

## NEW SMALL INSERT AHX440S FACE MILLING CUTTER

After the success of the original AHX640W series for machining cast iron materials; plus the larger insert type AHX640S for general machining, it was an easy decision to develop new inserts and cutters that were suitable for a wider range of materials. The new cutter body AHX440S for smaller inserts demonstrates versatility throughout the range by ensuring that the same high performance and economical 14 cutting edges can be utilised on smaller and low power machines.

Reduction in overall production costs and improved productivity is a constant theme; and with heptagonal double sided inserts giving 14 cutting edges, this latest cutter goes a long way towards reducing machining costs. Additionally, a simple but robust single screw clamping mechanism also improves insert indexing times. The rigidity needed from the clamping mechanism itself is provided by a full circular contact between the pocket seat and the insert. This is especially important when consideration for handling the cutting forces for depths of cut up to 3,5mm and feed rates between 0.15mm ~ 0.3mm per tooth.

The inserts available for the AHX440S cover a huge range of applications from carbon steels, stainless steels and cast irons through to hardened steels.

For steel machining, Mitsubishi's latest range of PVD



coated MP inserts, MP6120 and MP6130 are ideal with the L and M chipbreaker geometry. Stainless steels are easily machined by using the tough new grades MP7130 and MP7140 that have high resistance to thermal cracking and a smooth surface to prevent chip welding. The tried and trusted VP15TF and MC5020 inserts are available for efficient milling of cast iron. Additionally, by using the highly versatile VP15TF grade inserts that are also suitable for hardened steel applications, means that AHX440s cutters are extremely useful when used across both small job shop batches on different materials or in high productivity environments.

Important identification of the insert corners is also made easy when indexing is required due to the numbers 1 to 7 being sintered onto the insert itself at the manufacturing stage.

The AHX440S cutter range covers fine, medium and super fine pitches and are available from Ø63- Ø160.



Thicker inserts for rigidity and reliability

Cutting edge number to easily identify used edges

