



Cyber CNC Machinery Sales, Inc.
S86W22400 Edgewood Avenue
Big Bend, WI 53103
Phone (262) 662-1100 Fax (262) 662-1104



Ultra Turn Series Overview

UltraTurn Series “High Performance” Machine Tool Design Features:

The Eastar.SR [Ultra-Turn Series](#) Turning Centers set a new benchmark in levels of speed, performance and accuracy. Ultra Fast Axes Acceleration and unrivaled Rapid Traverse Rates, and interfaced with a Directly Servo Driven Turret slash non-cutting times and yet deliver superb finish and accuracies. Specially designed “Wide Band Range” Spindle Motors develop a full 30 Horsepower at 50% Duty Rating beginning from just 435 RPM and generates outstanding spindle torque using a specially reinforced Multi-V Belt Pulley-Style Drive design. The number of pulley grooves on the UT200 is four (4), the number of pulley grooves on the UT250 is six (6) and eight (8) on UT300 and all four axes versions.

The massive power of the spindle drive motor is transmitted through a specially engineered Headstock and Chuck Package capable of providing up to 3.125” Bar Capacity through the Spindle Liner of the 8” 3-Jaw Hydraulic Chuck. The chuck is capable of 5,000 RPM. The maximum recommended spindle RPM is rated at 6,000 RPM when using a collet chuck or similar work-holding device capable of safe operation at these speeds. (Note: Custom power ranges packages are available as a spindle option on request.) The headstock spindle is coupled to an absolute spindle encoder and the use of super precision spindle bearings allow machine to generate superb surface finishes and repeatability due to relentless efforts to control all aspects of thermal growth. To enhance the thermal stability of the headstock area, the spindle drive motor is mounted outside of the bed casting allowing better dissipation of generated heat. This method also provides for easy access and maintenance to the entire drive and actuator assemblies.

Use of Precision Components Produce Precision Workpieces:

The brutal horsepower available for turning, acceleration and de-acceleration does not create any instability in turning accuracy. The use of heavy duty, ultra precision grade ball screws and thrust bearings afford precision sizing and mirror like finishing of work pieces. One major factor for being able to maintain this accuracy is that the major ball screw bearing housing is integrally cast into the bed and saddle components, subsequently machined in a single set-up.

Use of Absolute Encoders

The use of absolute encoders for all axes including driving our heavy duty 12 station, non-lift type machine turrets and provide a blistering speed of up to *55 Meters per Minute* (2165 IPM).

Eco-Friendly Machine Design:

The Ultra Turn Series of machines are designed to be Eco-Friendly to our world’s environment as well. NSK Model K-1 equipped ball screws are equipped with Eco-Style Lubrication Packs to help eliminate the contamination of cutting fluids with way oils. Sealed bearings, TEFC motors, and powder-coated main sheet metal surfaces all combine to reduce harmful emissions into the workplace environment. Additionally, the user-settable power conserving functions of the CNC controller all combine to add long term durability in an operator friendly workspace.



Cyber CNC Machinery Sales, Inc.
S86W22400 Edgewood Avenue
Big Bend, WI 53103
Phone (262) 662-1100 Fax (262) 662-1104

OEM Manufacturer of Ultra Turn Base Machines:

The Eastar-SR Ultra Turn machines are cast, machined, assembled and tested before shipment by our manufacturing partner Eastar-SR in Korea. Our partner is a leading machine tool supplier for many OEM machinery builders world-wide and is a quality supplier to Korean and Japanese machine tool builders and a division of KIC Company. Visit their machine tool OEM website <http://www.eastarsr.com/index.html> for further information. We also will send you a US Version Catalog in PDF format and mail.

CNC Control

Fanuc 0i-TC Control (Standard on Ultra Turn Series 2)

Fanuc 0i-Mate Control (Standard on Ultra Turn Series 1)

Mitsubishi M700 Control

These totally integrated packages offer you exceptional performance, unsurpassed reliability, ease of operation and the security of a factory backed warranty honored anywhere in the world by Fanuc and Mitsubishi Automation and Electric.

Please contact us for further information on the Eastar.SR Ultra Turn line. Thank you for considering Cyber CNC Machinery Sales for your machining needs.

Cyber CNC Machinery Sales, Inc.
Phone: (262) 662-1100 Fax: (262) 662-1104

Machine Sales:

Phil Kaye, Sales Representative
Extension 106 or Email to: phil@cybercnc.com
Rick Golner, Applications Specialist/Sales Representative
Extension 105 or Email to: rick@cybercnc.com
Dawn Hook, Sales Coordinator
Email to: dawn@cybercnc.com

Parts Sales:

Tara Markiewicz, Administrative Assistant
Extension 100 or Email to: tara@cybercnc.com

Technical Support:

Jeffrey Kale, General Manager
Extension 103 or Email to: jeff@cybercnc.com

www.cybercnc.com