

WWX400 - INDEXABLE MILLING CUTTERS

Mitsubishi Materials has added a versatile indexable insert milling cutter to its extensive range of high performance tools. The new WWX400 is a series of true 90° corner milling cutters for face, shoulder and copying applications. Featuring economical double-sided trigon inserts with 6 cutting edges, WWX400 has been designed to meet all the needs of the modern metal cutting industry.

Precision and reliability

The innovative and accurate geometry of the insert pocket, together with precise locating of the inserts on the tool body, ensures that a true 90° wall can be machined on components. In most cases, this eliminates the need for secondary finishing operations, thereby saving valuable production time and costs. WWX400 cutters can perform at high feed rates to ensure usability and efficiency across a wide choice of applications. The body features four contact faces inside the insert pocket, plus the use of a large screw, that provides high insert clamping strength and stability without compromising accuracy. This means it can be used for semi-roughing as well finishing operations. To further enhance usability and dependability, each body has internal through coolant channels that exit to supply high pressure cutting fluid directly at each insert.

Innovative and economical inserts

The unique carbide inserts feature 6 usable cutting edges that offer lower costs and excellent process reliability thanks to a negative seating geometry but provide a positive sharp cutting action. This generates low cutting forces and together with an increase in insert thickness compared to conventional types, also provides excellent resistance to breakage.



Furthermore, a high maximum depth of cut of up to 8.2mm enables efficient shoulder milling capabilities. In order to meet component surface finish expectations, the bottom of all inserts feature a large radius geometry that acts like a traditional wiper.

Three different chipbreakers are available, the L, M and R breakers for light, medium and rough machining respectively. These can be matched with an extensive selection of 8 different coated and uncoated carbide grades, providing choices that ensure the ideal combination can be chosen to effectively machine a wide range of materials.

Sizes

The WWX400 arbor type face mill cutters are available from Ø50 - Ø250 in coarse, fine and extra fine pitch geometries. Shank types from Ø50 - Ø80 can also be specially ordered.

