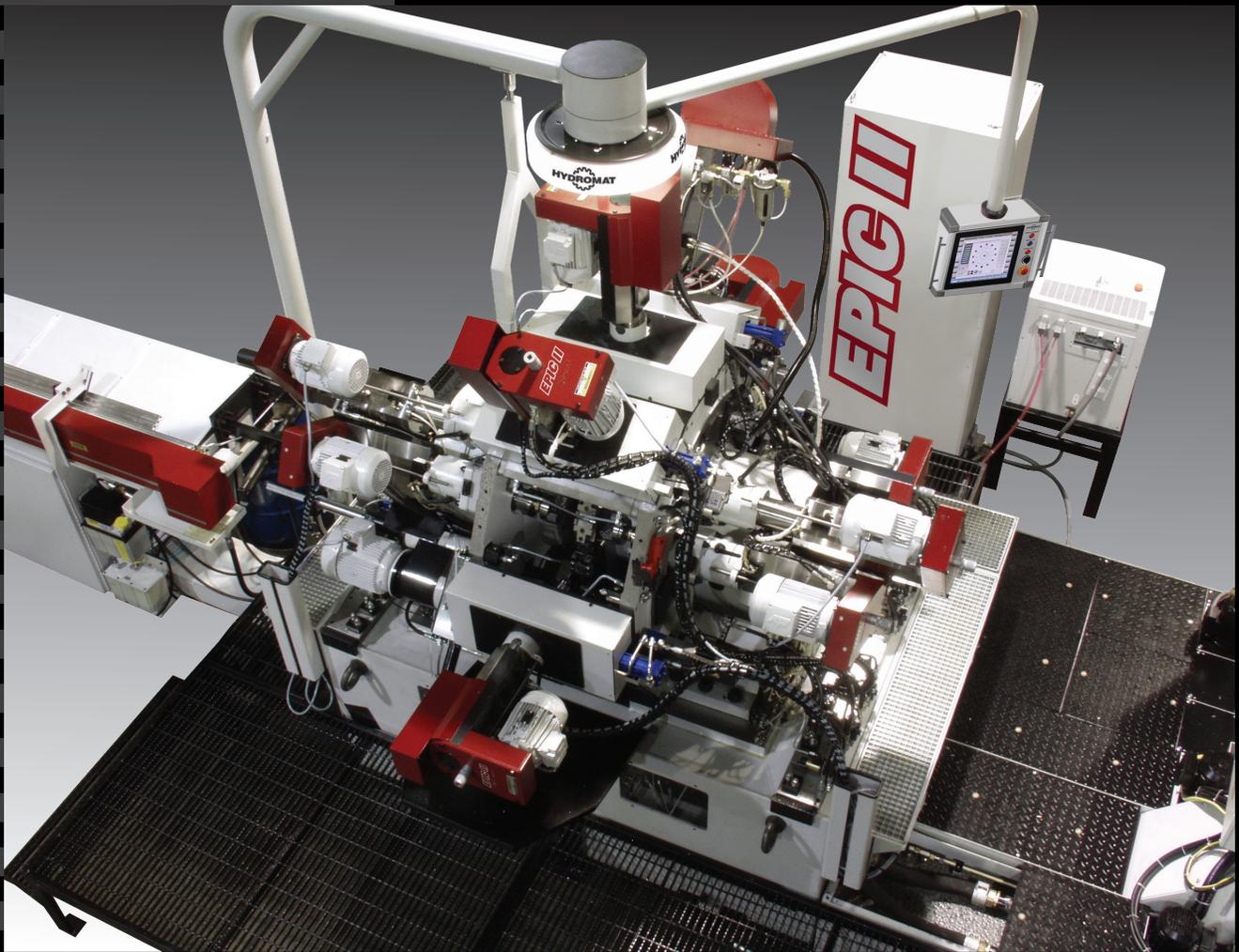


EPIC II

V8 & V12 Trunnion Rotary Transfer Machines



PRECISION

MODULAR TOOLSPINDLE UNITS

The Trunnion V8 & V12 have infinitely variable feeds for each toolspindle unit. Each of the independently controlled toolspindle units work simultaneously allowing the longest machining operation to control the cycle time. All toolspindle units are modular and provide maximum interchangeability for retooling. The Trunnion V8 machine has the capacity for 6 left, 5 right, and 5 vertical toolspindle units. The Trunnion V12 machine has the capacity for 9 left, 8 right, and 8 vertical toolspindle units.

The modular tool head system provides full flexibility to change machining operation (i.e., from drilling to turning or milling), simply by changing the quick-change tool head attached to the end of the toolspindle unit. The quick-change system design provides quick, easy tool changing for worn tool replacement or complete job changeovers.

EPIC II

EPIC II V8 & V12 Trunnion Transfer Machines

The Hydromat Trunnion rotary transfer machines come in two models: the V8 and V12. These models are equipped with the EPIC II CNC control featuring plug-and-play toolspindles for greater flexibility. These modular machines provide tremendous versatility and flexibility in a turnkey system.

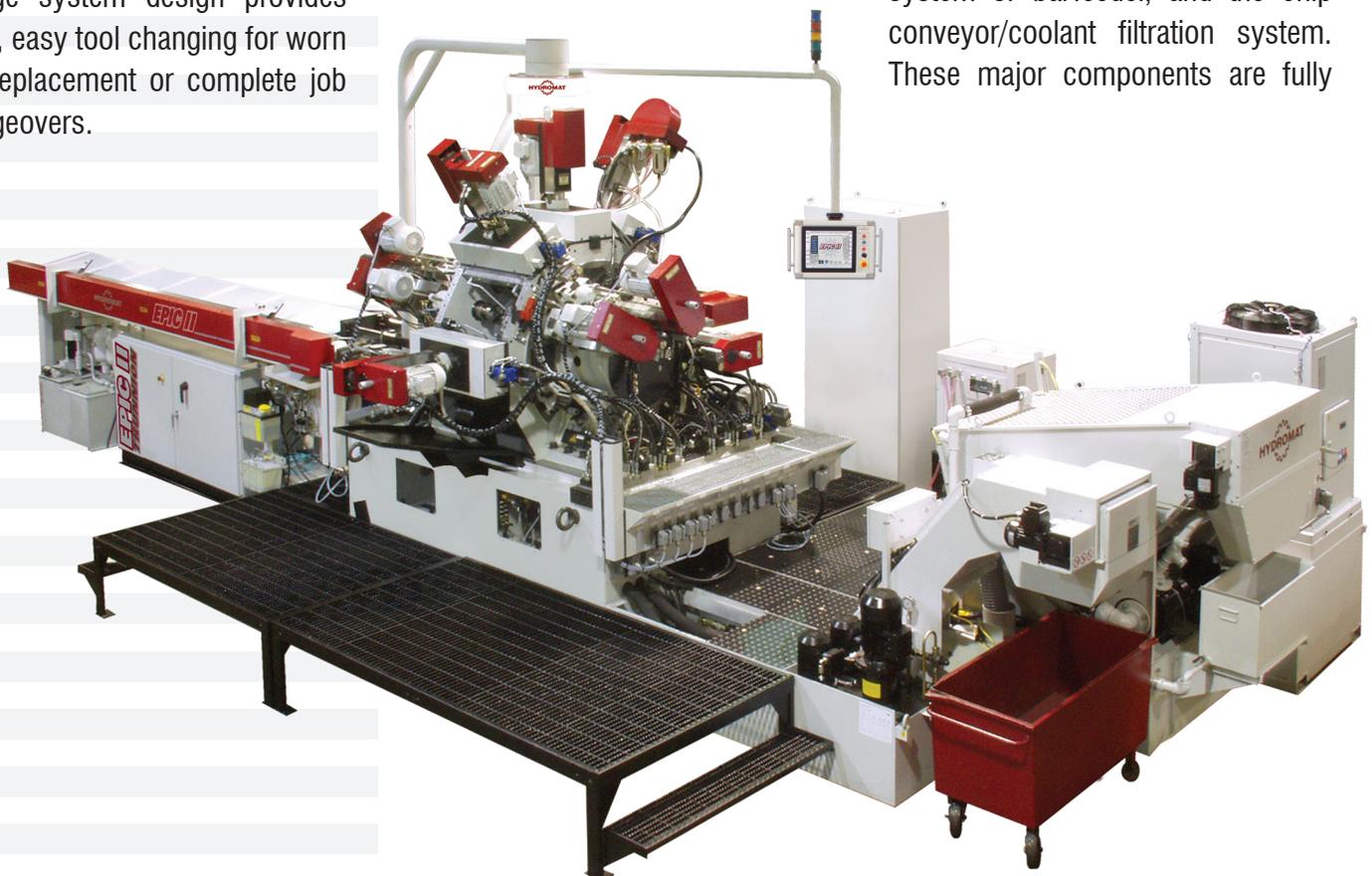
Hydromat Trunnion machines are well suited for the manufacturing of small casting applications, irregularly-extruded bar stock parts, and shafts

from 1/2" to 14" in length.

Consistent, high productivity and precise machining combined with the elimination of costly secondary operations make the Trunnion machines an outstanding solution for cost effective manufacturing.

ACCURACY & FLEXIBILITY

The major elements of the Trunnion V8 and V12 machines include: the basic machine—consisting of a vertical rotary indexing table, rigidly mounted modular toolspindle units—electrical cabinet, hydraulic power supply, automatic loading system or barfeeder, and the chip conveyor/coolant filtration system. These major components are fully



EXCELLENCE

integrated to provide the highest system performance and production efficiency.

The Trunnion machines are equipped with 8 (V8 machine) or 12 (V12 machine) chucks. These hydraulically actuated, self-centering chuck jaws keep the workpiece stationary while the table indexes to each machining position: where independently controlled toolspindle units perform many types of operations (i.e., drilling, cross drilling, boring, turning, milling, external and internal recessing,

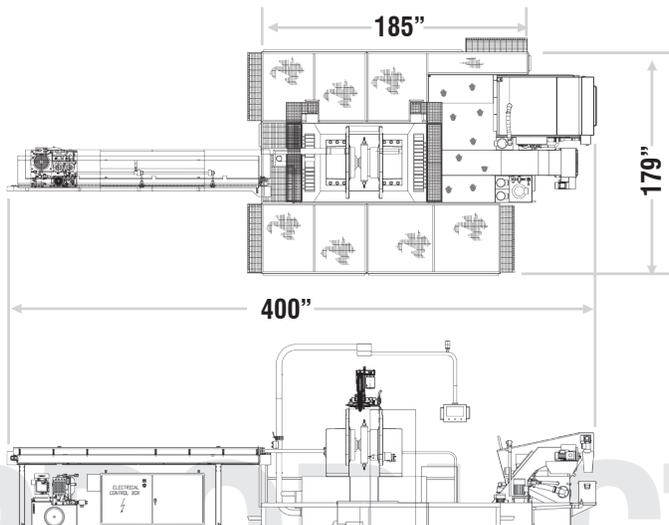
threading, tapping, broaching, etc.). A precision ground Hirth ring assures that the table accuracy and reliability from station-to-station repeats within .0002".

The part is precisely held and positioned with machining access on three sides simultaneously, thereby eliminating the need for multiple chuckings. This capability allows the Trunnion machines to reduce tolerance errors normally associated with multiple clampings.



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"	1/2" - 14"	up to 18	up to 8	0.9	16,500	60HP (Avg.)	EPIC 26/80 EPIC 36/100 EPIC 46/120 EPIC 50/100



PRODUCTIVITY

The Evolution Continues:

**NEW TECHNOLOGY
DRIVEN DESIGN**

IMPROVED ACCURACY

**PERFORMANCE
ENHANCEMENTS**

FASTER PRODUCTION

**MODIFICATIONS AND
STANDARDIZATION**

This new iteration of the EPIC platform boasts advancements such as enhanced operations, production reporting, down time analysis, trouble shooting, and preventative maintenance interval scheduling. These features, among others, will yield improved part set-ups, changeovers, process-tooling development, and integrated tool monitoring. An upgraded servo control features absolute positioning, and a more efficient architecture that reduces failure points.

The EPIC II is a Trunnion rotary transfer solution specifically made for advanced production solutions in the future.



EPIC II

Operational Features

- Improved Accuracy With Absolute Positioning Which Eliminates Need For Unit Home Prox
- Replacement Servo Valves Can Be Locally Configured And Programmed On The Machine And Does Not Require Hydromat Assistance
- Expanded Canned Cycle Selections To Generate Programs Faster And Easier
- Enhanced Operation, Trouble Shooting, and PM Intervals
- Standard CNC Controls For Improved Part Set-Up, Change-Overs, and Process-Tooling Development
- Integrated Tool Monitoring

Control Benefits

- Bosch CNC/PLC Common Control
- Direct Access For Valves, Programming & Feedback
- Standardized Common Servo Valve
- Reduced Wiring And Machine Plugs
- Efficient Architecture With Reduced Failure Points



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FLEXIBILITY