TC-120 5 Axis
Traveling Column Machining Center
Brand new overstock 5 axis TC-120 is available with full warranty, exceptional savings and immediate delivery. Rugged traveling column design with a large 120” x 32” x 28” travel. High torque 18,000 RPM motorized spindle features 40 HP and Big Plus 40 taper tooling. Tilting head uses a roller cam design for zero backlash and long life +/- 100 degree range. High accuracy Nikken table mounted rotary table and heavy duty tailstock included. 350 PSI through spindle coolant, 1,200 IPM rapid traverse, 24 tool ATC, chip conveyor, chip washdown system, auto door system. Siemens 840D controller with full 5 axis contouring and special compensation cycles.
Rigid traveling column design
Fixed table with 15,000 lbs. plus capacity
10” Nikken high accuracy rotary table
10” Nikken heavy duty tailstock with brake
120” x 32” x 28” travel
Automatic door system
Chip conveyor
Chip washdown system
Siemens 840D SL CNC
Full 5 axis contouring

5 Axis Tilting Head
- Roller Cam tilting head
- +/- 100 degree movement
- 40 HP motorize high torque spindle
- 18,000 RPM
- Big Plus 40 taper tooling
- 350 PSI Thru spindle coolant
# Specifications TC-120V

## Machine Capacity
- **X Travel:** 120”
- **Y Travel:** 32”
- **Z Travel:** 28”
- **B Travel:** +/- 100°
- **A Travel:** +/- 360°
- **Way Type:** Roller Linear
- **Table Load (Evenly Distributed):** 10,000 lbs.
- **Table Size:** 120” x 32”
- **T-Slots (No./Width):** 6 / .787”
- **Table Top to Floor:** 38”

## Spindle
- **Motor (Peak):** 40.0 HP
- **Spindle Speed (RPM):** 100 - 18,000 RPM
- **Spindle Torque:** 85 ft/lbs @ 850 RPM
- **Tool Type/Taper:** BIG PLUS 40 - CAT 40
- **Spindle Nose to Table (Max - Min):** 34” - 6”
- **Spindle Center to Column:** 32”

## ATC
- **Tool Storage Capacity:** 24 Station Arm Type
- **Tool Change Time:** 3.0 seconds
- **Tool Change Time Chip to Chip:** 10.0 seconds
- **Max. Tool Diameter (full):** 3.20”
- **Max. Tool Dia. (adjacent empty):** 5.5”
- **Max. Tool Weight:** 15.4 lbs.
- **Max. Tool Length:** 12”

## PERFORMANCE
- **Positioning Accuracy:** +/- 0.0002”
- **Positioning Repeatability:** +/-0.0001”
- **X Axis Drive Type:** Ballscrew
- **Rapid Traverse:** 1,200 X,Y,Z
- **Cutting Feed Rate:** .001 - 900 IPM
- **Servo Type:** AC Digital Brushless
- **Axis Thrust (Peak):** 4,955 lbs. X, Y, Z

## General Info
- **Air Pressure Requirements:** 90 PSI - 5 CFM
- **Coolant Capacity:** 150 Gallons
- **Coolant Flow:** 5 GPM
- **Power Requirements:** 80 AMP 400 - 500 VAC 3 PHASE
- **Operating Dimensions (WxDxH):** 245” x 138” x 118”
- **Machine Weight:** 42,000 lbs

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* Requires some disassembly to meet these minimum dimensions. Contact factory for more information.

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Specifications subject to change without prior notice.

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