

Vyrik

CNC Router 1545 4.5KW 3-Axis
Servo Motor 1500x4500cm

VRO-45-SV-DE-TT



Specifications

Model Number	VRO-45-SV-DE-TT
Working Area	1500x4500mm (X, Y axis)
Z Clearance	20cm
Spindle	Water-Cooled Spindle 4.5KW, 24000 rpm
Inverter	4.5KW Inverter
Transmission Method (X, Y axis)	Pinion and Rack
Transmission Method (Z axis)	Screw Driven
Motors	Servo Motors
Limit Switch	Optical Limit Switches
Bed	T-Slot Table
Dust Collector	3KW
Safety	Emergency Stop (x3) / Water Flow Sensor / Soft Limits / Hard Limits
Software	Illustrator / Inkscape / Aspire / Solid Works / ArtCAM
System	Windows 10 / Windows 11
Communication	USB-Disk
Input Voltage	AC220 $\pm$ 10% / 50Hz
Warranty	One year

Accessories Included

- Advanced Lubrication System
- Dust Collector
- Z-Axis Tool Touch Probe
- Set of Bit



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Features

4.5KW Water-Cooled Spindle

High performance water-cooled spindle for high performance and continuous operation.

- ◀ High performance: 4.5KW 24000rpm
- ◀ Water Cooled: for consistent spindle performance
- ◀ ER Collet: for wide tool compatibility

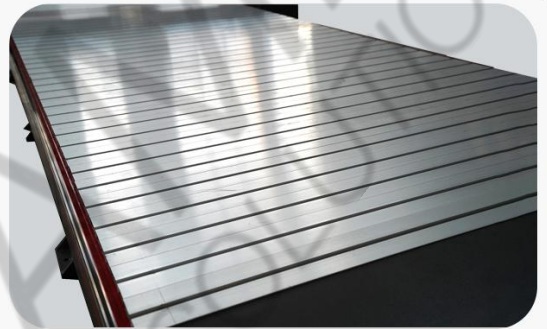
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Features

150x450cm T-Slot Table

150 × 450 cm T-slot bed offers a large work area with secure clamping, stable support, and flexible setup for accurate machining.

- ◀ Allows secure and reliable workpiece clamping
- ◀ Offers flexible positioning for different setups
- ◀ Provides stable support during machining



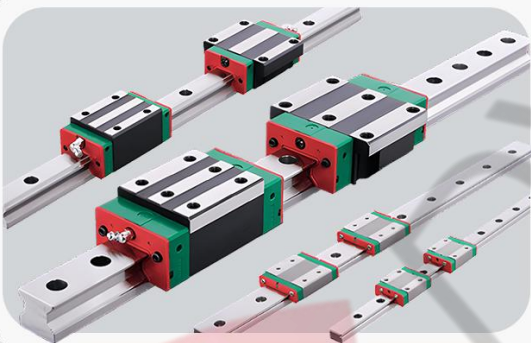
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Features

High precision guiding system

High-precision linear guide system ensures smooth movement, stable travel, and accurate positioning across the machine axes.

- ◀ Smooth and stable axis movement
- ◀ Supports accurate machine travel
- ◀ Improves rigidity and positioning performance



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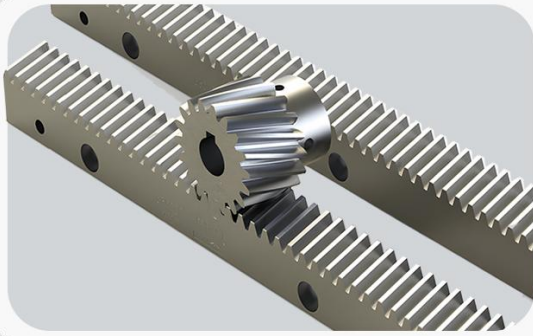
Features

Servo motor drive system

Servo motor system provides precise motion control, fast response, and stable performance for accurate machine operation.

- ◀ Higher precision than standard stepper systems
- ◀ Faster response and smoother motion
- ◀ Improved positioning accuracy





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Features

Rack and Pinion Drive System

Pinion and rack drive system designed for smooth, fast, and reliable axis movement, especially suited for large CNC machines requiring stable performance over long travel distances.

- ◀ Maintains stable motion at high speeds
- ◀ Strong power transmission for heavy-duty work

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Features

Optical Limit Switches

Optical limit switches provide fast and precise non-contact position sensing, helping improve motion control accuracy while reducing wear in repeated machine operation.

- ◀ Fast and accurate signal response
- ◀ Faster response and smoother motion
- ◀ Improved positioning accuracy



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Features

Advanced Lubrication System

Lubrication system designed to supply lubricant to critical moving components, helping reduce wear, improve motion smoothness, and support reliable long-term machine operation.

- ◀ Delivers lubricant to key moving parts
- ◀ Contributes to longer component life
- ◀ Simplifies regular machine maintenance



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Features

Dust Collector

Dust collector system designed to remove debris and dust during operation for a cleaner working area and better machine performance.

- ◀ Cleaner operation: reduces dust buildup during jobs
- ◀ Machine protection: helps limit dust around components
- ◀ Improved workflow: supports a cleaner and more efficient process



