

# MTX SERIES



**Models Available:** MTX-500, MTX-720

**RACER**  
High-Quality is our Priority

# PHANTOM MACHINE TECHNOLOGY™



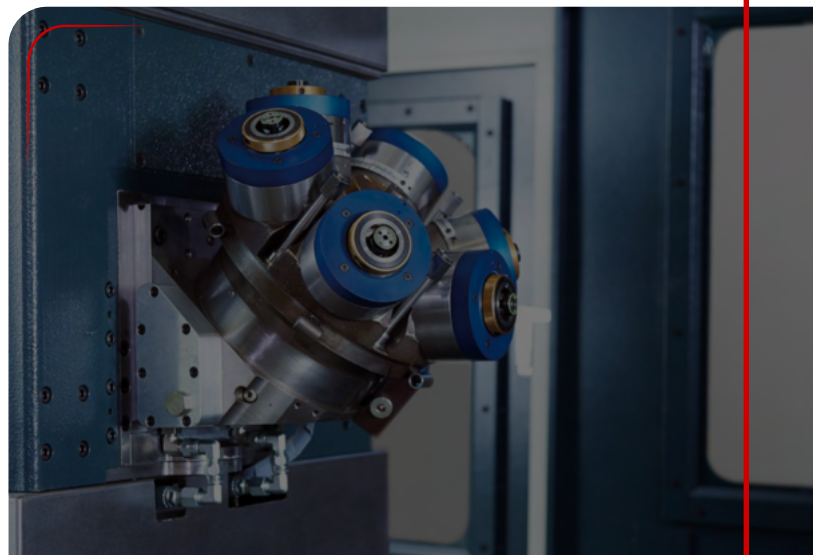
RACER Machinery International Inc. and its team of experts have developed a patent technology so advanced that it redefines all aspects of the machine tool industry. This includes everything from the production of the equipment to the end users machining time, tooling requirements, tool savings and workplace noise pollution.

## BENEFITS

- Dramatically reduced machining time.
- Astounding cutting performance.
- Versatility in performance.
- Remarkable reduction in noise pollution.
- Extensive reduction in tooling costs; increase in tooling life.
- Easy setup and use.
- Flexibility in production capacity.
- Rigid construction assures optimal rigidity and stability during heavy cutting.
- Harmonized assembly allows for high quality finishing.
- Environmentally friendly manufacturing process.

## CAPABILITIES

- Spindle Speeds up to 24,000 rpm.
- X travel up to 20 meters.
- Bore sizes up to 610 mm.
- Multi axis simultaneous controlled movement.
- Taking heavy duty machining to the next level.
- Each machine has a dynamic and static accuracy test.
- Automatic tool changer up to 240 tools.



# COMPREHENSIVE SUPPORT

RACER provides the highest of level of training, service, and support in the industry. **Training** includes three days of **programming/applications** training at a local university. Additionally, the customer's maintenance personnel are invited for the last week of assembly and run off at our plant.

After **installation** at the customer's facility, RACER service personnel and engineers, work with three groups of customer personnel, namely, maintenance, operators and high level engineers to ensure understanding of the equipment to make in house **support** as effective as possible.

*Technical support is available at 519-498-6118 .  
Both our local dealer and our internal field service group are available to assist when required.*

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Training



Installation



Applications



Service and  
Support

# SIEMENS

## SINUMERIK ONE CONTROL



SINUMERIK ONE CONTROL enables a consistent “digital-first” strategy.

Key manufacturing processes are always simulated first using digital twins; in other words, detailed virtual images of the controls and machining.

The result is faster communication with customers about deadlines, more accurate planning and job preparation, and increased productivity, even with smaller batch sizes and an increasing range of variants.

- 19inch TFT Colour Flat Screen
- Keyboard Unit with Full Keyboard,
- Key-operated Switch and USB and Ethernet interface
- 5 Axis Transformation Machining and Tilted
- Workplane Function
- Machining Package 5 Axes Contains
- Multi-axis Interpolation
- ShopMill
- Residual Material Detection and Machining for Contour
- Pockets and Stock Removal
- 3D Simulation (Finished Part)
- Simultaneous Recording
- Advanced Surface Motion Control
- Additional HMI User Memory on Compact Flash Card of the
- NCU
- 3D Tool Radius Compensation
- Measurement Cycle for
- Improving Accuracy of Rotation & Swiveling Axes (Measure
- Kinematics)
- Spline Interpolation (A, B & C Splines)
- TANSMIT/Cylinder Surface Transformation
- Measuring Cycles for Drilling/Milling
- Collision Avoidance



**SIEMENS | RACER**

SINUMERIK ONE LAUNCH PARTNER IN NORTHAMERICA

# Specifications

Feature/Model	MTX-500	MTX-720
<b>Machine Capacity</b>		
Max. Turning Diameter	500	720
Max. Machinable Length	Up to 6000 mm	
<b>Tool Spindle</b>		
RPM	15000	
KW	30	60
X1 Axis (mm)	620	840
Y1 Axis (mm)	540	760
Z1 Axis (mm)	Up to 6000	
B Axis	+/- 120	
Tool Holder	HSK-63T	
<b>Turning Spindle RPM</b>	5000	3000
KW	30	40
Bar Capacity (mm)	65	102
Chuck Diameter (mm)	254	304.8
Tool Change Capacity	60	80
<b>Lower Turret</b>		
Number Tools	12	
Live Tools	Up to 12	
Speed RPM	3000	
X2 (mm)	220	
Z2 (mm)	Up to 6000	
<b>Tailstock</b>		
Travel (mm)	Up to 6000	
<b>Accuracy</b>		
Linear Positioning (mm)	0.0002"	
Linear Repeatability (mm)	0.00012"	
Rotational Positioning	8 Arcsecs	
Rotational Repeatability	4 Arcsecs	
<b>Dynamic Machine Rigidity</b>		
Axial N/μm	350	
Radial N/μm	275	



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