Gantry-Style, High-Speed Machining Center

DATRON Dynamics has launched the M8 Cube – a “next generation” German-engineered, high-speed machining center designed for greater speed, accuracy and industrial durability.

DATRON’s main objective in the design of the M8 Cube was to reduce the number of parts, overall cost, and ultimately to simplify both service and support. Brushless, direct drives provide faster acceleration, feed rates up to 866 inches per minute and shorter cycle times. A 3kW, 40,000 RPM, liquid-chilled spindle delivers greater horsepower for heavier machining, as well as the flexibility to mill a wide range of materials. HSK-E 25 tool holders offer precision and <1 micron run out.

At a time when shop floor space is at a premium, the M8 Cube has a footprint of only 69” x 69”. At the same time, it features a large work area of 40” x 28” x 9” (X,Y,Z). This allows for multiple setups and accommodates DATRON’s integrated work-holding systems, automation and rotary axes – all combined and configured to meet the exact needs of the manufacturer.

The M8 Cube is controlled by a dynamic Windows-based software that has the flexibility to integrate with third-party software and automation systems. Operation indicator lights built in to the gantry and control provide visible machine status eliminating the need for additional light sticks. Other options include a spray-mist coolant system, integrated 3D probing and automatic tool changers with up to 30 stations and tool-length sensing. The M8 Cube is ideal for precision, high or low volume production of electronic, aerospace and medical parts, as well as industrial engraving applications.

DATRON Dynamics
603-672-8890; www.datron.com [1]

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[1] http://www.datron.com