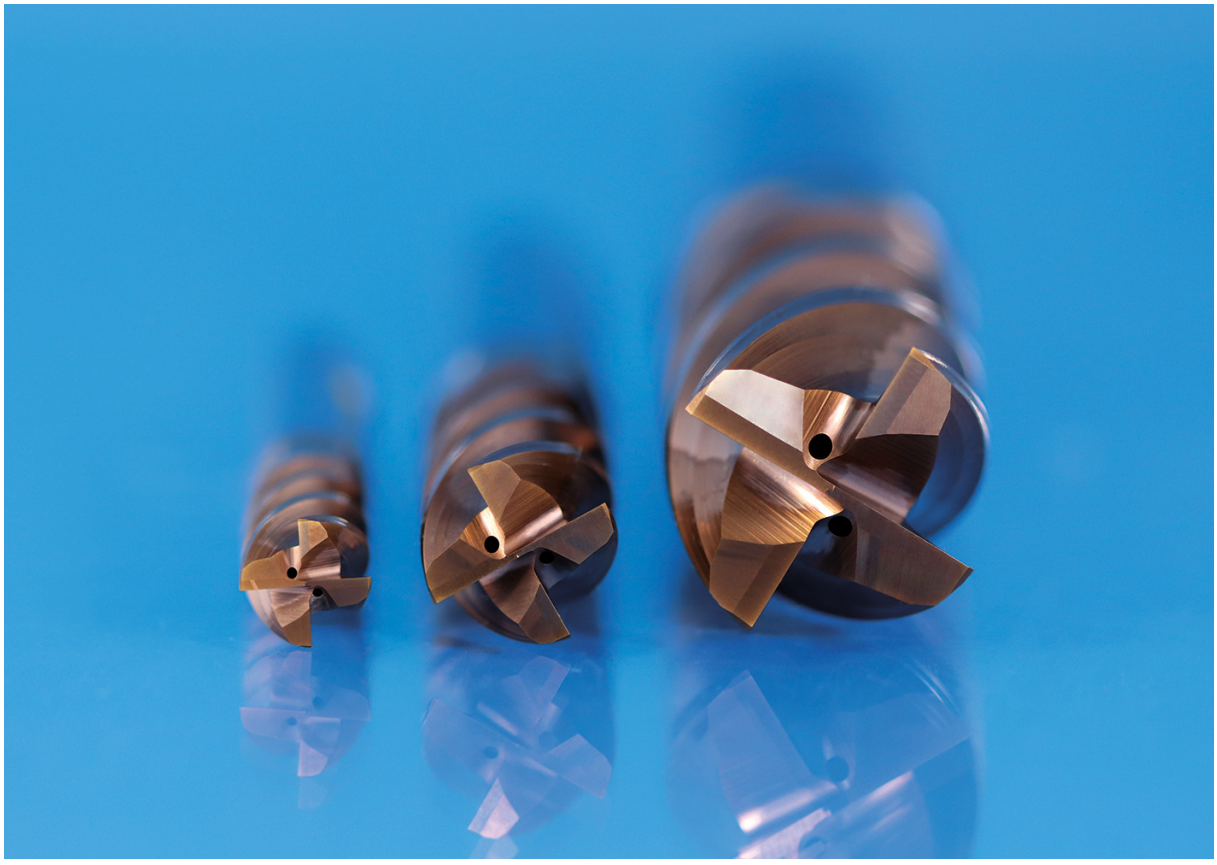
Jongen UNI-MILL VHM 479W HD08

Jongen Werkzeugtechnik presents the new solid carbide cutters VHM 479W HD08 for the high-performance machining

Many materials with high ductility and tendency to stick are always a challenge in machining. Problems with the chip flow are in most cases the performance-limiting criteria.

To generate process reliability and machining performance for this application area, Jongen Werkzeugtechnik GmbH has developed the 4-edged solid carbide milling cutter type VHM 479W HD08.

The miscellaneous application areas are step milling, contour milling, full slot milling, ramping up to a plunging angle of 29°, helix milling, as well as trochoidal milling and at the same time these Jongen UNI-MILL solid carbide cutters are suitable for roughing, as well as finishing operation, thus they are universally applicable.



Due to the stable but still open, 4-edged construction, this tool type is particularly suitable for the economical processing of materials that normally cause problems due to poor chip evacuation, when using traditional tool designs. This is relevant for example for the machining of inox, difficult-to-mill materials, such as nickel-base alloys and titanium, as well as for the machining of steel materials up to medium strength properties. This tool type has been designed especially for these application areas.

Continued on the next page ⇒

Four generously dimensioned profile grooves in combination with a stable basic construction and a positive cutting edge geometry, with a special cutting edge preparation are the properties that make this tool type so powerful and resilient.

Enlarged chip spaces in the front surface area ensure optimized chip flow for full slot milling operations with axial depth of cut 1xD depth. In addition, the internal cooling with front side exit (starting from a diameter of 6 mm) ensures not only better cooling results, but also a better chip flow when full slot milling, ramping, helix and pocket milling operations are applied.

The carbide that has a grain size of 1.0µm offers very good wear resistance and edge stability with high toughness. The silicon-doped HiPiMS coating has an extremely homogeneous and efficient layer structure and thus a particularly high hardness and temperature stability. This combination of optimally coordinated carbide and coating - the HD08 grade - offers high flexural strength and wear resistance at high process temperatures.

The coupling is made to DIN 6535-HB (Weldon) and ensures a safe pull out protection of the tool holder. The optimized undercut shank with soft transitions to the shank results in improved tool rigidity with increased tolerance against vibrations.

The solid carbide cutters are immediately available in diameters ranging from 4mm up to 25mm.

Jongen Werkzeugtechnik GmbH
Siemensring 11 · 47877 Willich
Tel: 02154 / 9285-0 · Fax: 02154 / 9285 92000
www.jongen.de · email: info@jongen.de