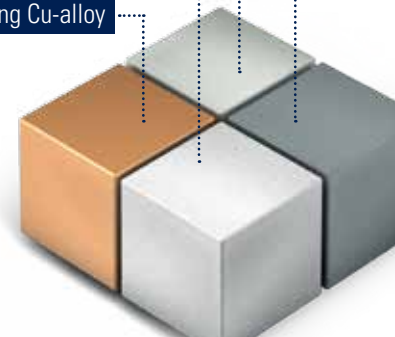
Target materials:

General construction steel

Stainless steel

Spheroidal graphite iron

Long shipping Cu-alloy



Technology

Tool characteristics:

- Technical modification: optimized ratio between flute and width of land for universal applications / adapted conicity of thread part
- Completely renewed thread geometry (combination of flute geometry, cutting angle and relief angle)
- Improved surface technology – adaptation of vaporization technology
- New edge preparation system adjusted to optimized cutting performance of requested material

Product types:

For through hole, chamfer form B:

- Vaporized version – item 319 / 26
- TiN-coated version – item 319 / 25

For blind hole, chamfer form C:

- Vaporized version – item 333 / 26
- TiN-coated version – item 333 / 25

Service + Support:

SCHUMACHER Service-Hotline: +49-21 91 97 04-0 | info@schumachertool.de

