

MINI MVS DRILLS - MITSUBISHI EXTENDS DRILLING RANGE

New Generation Solid Carbide Drills

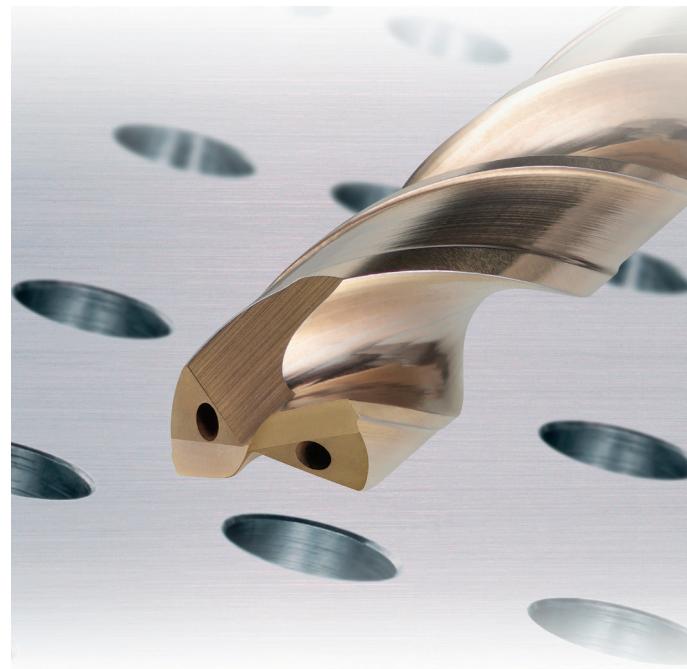
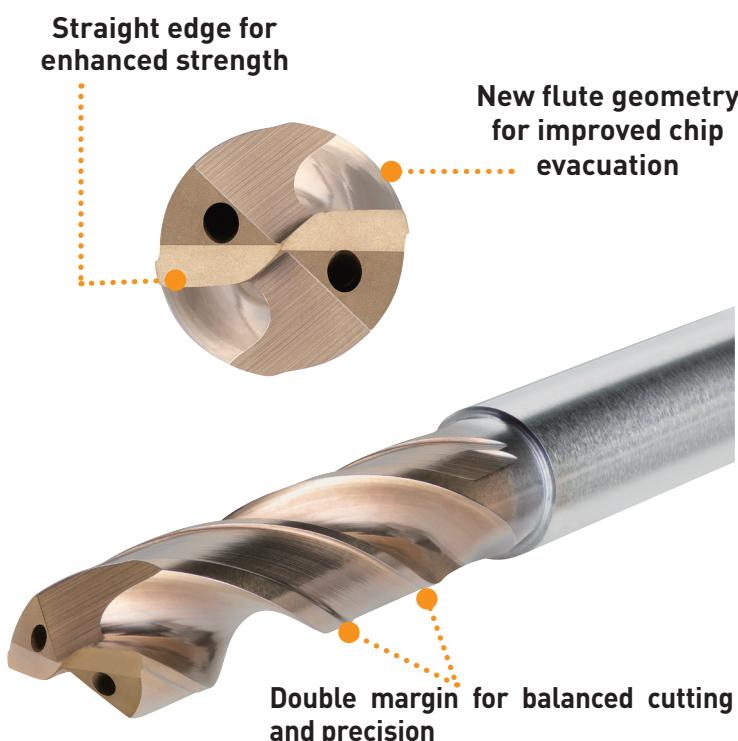
The extensive drilling range from Mitsubishi Materials has now been extended with the introduction of a new series, Mini-MVS drills. They are designed for high precision drilling of small diameter holes and provide impeccable hole quality, swarf clearance and productivity levels.

The Mini-MVS series is available in diameters from 1 to 2.9mm in increments of 0.1mm with a drilling depth of up to 30xD. This next generation of solid carbide drills is a multi-purpose range that can be applied to a diverse range of materials and applications. The wide application range is credited to Mitsubishi's Miracle Sigma coating technology that provides outstanding tool life on all material types.

The stability of the Mini-MVS enables it to at least double tool life over conventional solid carbide drills when creating holes in materials such as mild, carbon and alloy steels, ductile cast iron, grey cast iron, stainless steels, aluminium alloys and heat resistant alloys.

Enhanced performance

Mini-MVS generates process security and precision when deep hole drilling with its straight cutting edge



geometry that enhances edge strength and improves chip evacuation. Adding to the remarkable swarf removal characteristics is a new flute geometry with a chip breaker that creates compact and fine chips that eliminates stringy swarf when cutting at high speeds. The removal of chips is also enhanced with a through coolant facility that supplies high pressure coolant direct to the cutting edge. The coolant delivery dissipates heat from the cutting edge whilst rapidly removing chips to prevent build-up.

Precision small hole drilling

To create unparalleled precision and balance, the Mini-MVS also incorporates a double-margin on its periphery to generate excellent surface roughness levels inside the hole. This double-margin also optimises the balance of the drills, so high speed precision drilling is improved. The Mini-MVS is available with four variants whereby type one and two are stub length drills for enhanced rigidity and performance with a 145 degree point angle. Type three and four drills have extra flute length and a 140 degree point angle for precision deep hole drilling up to 30xD. The four variants provide a total of six different geometry options for each of the 0.1mm increment drills, providing a comprehensive solution for all materials and small hole making applications.