

Press release

Three problem-solvers for difficult turning tasks

New GARANT Master tools which dampen vibration, reduce process heat and reliably evacuate chips from small bores

Stuttgart/Munich, 13 September 2022 – At AMB 2022 the [Hoffmann Group](#) presents three new problem-solvers in the GARANT Master tool family. These tools have applications in various turning tasks. The GARANT Master Mute vibration-damping boring bar adjusts its damping behaviour in real time and can machine precision deep bores in hard-to-access components. Where there are large amounts of heat input and process heat, the GARANT Master Eco screw-on toolholder performs comprehensive and targeted cooling at the critical points. Especially in small boring diameters the GARANT Master Turn boring bar prevents chip jams within the workpiece. Thanks to the higher cutting parameters, all the GARANT Master turning tools achieve high surface quality and deliver gains in productivity. The new tools can be ordered now at the [eShop](#) and also via the Hoffmann Group's new products catalogue 2022/2023.

The GARANT Master Mute, GARANT Master Eco and GARANT Master Turn allow problems of especially difficult machining tasks on the lathe to be overcome. The three newcomers for turning applications are optimised for solution of specific problems and real masters in their field.

The GARANT Master Mute vibration-damping boring bar incorporates a new type of damping system which reliably neutralises the natural frequencies of the boring bar and eliminates disruptive vibrations within the machining process. This not only achieves high surface quality but also delivers gains in productivity because it eliminates the need to reduce the cutting depth, cutting speed or feed rate. The tool

is suitable for use with the interchangeable cutting heads of systems GL, QC and DM. It is maintenance-free and is ready for immediate use ex-works.

The GARANT Master ECO screw-on toolholder demonstrates its strengths to the full in materials with poor thermal conductivity such as stainless steel, titanium or nickel-based alloys. The “Efficient Cooling” system selectively targets the area between the chip and the cutting edge and continuously washes it with coolant. In addition, the flank face cooling reduces the thermal stress and improves the chip clearance. This considerably reduces the heat input into the rake face and flank face and allows the cutting speed to be increased, delivering better process reliability and also longer tool life. The versatile Eco-VDI toolholder system with direct coolant transfer is particularly easy to arrange. There is also the option of connection using a hose system. In contrast to conventional cooling systems the GARANT Master Eco is a strikingly simple solution that requires no expensive peripherals.

GARANT Master Turn boring bars are optimised for very small pre-drilled diameters. The helical profile of the chip channel guarantees reliable chip evacuation from the workpiece and improves process reliability.



Caption: Three new tools in the GARANT Master tool family.

These dampen vibration, reduce process heat and reliably evacuate chips from small bores.

(FLTR: GARANT Master Eco, GARANT Master Turn, GARANT Master Mute)

The Hoffmann Group

More than 4,000 highly motivated people make [Hoffmann Group](https://www.hoffmann-group.com) what it is today: Europe's leading partner for quality tools, workstations and storage, and personal protective equipment. With services that complement our products, the Hoffmann Group simplifies procedures for procurement and supply for 135,000 customers in 50 countries. In addition to machining, clamping, measuring, grinding and cutting tools, the portfolio also comprises hand tools, occupational safety equipment, workstations and storage, workshop articles and digital services and solutions. Customers include large stock market listed corporations as well as small and medium-sized companies. In addition to the brands [GARANT](#) and [HOLEX](#) the Hoffmann Group offers more than 500 top brands from a single source. With comprehensive customer service in all regions and a TÜV-certified delivery quality rating, the Munich-based specialist for industrial tooling and equipment can be trusted as a reliable and efficient partner for its customers. In the trading year 2021 the Hoffmann Group achieved a turnover of more than 1.3 billion euros.

For more information visit www.hoffmann-group.com

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