

VMX SERIES

VMX159 / VMX179 / VMX209



Models available: VMX159 / VMX179 / VMX209
Maintaining efficiency without sacrificing rigidity

RACER

High-Quality is our Priority

VMX SERIES

6 roller support on X / Z axis

for added support, each roller set is internally preloaded diagonally in a cross combination. Six sets of rollers are used in each roller pack.



Developed using the RACER patented “Phantom Machine Technology”, the MTX series, these machines are thermally stable, offering precision results over the long haul.

A comprehensive service

TRAINING, INSTALLATION, APPLICATIONS, SERVICE AND SUPPORT

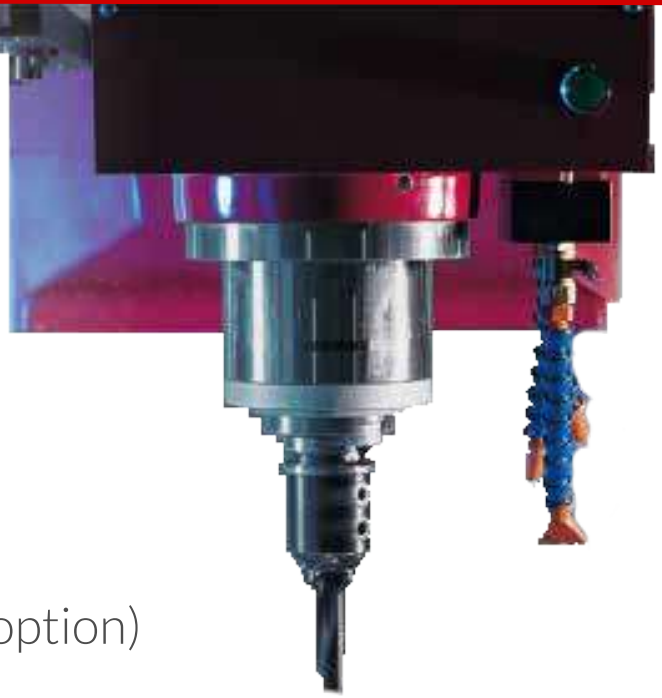
RACER provides the highest of level of training, service, and support in the industry. **Training** includes three days of programming/applications training at a local university. Additionally, the customers maintenance personnel are invited for the last week of assembly and run off at our plant. **After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

* Other charges may apply relating to installation, training, service and support.

Features

VMX159 / VMX179 / VMX209

- ISO40 (ISO50) spindle taper
- Spindle speed 8,000 rpm
- 10,000 rpm (option)
- Direct drive 12,000/15,000 rpm (option)
- X, Y & Z axis linear way



Extra-wide machine base and column

The extra large machine base and column are both size 1,100 mm in width. The oversized machine structure features excellent damping coefficient and stable metallic stability.

Low friction, high efficiency

The Racer VMX series machines adopt heavy duty roller linear guide ways instead of steel ball ones. Combining the benefit of box and linear guide ways, the machine's dynamic motion control features high sensitivity with heavy loading.

Power Spindles

From high speed to high torque, from power milling to small radius interpolation, Racer offers a wide range spindle specifications to choose from Plus, the peripheral functions such as coolant through spindle and coolant curtain, the VMX series machines are capable of handling all cutting conditions you need.



CAT50 Gear



CAT40 Direct Drive



CAT40 Belt



Built-in

Automatic Tool Changer

Magazine: Armless Type

Capacity: 20 tools

The armless carousel type tool magazine features simple construction, easy maintenance and trouble-free operations.



Magazine: Arm Type

Capacity: 24/30/60 tools

The arm type tool magazine is activated by an electric motor transmitted via a U-Cam mechanism, featuring stable and rapid tool change.



Standard accessories:

- Air blast through spindle
- Air blast for workpiece (nose)
- Coolant flushing system
- 3 axis telescopic covers
- Full splash guard
- Centralized automatic lubrication system
- Working lamp
- Operation status light
- Cooling system
- Air and water spray gun
- MPG handwheel
- Heat exchanger
- RS-232 interface
- Rigid tapping
- Spindle oil cooler
- Adjusting tools and box
- Leveling bolts and pads
- Operation and programming manual

Siemens

SINUMERIK ONE Control



It enables a consistent “**digital-first**” **strategy**. This means, that key manufacturing processes (e.g. programming, job preparation or process optimization) are always simulated, **first using digital twins**. In other words, on 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 falling batch sizes and an increasing range of variants.

SIEMENS | RACER

A comprehensive service

TRAINING, INSTALLATION, APPLICATIONS, SERVICE AND 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 customers maintenance personnel are invited for the last week of assembly and run off at our plant. **After installation** at the customers 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.

* Other charges may apply relating to installation, training, service and support.

Specifications

Specifications			
Model	VMX 159	VMX 179	VMX 209
Table			
Table size(mm)	1700x850	2000x850	2200x850
Travel Ranges (X x Y x Z mm)	1500x900x850	1700x900x850	2000x900x850
Max. Table Load(Kgs)	2000	2500	3000
Spindle Nose to Table Surface (mm)	100~950	100~950	100~950
T-slot (Width x Distance x Number mm)	18x150x5	18x150x5	18x150x5
Spindle			
Distance Between Column (mm)	ISO40	ISO50	
Spindle Inner Diameter (mm)	Ø70	Ø100	
Spindle Center to Column (mm)	760	760	
Spindle Speed (Rpm) Belt	40-8000	40-6000 (8000)	
Spindle Speed (Rpm) Gear	L40-2000, H2001-8000	L40-1500, H1501-6000	
Spindle Speed (Rpm) Direct-Drive	12000 (15000)	10000	
Draw Bar Force (kgf)	950	2000	
Main Motor (con/30 min Kw)	11/15	15 / 18,5	15 / 18,5
Feed Rate			
Rapid Feed Rate (X/Y/Z m/min)	24/24/12	24/24/12	24/24/12
Feed Rate (X/Y/Z mm/min)	10000	10000	10000
Auto Tool Changer			
	ISO40	ISO50	
ATC Type	PLATE / DISK	DISK / CHAIN	
Cam Type	GENOVA/DAUL ARM	DAUL ARM	
Tool Selection (Bi-direction)	ABSOLUTE/RANDOM	RANDOM	
Tool Storage Capacity (PC's)	20/24	24-32 (40)	
Max. Tool Diameter (mm)	Ø100 / Ø90	Ø105 / Ø127	
Max. Tool Length (mm), Weight (kgs)	250.8	350, 20	
Miscellaneous			
Air Requiement (Kg/cm ²)		6	
Voltage		220V, 3Ph, 50/60Hz	
Power Requirement (KVA)		40	
Coolant Tnk Capcity (L)		700	
Machine Weight (Kgs)	14000	15000	16000
Machine Height (mm)	3200	3200	3200
Floor Space (L x W mm)	4050x2980	4450x2980	5000x2980
Packing Size (L x W x H mm)	4350x3260x3550	4850x3260x3550	5300x3250x3550