

HIGH-SPEED VERTICAL MACHINING CENTER FROM YCI SUPERMAX FEATURES AUTOMATIC PALLET CHANGER FOR HIGH PRODUCTION OF SMALL PARTS**SANTA FE SPRINGS, Calif. — (August 17, 2000) —**

YCI Supermax, a leading manufacturer of CNC and conventional machine tools, has introduced the new FV56A vertical machining center. The high-speed machining system is ideal for use in industries requiring high production of small precise parts, including aerospace, automotive, electronics, molding, stamping and tooling. Highly flexible and versatile, the FV56A can be used for a wide range of machining applications, such as drilling, tapping, and milling, while its compact footprint provides maximum production in shops with limited floor space.

The FV56A's automatic pallet changer (APC) utilizes a high-speed rotary mechanism that can complete one cycle of pallet changing in six seconds. Designed for high-volume part manufacturing, the system increases machine and operator productivity by virtually eliminating unnecessary down time. The operator is able to load, unload, inspect parts and set up jobs while the alternate pallet is in the machine. The APC unit has an easy-to-open swingout design, which allows access to the work area for setup. The APC is driven by a servo motor for extreme reliability. In addition, the FV56A's hydraulic unit generates 11,000 pounds of clamping force on the pallet to ensure cutting stability. Space-saving APC design makes the best use of the valuable shop floor, boosting production by over 100%.



The FV56A comes equipped with a Fanuc 18MC CNC controller featuring extended memory, AICC (basic high-speed software), a full alphanumeric keyboard, and 4,000 RPM high-speed rigid tapping, eliminating the need for expensive floating tap holders. The controller also has a RS-232 interface for uploading and downloading CNC programs. Additional standard equipment includes full chip and coolant guards, a handy coolant gun, and an oil skimmer.

The FV56A is equipped with a digital spindle motor that provides 15HP output for a maximum speed of 10,000 RPM. To optimize production flow, the machining center also features a fast 20 tool swing-arm ATC system capable of 2.5 second tool-to-tool change times and five second chip-to-chip change times. A bi-directional, random access tool magazine also maximizes efficiency. The work envelope for parts is a generous 22" x 16" x 17.71" in the X-Y-Z axes, with the system maintaining a high accuracy of + 0.00016" with + 0.00008" repeatability. The FV56A's automatic central lubrication system includes a spindle chiller to ensure consistent precision during extended machining processes. In addition, a spindle air blast system protects the tool taper from chips and eliminates runout caused by chips on tool shanks. A standard spindle air curtain protects the spindle bearings from coolant mist and fine chips during high-speed operation.



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The FV56A's rigid body construction makes for uncompromising precision in high-speed machining. The system's rugged, heavy-duty Meehanite® castings provide optimum structural stability and exceptional vibrational damping when compared to cast iron or weldment frames, creating greater accuracy and superior finish. In addition, precision hardened and ground, pre-loaded ball screws increase longevity and lower maintenance costs. Standing 8'D x 5'4"W x 8'1"H, the FV56A's compact footprint allows it to fit where floor space is limited. Available for immediate delivery, the Supermax FV56A offers the best value and performance in its class.

YCI Supermax is one of North America's leading manufacturers and distributors of CNC and conventional machine tools. Based on the most cutting-edge and highest quality standards, the company's wide range of products includes manual and CNC milling machines, CNC turning centers, CNC vertical and horizontal machining centers. In addition YCI Supermax offers manual and CNC engine lathes, tool and cutter grinders, and radial drills. The company's products are manufactured in Taiwan by one of the world's leading machine tool manufacturers: YEONG CHIN CO., LTD. In addition to being ISO 9001 certified, YEONG CHIN is also the first machine tool builder to be awarded with ISO 14001 Environmental Protection Certification.