



drilling on six faces of the panel

The Uniflex HP from Morbidelli is a machining centre built to satisfy all the operations of drilling, routing, cutting and hardware insertion, bringing the high efficiency of a through-feed boring machine to the flexibility of a working centre to provide maximum performance. We spoke to SCM NZ agent Machines R Us about the Uniflex and sought comment from a recent purchaser.

Thanks to its versatility and the different displacement systems of the workpieces with automatic loading and unloading devices the Uniflex HP can work integrated in line or as a stand-alone machine. It is simple and practical to use, with dedicated and powerful software for increased optimization of the machining phases.

The CNC drilling centre, with fixed work table, upper pressers and mobile panel guarantees the perfect positioning of the work piece. It is dedicated to drilling on 5 sides of the panel with an upper and lower saw-blade cutting along the "X" axis. Equipped with an independent double clamp and able to work simultaneously on two overlapped panels, it measures the total panel thickness automatically adjusting the clamping devices to suit.

Operating group

The Uniflex HP possess upper and lower drilling heads, with new technology RO.AX (Rotoaxial spindle technology) zero axial and radial backlash. They are produced in a single aluminium alloy fusion for high drilling accuracy (+/- 0.1 mm), with up to 134 independent spindles (96 vertical and 48 horizontal). A maximum rotation speed 6,000 rpm, managed by inverter. It's possible to integrate upper and lower electrospindles, hinges heads and dowel inserting devices.

Optimisation & reduction in cycle times

The panel hold-down grippers with X independent movement allow drilling and routing operations in positions inside the

Uniflex has upper and lower units to allow simultaneous work on the opposite faces and is equipped with RO.AX technology that ensures perfect boring and axes speeds up to 120 met/min

gripper area, optimizing the re-clamping of the workpiece, reducing the cycle times and allowing processing on all 6 faces of the panel.

Maximum accuracy

The 3 pneumatic pressure devices are equipped with support rollers which guarantee the perfect reference of the panel on the work table next to the area of X and Y horizontal boring, assuring the accuracy of the Z quote.

Optionals

- drilling on 6 sides of panel
- upper and lower saw-blade cutting along "X" and "Y" axes
- vertical routing on the upper and lower surface of the panel
- automatic piece measurement along "X" axis
- automatic piece measurement along "Y" axis



Compac Furniture purchased their Uniflex HP from Machines R Us last year to increase their drilling capacity and have found the quality and performance to be excellent.

Fast & Accurate

"We are using the Uniflex for drilling and machining laminated panels. The main purpose of installing this machine was to increase our drilling capacity and reduce our reliability on an older CNC.

We selected the Morbidelli because of the different features it offered that would compliment some of the weaknesses our other CNC's had. The most important being it's higher capacity for end drilling.

The machine is fast and accurate and has certainly delivered the extra capacity we needed."

Ken Simpkin
Compac Furniture
Dargaville

