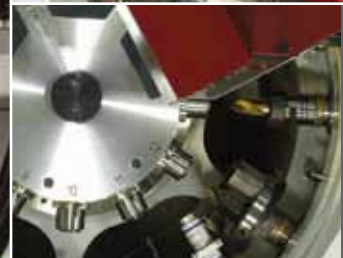
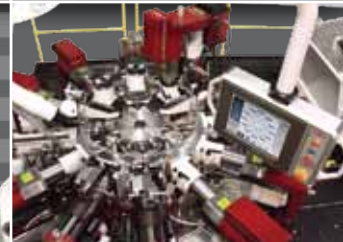


# ***EPIC R/T*** **45-12**

*Featuring*  
**EMC TECHNOLOGY** *Embedded Motion Control*



**HYDROMAT®**

## Significant advantages and features of the EPIC R/T line:

- Embedded Motion Control (EMC) providing full CNC programming capabilities
- Supports Lean Manufacturing principles
- Quick, easy changeovers – typically 1-3 hours
- Competitive manufacturing at small, medium and large production quantities
- Easy, centralized programming
- EMC Technology – simplifies components and wiring, reducing potential failures and troubleshooting
- Integrated modem connections provide fast problem solving



## Power of Productivity

**H**ydromat pushed the edge of the transfer machining envelope when introducing the latest EPIC R/T product line. The EPIC R/T possesses all of the general characteristics of the more conventional Hydromat machines and maintains the integrity, reliability and flexibility of its predecessors. What sets this product line apart is the introduction of an engineering advancement called EMC Technology.

The acronym EMC stands for **Embedded Motion Control**. This new control method was developed by a team of electrical engineers at Hydromat's Corporate Campus in St. Louis. This technology features special plug & play control architecture that is integrated, or embedded, into each toolspindle unit. This allows for fully independent and programmable functionality for each axis motion, thus eliminating the use of conventional Hydromat valves and more complex CNC control components. When a toolspindle is moved from one location on the machine to another, the only change needed is to program the unit's strokes. There is no need to re-configure the machine's CNC when tool units are changed. Programming of the unit can be done off-line and downloaded from a remote location or the units can be programmed at the machine.

Applying CNC technology to the manufacture of precision parts is generally accepted as a premium that one must pay for the advantages over

conventional actuation systems.

When it comes to improving profitability, the EPIC R/T Machines with full CNC programmability are able to enhance ROI by reducing changeover times by 300 - 400% (1-3 hours versus 7-9 hours). This reduced changeover time increases overall machine productivity, based on a two-shift operation and 2 changeovers a week, by over 15%. The increased productivity equates to payback or ROI for the Hydromat EPIC R/T Machines being up to 20%\* faster due to reduced changeover and greater productivity.

\*(based on hypothetical 6.0 second cycle time and 30 cent part selling price)



## Hydromat Advantages over Conventional Machining:

- Eliminates Secondary Operations
- Extremely short Remnants and Thin Cutoff for Significant Material Saving
- Reduces Work in Progress
- Increased Productivity Due to Bar Change and Quick Changeover Capabilities
- Non-rotating bar stock Provides Quiet Vibration Free Operation
- Modular Toolspindle System with Quick-Change Presettable Heads for Easy Changeover
- Easily Adapted for Vertical Machining Requirements - Up to 6 Stations
- Easily Accessible Operating Controls and Machine Adjustments
- Coolant and Chips Contained in the Tooling Area away from Motors and Controls
- Precision Table Indexing and Repeatability Ensures Accuracy with SPC to 2.0 CpK
- Inverting Unit Repositions Part for Complete End to End Machining

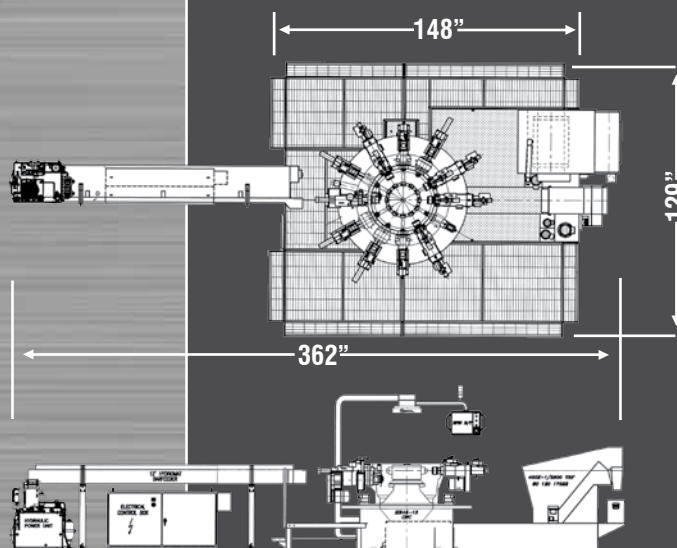
# EPIC R/T 45-12

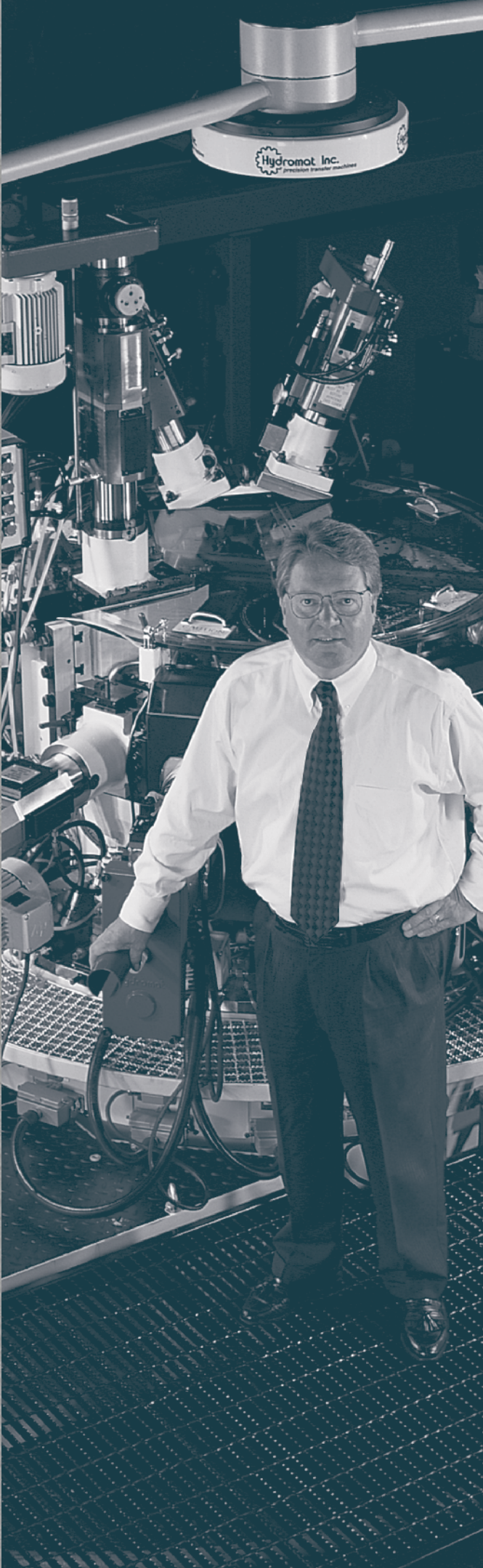
## EMC TECHNOLOGY



## Machine Specifications

Max Stock Size				Hor. Station	Vert Station	Index Time	Weight LBS	Machine Power	Size Unit
Rnd	Hex	Sq	Length						
1 3/4"	1 1/2"	1 1/4"	6"	12	6	0.8	15,000	60HP (Avg.)	EPIC 26/80 EPIC 36/100 EPIC 46/120 EPIC 50/100





“This was a huge breakthrough. I’m particularly proud of our design group, project engineers, machine technicians...everyone who worked on this project, for their diligence and cooperative effort to bring this concept to reality. This latest EPIC R/T technology will surely open new doors for Hydromat and our customers.”

Bruno Schmitter  
President and CEO  
Hydromat



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