



METAL CUTTING

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Modular and open machining system

CIRCLE 324

Hydromat's Advanced Technology (AT) machine is a modular, open-architecture machining system well suited for mid to high-volume part production from irregularly shaped cast or forged blanks. Available in 8 to 10-station models, with a 115-mm-diameter work envelope, the AT also handles families of parts or highly engineered complex component shapes.

Users set up and fixture parts on modular pallets outside the AT. These pallets transfer into the machine via an integrated load/unload station. The machine's table then moves the pallets from station to station.



**HYDROMAT INC.
ST. LOUIS
BOOTH A-8127
CIRCLE 325**

Toolroom bed mills

There are five models of RH toolroom bed mills ranging in size from 24×12 to 60×30 in. Closed-loop, high-torque vector spindle motors provide speeds up to 12,000 rpm, and PC-based conversational CNCs provide color LCD graphics. Optional ATCs and full machine enclosures are available with the RH mills.

**MILLTRONICS MANUFACTURING CO.
WACONIA, MINN.
BOOTH A-8442
CIRCLE 326**

Parallel-mechanism machine

Developed for die/mold machining that requires less polishing, the Cosmo Center PM-600 parallel-mechanism machine tool tackles high-speed and sculptured-surface machining, while providing continuous operation with a 20-station ATC. Fast axis feeds and quick acc/dec are results of parallel-mechanism technology. Feedrates are 100



m/min, and maximum acceleration is 1.5 G. Axis travels measure 23.26 in. for X, Y and 15.75 in. for Z. The machine's 40-taper spindle runs up to 12,000 min⁻¹ and slants within a range of ±25°.

**OKUMA AMERICA
CORP.
CHARLOTTE, N.C.
BOOTH A-8301
CIRCLE 327**

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THE TRADE'S SECRET



The #1 Way to Drive Costs Out of Manufacturing: Introducing the 1-Series from Makino.

The 1-Series from Makino inaugurates a new era in reliable, high-performance horizontal machine tools. Created in response to market demand, the 1-Series delivers the advanced proven technology of Makino's A-Series and J-Series at a very competitive price.

The First 1 The compact Makino a51 got the 1-Series off to a very fast start. Offering faster spindle acceleration/deceleration (up to 12,000 rpm standard) than competitive HMCs, the a51 delivers swift axis movement, minimal vibration and easy maintenance in a compact unit.

A Bigger 1 The a71 is the largest in the 1-Series (so far), designed to handle up to 1,540 pounds (700 kg). Also offering swift axis movement and faster spindle acceleration/deceleration (up to 10,000 rpm standard), the a71 has a feedrate of 50m/min. and a 60-tool magazine with a short seek time, diminishing out-of-cut time.

Both the a51 and a71 have quickly demonstrated that they can help you drive costs out of your manufacturing process. For more information on the newest Trade's Secret, call 1-800-552-3288 or visit us on the Web.

Circle 128



www.makinotradesecret.com

IMTS BOOTH 8400