

## **A Vertical Lathe By Name Only**

Ohio, USA

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TOSHULIN a.s. and its North American Importer, Pilsen Imports of Cincinnati, Ohio, will showcase the POWERTURN vertical turning lathe (VTL) at the IMTS 2002 event in September. However, the POWERTURN VTL might be better described as a Vertical Turning Process Center due to its advanced use of industry-leading complimentary technologies and multi-tasking capabilities.

The POWERTURN, introduced three years ago, was designed using input from some of the leading users of vertical turning machines in such industries as Aerospace, Power Generation, and General Contract shops.

With this user input and 50 years of VTL design experience in hand, TOSHULIN built a machine that meets the rigorous demands of its users and provides the flexibility, durability, and reduced handling to deliver faster completed floor-to-floor cycle times.

Since its introduction, the POWERTURN machine has proven to be a workhorse for its users and the flagship of the TOSHULIN product line. The machine has significantly reduced machining, set-up, and handling times generally associated with more traditional VTLs. The features that help to deliver these benefits include a large mass and rigid design coupled with a 100 hp spindle, large 9.45 inch square ram, and a 25 hp live milling spindle. The POWERTURN's advancements are rounded out by the effective use of in-process complimentary technologies, such as part probing and tool probing, and the use of industry standard tool holders, like KM from Kennametal, CAPTO from Sandvik, and common off-the-shelf CAT 50 taper holders. On the POWERTURN, for instance, tool holders are changed automatically from the same tool magazine into a variety of turning and milling adapters—in both the vertical and horizontal orientation—providing the ultimate in tool flexibility.

TOSHULIN's forward-thinking POWERTURN design team did not stop there, however. After additional testing, users demanded high-pressure and high-flow coolant systems like the ones found on their horizontal machining centers. With these last few adjustments, TOSHULIN's mission was accomplished.

The POWERTURN is the world leader in the successful integration and delivery of up to 5000-PSI coolant. The machine sports a total enclosed work area that sheds and directs chips and coolant into an exit conveyor. As a standard feature, the POWERTURN accepts a variety of coolant delivery and mist collection systems to make a truly closed-loop coolant-machining environment.

The POWERTURN also can be fitted with a multiple pallet changer to further enhance its capabilities and provide for automatic unattended and lightly attended operation. TOSHULIN has delivered 24 pallet changer-equipped machines to customers in the last 18 months alone.

Attendees at IMTS 2002 in Chicago can view a TOSHULIN POWERTURN in action, and can see for themselves why the POWERTURN isn't just a VTL. The time for Vertical Turning Centers has come.

### ***Pilsen Imports—Your Vertical Turning Machine Specialists***

*Pilsen Imports is a leading supplier of vertical turning equipment, specializing in the installation, service, and support of TOSHULIN vertical turning machines. Pilsen's highly skilled machine specialists have an average of 23 years experience in the machine tool industry. We are dedicated to providing our customers with 24/7 service and support, including overnight delivery, phone and on-site support, and comprehensive operators', programming, and maintenance training for every machine we sell.*