

**For Immediate Release**

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**Mitsubishi M-H5B/20 Horizontal Machining Center**

Addison, Illinois, October 23, 2001 - The M-H5B/20, featuring larger travels, greater taper and increased pallet size is the newest addition to the Mitsubishi HB Series of horizontal machining centers, which are ideal for a wide variety of production operations, particularly in mold and die making companies and job shops.

The highly rigid core of the new M-H5B/20 follows the design of the M-H4B - with its solid, cast iron bed 34 in. (860 mm) thick, resting on a three-point bearing and a 20 in. (500 mm) table coupling - in fact, the M-H5B/20's coupling is a full 2 in. thicker than the M-H4B. Being the newest generation in the HB Series, the M-H5B/20 includes updated features such as a completely re-designed 50 taper, low vibration spindle, a 19.7 in. (500 mm) pallet and a Meldas 635M control for programming high speed machining functions.

The new spindle design places the front bearing 25% closer to the spindle end, in addition, the wall thickness at the spindle nose has been increased substantially, these improvements combine to increase spindle rigidity by 30% to allow for heavy duty machining. Furthermore, spindle vibration has been reduced to less than .003mm (.0001 in.) throughout the spindle speed range by using continuous-coil springs for tool locking and by executing precise balancing tests during each stage of spindle assembly.

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## **Mitsubishi M-H5B/20 Horizontal Machining Center, Page 2**

The M-H5B/20 boasts both rapid traverse and cutting feed rates of 1,575 in./min. (40,000 mm/min.) for high-speed production. The 4 in. (100 mm) diameter spindle turns at 12,000 rpm and the fast automatic tool changer results in a chip to chip time of just 5 seconds. This spindle is designed as a traveling column (X and Y axis) with long 25.6 in. (650 mm) travels in the X, Y and Z axes.

Like the M-H4B, the Mitsubishi M-H5B/20 also features a unique, innovative "learning" automatic tool changer. Operators simply load the tools into the magazine in the order that is most convenient and the ATC automatically optimizes their locations for greatest efficiency as it goes through first piece operations.

For efficient removal of chips and coolant, steeply peaked 30° telescoping guards guide material underneath the column so that it can be moved out the back of the machine. In addition, the chip conveyor trough has a steel liner isolating it from the cast base, thus eliminating thermal contamination of the machine's geometry.

Operator ease of access and comfort is improved with doors that open fully on three sides - front, back and top - to allow unrestricted, drip-free access to the column and workpiece.

For more information on the M-H5B/20 horizontal machining center and the complete line of Mitsubishi Machine Tools, contact the Machine Tool Division of Mitsubishi Heavy Industries America, Inc. at (630) 693-4700 or visit us on the web at [www.mhi-mmt-com](http://www.mhi-mmt-com). Our headquarters are located at 1250 Greenbriar Drive, Suite B, in Addison, Illinois, 60101.

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