

Press release

New turning grades for increased cost-effectiveness when machining steel and stainless steels

Hoffmann Group expands GARANT HB70 series and GARANT HB71 series

Munich, 30 June 2017 – With three new turning grades for machining steel and stainless steels, [Hoffmann Group](#) is expanding its GARANT HB70 series and GARANT HB71 series product families. The new GARANT HB7035-1 has been optimised to meet the extreme requirements of steel machining with severely interrupted cuts. The new GARANT HB7120-1 and GARANT HB7140-1, on the other hand, are suitable for machining stainless steels (inox) with continuous or interrupted cuts. With these new products, Hoffmann Group now offers a wide range of tool materials for every application.

The new GARANT HB7035-1 turning grade completes the steel turning family, which includes the GARANT HB7010-1 and HB7020 grades that are already established on the market. The GARANT HB7035-1 turning grade is visually identical to the GARANT HB7020, but has been designed and developed for severely interrupted cuts. Performance is ensured by an Al₂O₃ multilayer coating and a tailor-made gradient carbide substrate with a hard exterior and an elastic core. Thanks to these properties, the GARANT HB7035-1 delivers optimum cutting data with maximum reliability for severely interrupted cuts.

The two new GARANT HB7120-1 and GARANT HB7140-1 turning grades, on the other hand, achieve optimum cutting data and excellent tooling times when machining stainless steels with continuous or interrupted cuts. A newly developed CVD-PT multilayer coating makes their surfaces particularly smooth, reducing their adhesion tendency.

As with all members of the GARANT HB70 series and GARANT HB71 series product families, only coatings with directional crystal structures have been used for the new turning grades. The surfaces of the tool materials are therefore extremely resistant. The graded, tough carbide substrates also ensure exceptional durability. These have a greater proportion of titanium nitride (TiN) on their edges. This increases adhesion and prevents the coating from shearing off.

The new GARANT HB7035-1, GARANT HB7120-1 and GARANT HB7140-1 turning grades are now available via the [eShop](#) of Hoffmann Group, and from 1 August 2017 will also be offered through the new 2017/2018 catalogue.

Find more information:

- Brochure: “GARANT turning”
- Video: “GARANT Practical competence in turning”



Image caption: The new GARANT HB7035-1 turning grade is visually identical to the GARANT HB7020. However, it has a tougher design and has been optimised to meet the extreme requirements of steel machining with severely interrupted cuts.



Image caption: Same appearance, different applications: GARANT HB7120-1 and GARANT HB7140-1 are designed for machining stainless steels with continuous or interrupted cuts.

Hoffmann Group

The Munich-based [Hoffmann Group](#), built on the true quality of German design and engineering, is Europe's leading system partner for quality tools. Hoffmann Group combines commercial expertise with both manufacturing and service competence. This combination guarantees reliability in supply, quality and productivity in the tooling sector and with workstations and storage solutions to over 135,000 customers. Optimum and reliable advice, from individual needs analysis through to efficient use of products, is assured at all times. Alongside tools for machining, clamping, measuring, grinding and cutting, the portfolio also comprises hand tools, protective work-wear, 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, Hoffmann Group generated a worldwide turnover of more than 1.1 billion euros. Including [GARANT](#), its own premium brand, Hoffmann Group offers 70,000 quality tools from the world's leading manufacturers. With comprehensive customer service and a delivery quality of over 99 percent as certified by TÜV, the tools specialist with its 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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