

Large Moving-Column Mill/Turn Centre Provides Universal Machining Capability

The MX12 TM mill/turn centre manufactured by Huron combines accuracy, rigidity and high performance with great flexibility, providing a truly universal machine tool for processing large, complex components and difficult materials. The highly adaptable, multifunctional portal-type machine with moving column can cut in 5 axes and on five sides in one setup, performing roughing to finishing operations and all sorts of turning.

Featuring cast-iron elements and a vibration-damping structure, the MX12 TM allows large parts to be clamped. The 1,400-mm-diameter pallet worktable holds parts 1,400 mm in diameter and as high as 1,130 mm;



it has a 2,500-kg capacity. The motorized table rotates at a maximum continuous speed of 250 rpm and has a clamping torque of 7,000 Nm.

This machine provides travels of 1,200, 1,600 and 1,000 mm in the x-, y- and z-axes, respectively. With

axis accelerations to 4 m/sec² and rapid traverse rates to 40 m/min, it offers outstanding dynamics. Its swivelling spindle head tilts from -45° to 180°. This, along with the rotary table on the linear axis, maximizes process freedom.

Other important machine features are its standard 50-kW, 10,000-rpm spindle, Hirth coupling to support high-accuracy turning, two-station pallet changer with various clamping options, and other automation components, including a high-capacity automatic tool changer.

Huron Graffenstaden SAS
Illkirch, France
www.huron.fr

Low Height, Long Z-Axis Distinguish Travelling-Column Machining Centre

Using a proprietary modular system of engineering, Matec Maschinenbau GmbH has developed the new Matec-30 HVE travelling-column machining centre from the basic design of its HV-series machines. This machining centre's outstanding features include a compact height dimension, which makes it easier to set up in the low-ceilinged

production halls that are common among tool and mould making companies and job shops. Also, its cladding can be removed completely. These two advantages additionally enable the Matec-30 HVE to be transported economically in a truck or container of normal size.

The standard traverse paths of the new Matec machining centre are 600 mm in the y-axis and 800 mm in the z-axis, with the x-axis travel being variously 1,500 mm (with the swivel head in the horizontal position) or 1,300 mm (with the swivel head in the vertical position). An inte-

grated 630-mm-diameter direct-drive rotary table and the long z-axis make the centre a good choice for demanding projects requiring 3-D and five-side machining. The rigid design of the Matec-30 HVE supplies the high dynamics necessary for machining in three dimensions.

The separation of the b- and c-axes from the linear ones provides extremely stable chipping conditions, with the consequence that operators can produce machined parts that feature optimal contour consistency and very good surface quality. A fixed tool magazine with 30 tool pockets is integrated into the machine on the right-hand side.

Matec Maschinenbau GmbH
Köngen, Germany
www.matec.de

