

TSUGAMI MODEL C150 CNC PRECISION TURNING CENTER



The **Tsugami Model C150** Super High Precision CNC Turning Center is a systems approach to producing machined parts, and is designed to meet your needs for precision, speed, and versatility in one machine.

This high-performance CNC turning center fully answers the demands of today's manufacturing challenges:

- Flexibility
- Productivity
- High Rigidity
- Accuracy
- Reliability

Standard features of the **Tsugami C150** include a unique high speed spindle and cross slide design for enhanced "gangster tooling" capability. Also standard is a 2 pallet stocker unit, gantry loader with automatic door, work lights and coolant temperature control unit.

HIGH ACCURACY

The slides are constructed of high-quality castings that withstand the high speed machining capability of the powerful 3 HP main spindle drive. The **Tsugami C150** boasts extraordinarily accurate slide repeatability to .000040", and spindle roundness capability to 0.2 μ m. The Tsugami/Fanuc LG2 (21iTB) control is equipped with 0.1 μ m output resolution for .000010" (Ten millionths) offset capability in the inch mode.

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RELIABILITY

Straight chip drop from the machining area carries dirt, heat, chips and coolant away from the tooling and ensures reliability and efficient cutting tool utilization. A fully enclosed cutting area keeps contaminants away from machine slides, switches and electronics, effectively contains noise, and helps to protect from component failure. Fanuc Control and A/C Drives are used throughout the machine for dependable function and motion control.

OPERATOR FRIENDLY

The **Tsugami C150** is a flat bed design for superior access to the tooling and machining areas, with the control unit adjacent to the spindle for easy access during setup and change over.

AUTOMATION

The **Tsugami C150** includes built-in automation features such as a 2-pallet stocker and gantry loader.

STANDARD MACHINE SPECIFICATIONS

Speed Range of Ultra-Precision

Spindle	200-15,000 RPM
Main Spindle Horsepower	3 HP A.C.
Weight:	4,180 lbs
Work Holding:	3" chuck
Floor Space:	40" x 40" x 68" tall

STANDARD EQUIPMENT

- 2 sets of Fanuc/Tsugami manuals
- Gantry Loader
- 2-Pallet stocker
- Automatic shutter door
- Exterior work light
- Coolant temperature controller
- 4" mist duct prepared
- High pressure pump/filter
- Loader air blast
- Red/Yellow/Green patrol light
- Toolpost air blast
- 3" chuck
- Set of chuck jaws
- 2 pallets

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FANUC CONTROL FEATURES

- Linear and Circular Interpolation
- Constant Surface Speed Control
- Tool Functions - 4 Digit T Code
- Tool Compensation Sets - 16
- Miscellaneous Functions - 2 Digit M Code
- Program Memory Length - 66 Feet
- Manual and Automatic Reference Point Return
- Single Block
- Optional Skip
- Optional Stop
- Dry Run
- Machine Lock
- Single Fixed Cycles
- Multiple Fixed Cycles
- Stored Stroke Check I
- Spindle Speed Override
- Rapid Traverse Override
- Feed Rate Override
- Background Editing Function
- 7.2" LCD Display - Monochrome
- Soft Keyboard - Manual Dial Input Control
- Minimum Command Input: Metric - 0.1 μ m Inch - 0.000010"
- Tool Nose Radius Compensation
- I/O Interface
- Automatic Chamfering and Corner Rounding
- Inch/Metric Capability
- Run Hour Display and Parts Counter
- Multiple repetitive cycles
- Tool wear and geometry offsets
- Custom Macro-B

MACHINE INVESTMENT – By quotation
(F.O.B. East Granby, Connecticut)

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MACHINE OPTIONS

Transformer Other Than 200V Supply

Oil mist collector

Extra Set of Manuals

Special Paint (Enamel - supplied by customer)

Special Paint (Epoxy - supplied by customer)

Coolant Option Selections – See High Pressure Pump Systems Proposal

TERMS AND CONDITIONS

WARRANTY

- * Two year parts and service contract for Fanuc CNC System including startup assistance by Fanuc U.S.A., Inc.
 - * One year service and parts warranty.
 - * N/C programming instruction for two people at regularly scheduled schools held at Rem Sales Incorporated.
- Note: Programming School at customer location for four days has a net cost of \$3,600.00 plus expenses.

DELIVERY

Three to Four Months
F.O.B. East Granby, Connecticut

TERMS

This proposal is valid for a period not longer than 30 days from date of printing show below.
25% down with Purchase Order
Balance Net 25 days after shipment

Please note that since the machine proposed in this document is subject to prior sale, the pricing levels as quoted are subject to change and, therefore, must be confirmed at the time of order.