

Press release

GARANT MasterSteel opens up a new performance class for solid carbide drills

The new solid carbide drills from the Hoffmann Group generate up to 50% more feed and maximise the cutting speed

Munich, 5 June 2016 – The **Hoffmann Group**, Europe's leading system partner for quality tools, has expanded its GARANT MasterSteel product range with two new solid carbide drills, thereby further extending its lead over the competition when it comes to machining technology. In the summer of 2015, the Hoffmann Group opened up a new performance class for solid carbide milling cutters with its GARANT MasterSteel HPC milling cutter. With the GARANT MasterSteel FEED and SPEED, this distinction has now been extended to include solid carbide drills as well. Featuring three cutters, the new GARANT MasterSteel FEED generates up to 50 percent more feed per rotation and offers a particularly long tool life, whereas the new GARANT MasterSteel SPEED comes with two cutters and offers extremely high cutting speeds. As such, the Hoffmann Group can offer the perfect tool for any application. The two new high-performance drills can be ordered now from the Hoffmann Group e-shop at www.hoffmann-group.com and from the new 2016/2017 catalogue.

GARANT MasterSteel FEED and SPEED have been optimised to suit a range of production environments. The 3-cutter GARANT MasterSteel FEED reaches its maximum performance on machining centres with a high spindle output and high torque, whereas the GARANT MasterSteel SPEED has been designed for tooling machinery with a low spindle output but a high speed as well as for thin-walled components. This means the Hoffmann Group can offer its customers the exact tool they require to suit the design of the drive unit, fixing, component and application.

MasterSteel FEED: maximum feed with three cutters

With its new GARANT MasterSteel FEED, the Hoffmann Group has focussed on three cutters with a special form, robust cutting edges and a large clearance in the centre. The point geometry (for which a patent is pending) reduces the cutting pressure and its 145-degree point angle ensures an optimised chip flow and controlled chip breaking. In contrast to conventional 3-cutter tools, the GARANT MasterSteel FEED is therefore also suitable for machining long-chipping materials, despite the comparatively small flutes. The tool also boasts outstanding self-centring because the self-centring forces act on three cutters instead of just two. Spot drilling can therefore easily be carried out, even on critical and uneven surfaces. In order to ensure uniform, controlled wear and a long tool life, the Hoffmann Group has improved the flexural strength and toughness of the solid carbide substrate used. A multi-layer PVD coating has also been applied.

MasterSteel SPEED: maximised cutting speed when drilling

The GARANT MasterSteel SPEED solid carbide drill has been designed for extreme cutting speeds and extremely high process temperatures. Thanks to a newly developed solid carbide substrate made from ultra-micro-grain together with a newly developed coating, the tool offers impressive durability even under extreme conditions. Due to its low thermal conductivity, the coating acts like a heat shield in order to prevent the carbide substrate from weakening. It remains extremely hard, even under very high temperatures, in contrast to other coatings which are weakened significantly. As a result, the MasterSteel SPEED can offer the longest tool life. Its slim chisel edge optimises the self-centring of the drill as the material is cut to almost the very centre rather than being merely displaced as is often the case. The Hoffmann Group has also pulled the guide chamfers forwards to be able to create optimal cylindrical bores. As a result, the second guide chamfer assists the drill at an early stage. The special major cutting edge reduces the cutting forces and guarantees exceptional drilling, even at high cutting speeds, meaning the MasterSteel SPEED can offer an unparalleled metal removal rate together with a long service life.

The GARANT MasterSteel FEED is available for diameters of 4 to 20 millimetres. The GARANT MasterSteel SPEED is available for the range from 2 to 20 millimetres.

Whether users are looking for high cutting speeds or high feed values – with both tools from the Hoffmann Group, they are sure to benefit from the new performance level which has been opened up by the new solid carbide drills from the GARANT MasterSteel range.

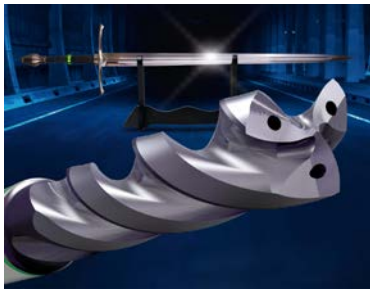


Photo caption: Featuring three cutters, the new GARANT MasterSteel FEED solid carbide drill generates up to 50 percent more feed per rotation.



Photo caption: The new GARANT MasterSteel SPEED high-performance drill is setting new standards for the cutting speed when processing steel.



Photo caption: On the GARANT MasterSteel FEED solid carbide drill, the self-centring forces act on three cutters instead of just two.

The Hoffmann Group

The Hoffmann Group, as Europe's leading system partner for quality tools, combines trading competence with both manufacturing and service competence. This combination guarantees reliability in supply, quality and productivity in the tooling sector to more than 135,000 customers, together with workstations and storage and optimum advice – from individual needs analysis through to efficient use of products. Alongside tools for machining, clamping, measuring, grinding and cutting, the portfolio also comprises hand tools, occupational safety, workstations and storage and workshop accessories. Customers include major listed companies as well as medium-sized and small companies in more than 50 countries. In 2015, the Hoffmann Group generated a worldwide turnover of more than 1.1 billion euros. Including GARANT, its own premium brand, the Hoffmann Group offers 70,000 quality tools from the world's leading manufacturers. With comprehensive customer service and 99 percent delivery quality certified by the TÜV, the tooling expert with their head office in Munich is a reliable and efficient partner for its customers.

See www.hoffmann-group.com for further information

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