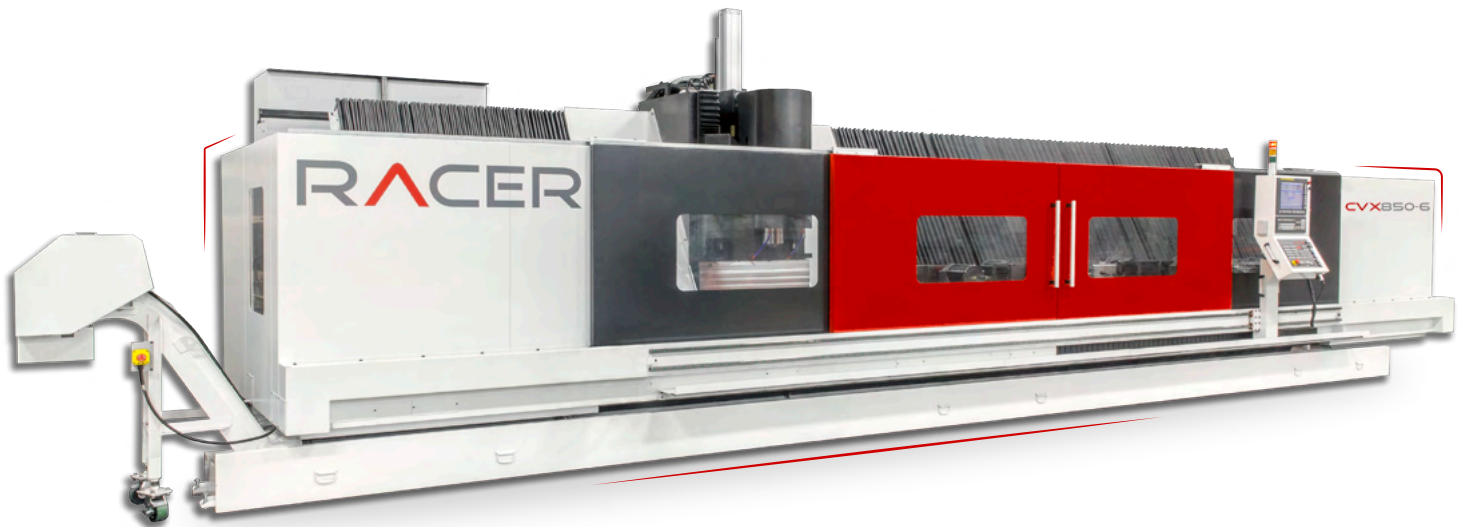


CVX SERIES

CNC Traveling Column Vertical
Multiprocess Machining



Models available:

CVX 700, CVX 850, CVX 1000, up to 10 meters X-Travel or Racer Turnkey solution

RACER

High-Quality is our Priority

PHANTOM MACHINE TECHNOLOGY™



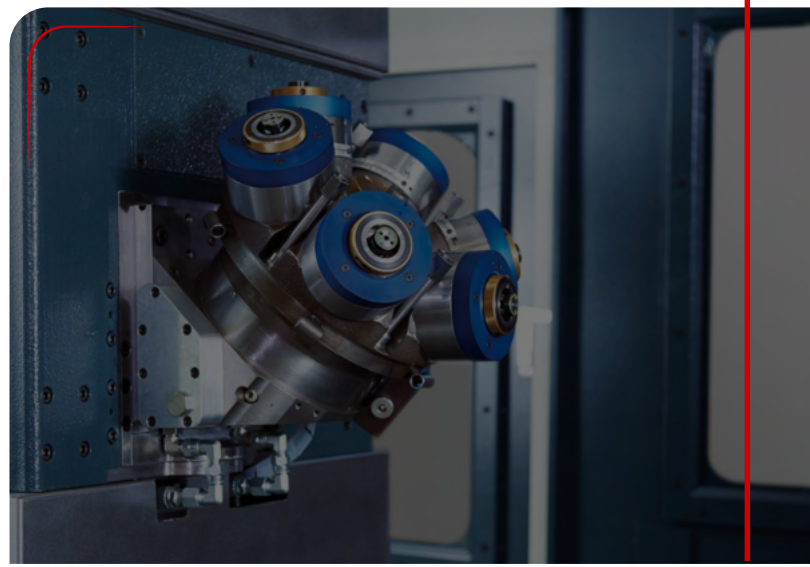
RACER Machinery International Inc. and its team of experts have developed a patent technology so advanced that it redefines all aspects of the machine tool industry. This includes everything from the production of the equipment to the end users machining time, tooling requirements, tool savings and workplace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

RACER
High-Quality is our Priority



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

	MOVING COLUMN		
MODEL	CVX 700	CVX 850	CVX 1000
TABLE			
Table Width (mm)	700	850	1000
Table Length (mm)	upto 10 meter		
Travel Ranges (X mm)	upto 10 meter		
Travel Ranges (Y mm)	710	860	1010
Travel Ranges (Z mm)	800	1000	1200
Max. Table Load (kg/M2)	2000	2000	2000
Spindle Nose to Table Surface (Vertical) (mm)	150~950	150~1150	150~1350
T-slot (W x D x N mm)	18 x 125 x 5		
SPINDLE			
Spindle Taper	CAT-50, BBT50, HSKA63		CAT-50, BBT-50, HSKA100
Spindle Center to Column (mm)	780	850	1000
Spindle Speed (rpm)	8000 , 6000(2sp), 15000		8000 , 6000(2sp), 18000
Draw Bar Force (kgf)	1800 ± 100		
Main Motor (con/30min kw)	19 / 23		
AXIS SERVOMOTORS			
Rapid Feed Rate (X/Y/Z m/min)	40 / 40 / 40	30 / 25 / 25	30 / 25 / 25
Feed Rate (X/Y/Z m/min)	18	10	
TOOL MAGAZINE			
ATC Type	PLATE		
CAM Type	DAUL ARM		
Tool Selection (Bi-direction)	RANDOM		
Tool Storage Capacity (pcs)	32(40/60)		
Max. Tool Diameter (mm)	Ø125		
Max. Tool Diameter Without Adjacent tools(mm)	Ø250		
Max. Tool Length	350		
Max. Tool Weight (kg)	18		
ACCURACY			
Positioning XYZ linear axis (mm) per meter	0.05		
Repeatability XYZ linear axis (mm) per meter	0.0025		
MISCELLANEOUS			
Air Requirement (kg/cm ²)	6		
Voltage	460/3 phase		
Power Requirement (KVA)	40		
Coolant Tank Capacity (L)	1500 / 1750 / 2000 / 2250 / 2500 / 2750 / 3000		
Controller	SINUMERIK ONE (828 / 840sl opt)		



FOLLOW US ON SOCIAL MEDIA!



YouTube Channel



LinkedIn



Facebook



Twitter

RACER

High-Quality is our Priority

www.racerinternational.com