

FHX SERIES



Models Available:

FHX 500/FHX500A, FHX 800, FHX 1250, FHX 1600

RACER
High-Quality is our Priority

PHANTOM MACHINE TECHNOLOGY™



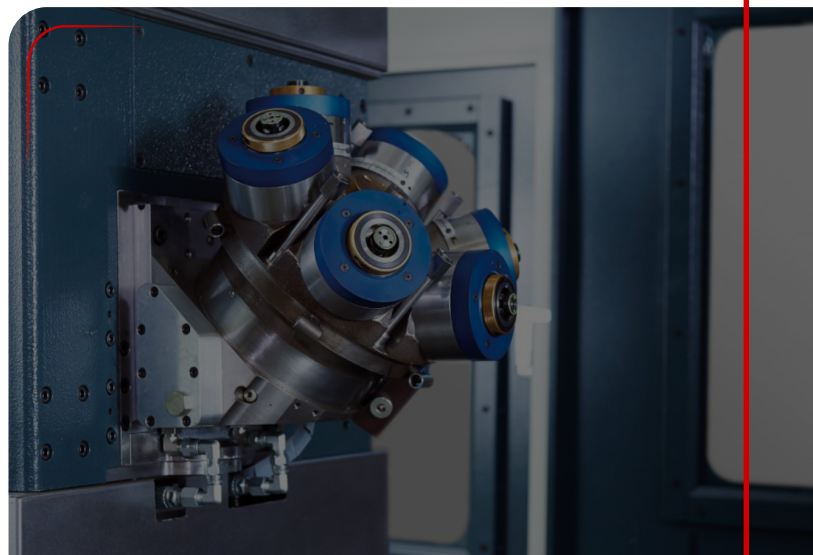
RACER Machinery International Inc. and its team of experts have developed a patent technology so advanced that it redefines all aspects of the machine tool industry. This includes everything from the production of the equipment to the end users machining time, tooling requirements, tool savings and workplace 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)
- TRANSMIT/Cylinder Surface Transformation
- Measuring Cycles for Drilling/Milling
- Collision Avoidance



SIEMENS | **RACER**

SINUMERIK ONE LAUNCH PARTNER IN NORTHAMERICA

Specifications

	FIXED COLUMN	MOVING COLUMN T-STYLE		
TABLE	FHX 500/FHX500A	FHX 800	FHX 1250	FHX 1600
Table Size & Number (mm)	500 x 500	800 x 800	1250 x 1000	1600 x 1320
Travel X	650	1600	2200	3000
Travel Y	560	1230	1800	2200
Travel Z	560	1020	1200	1420
Screw size (Size x Pitch mm)	18 x 100 x 5			
Max. Table Load (kg)	400	2500	5000	8000
Max. Workpiece Size (W x H mm)	Ø630 x 610			
Spindle Center to Table surface (mm)	50			
Spindle Nose to Table Center (mm)	100			
Table Index (deg)	1° (0.001°)			
Method of Pallet Changer	-			
SPINDLE				
Spindle Taper	ISO40	CAT50/HSKA100		
Spindle Inner Diameter (mm)	Ø70			
Spindle Speed (rpm) Belt	8000			
Spindle Speed (rpm) Gear	8000	6000		
Spindle Speed (rpm) Built-in	15000			
Main Motor (con/30 min Kw)	15-Nov			
AXIS SERVO MOTOR				
Rapid Feed Rate (X/Y/Z m/min)	30/24/30	41/41/41		
Feed Rate (X/Y/Z/ m/min)	10			
X Axis Rated Torque (Nm)	10			
Y Axis Rated Torque (Nm)	10			
Z Axis Rated Torque (Nm)	10			
B Axis Rated Torque (Nm)	10			
B Axis Max. Rpm	16.6			
AUTO TOOL CHANGER				
ATC Type	CHAIN	CHAIN/MATRIX		
Cam Type	ARM			
Tool Selection (Bi-direction)	RANDOM			
Tool Storage Capacity (PCs)	40	62/88/128/160/240 } 120/180/240/360		
Max. Tool Diameter (mm)	Ø76			
Max. Tool Length	300			
Max. Tool Weight	8			
MISCELLANEOUS				
Air Requirement (Kg/cm2)	6			
Hydraulic Requirement (Kg/cm2, L)	35, 60L			
Voltage	220			
Power Requirement (KVA)	40			
Coolant Tank Capacity (L)	300			
Machine Weight (KGs)	6500	26000	38000	66000
Machine Height (mm)	2425			
Floor Space (L x W mm)	3055 x 4560			
Packing Size (L x W x H mm)	2200 x 2900 x 2500			



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