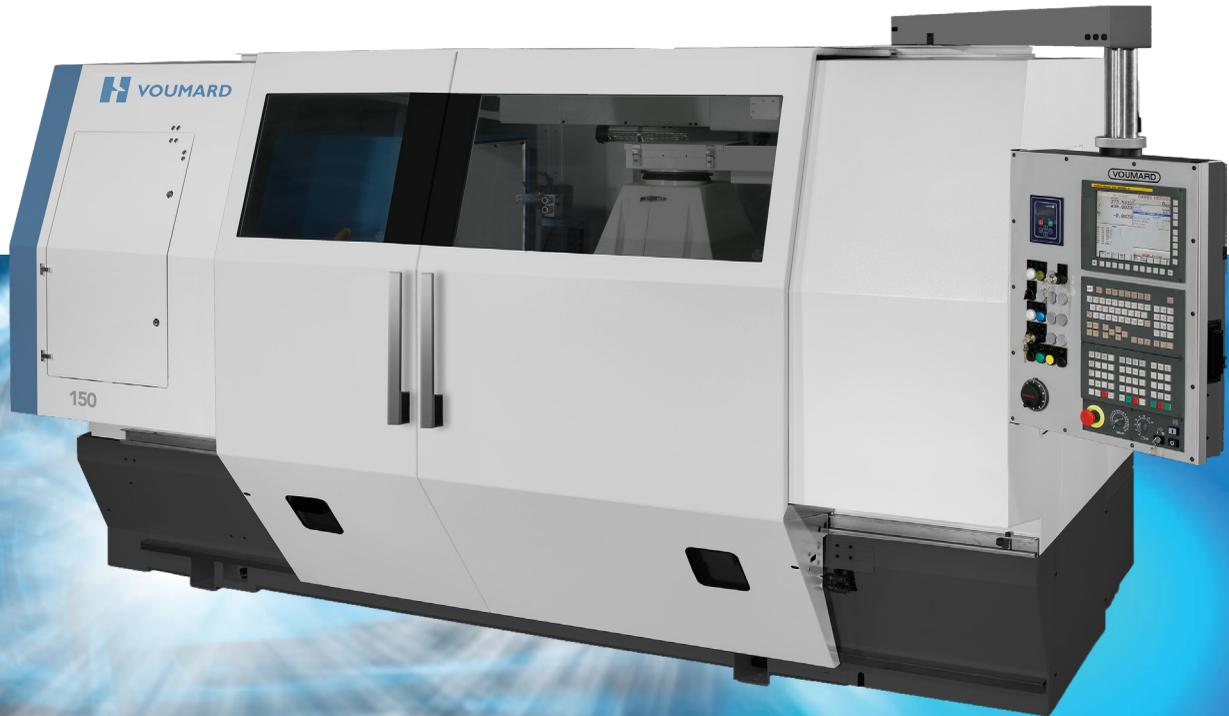




VOUMARD VM 150 Series



High Productivity and Flexibility Solutions

Universal ID/OD grinding tool
for medium to large sized work pieces

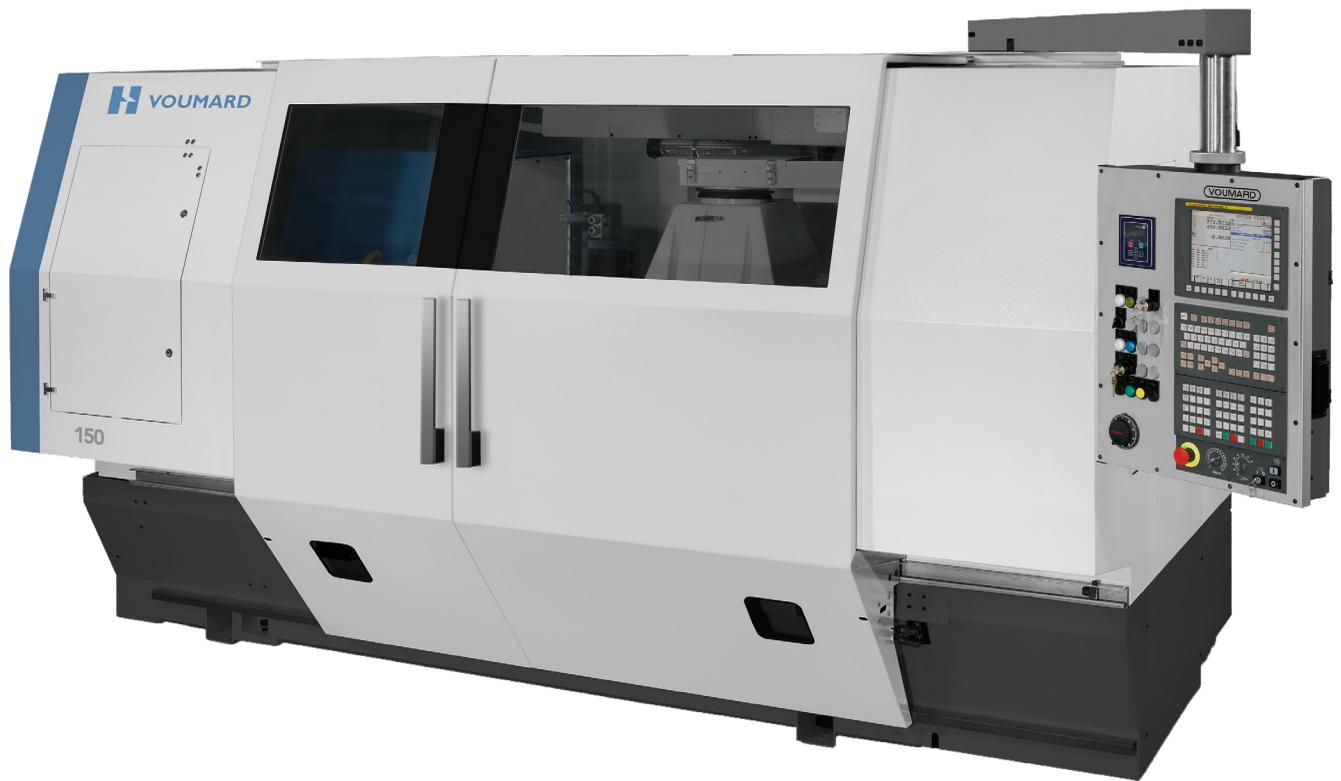


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VOUMARD VM 150

Latest Technology as Standard –
Highest Precision for all Materials and Industries



The VOUMARD VM 150 is a multi-purpose tool for ID/OD grinding operations with medium to large sized work pieces in small batches as well as in volume production. While short work pieces can be ground directly when clamped in the chuck, a variety of manual and automatic steady rests is available for grinding operations with long shafts.

Typical applications are grinding operations with parts for:

- Hydraulic components
- Spindles
- Bearings
- Gears

Equipment:

- Four position NC indexing spindle turret permits multiple ID/OD grinding operations with different grinding wheels at the same work piece and combines maximum flexibility with highest grinding accuracy
- High precision X- and Z-axis with large travel distances for maximum flexibility

unloading large work pieces

- Optional work head spindle indexing (C-axis)
- Various dressing tools for conventional and CBN grinding wheels

Loading/unloading options

- Manual loading/unloading
- Automatic loading/unloading with double arm device
- Gantry loader
- Robot

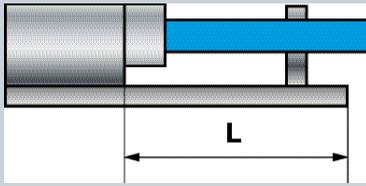
Control:

- Fanuc CNC with proprietary VOUMARD graphical user interface
- Offline programming tool on external computer minimizes downtime when creating new grinding sequences
- Remote diagnosis system for quick trouble shooting

- Manual or numerical controlled B-axis for angular swivel of the workhead for taper grinding and easier access when loading and



Grinding of short work pieces in a chuck, applicable on every machine model



Grinding of long work pieces in a steady rest



Working area with clamped work piece and grinding spindle

3 versions are available:

Machine version	Length L	B axis swivel range
L7	700	max. 15°
L13	1300	max. 10°
L15	1500	max. 10°

VOUMARD VM 150 – The Main Technical Characteristics

Grinding capacities	internal diameter, up to	200 mm + grinding wheel Ø	
	max. external diameter	260 mm - grinding wheel Ø	
	max. recommended depth	250 mm	
Chuck max. dimensions (swing diameter)	a) in standard splash guard	380 mm	
	b) over workhead table	350 mm	
	c) in the gap	500 mm	
Chucking equipment, according to model	programmable rotation speed	0 ÷ 850 min ⁻¹ or 560 min ⁻¹	
	max. compounded weight	200 or 250 daN/ 100 mm	
	axial clamping force	750 or 1200 daN	
X and Z axes	useable X travel	230 mm	
	useable Z travel	500 mm	
	resolution	0.1 µm	
	max. traverse speed	X = 10 m min ⁻¹ / Z = 20 m min ⁻¹	
Centre height	over workhead table	200 mm	
Floor space	L x D x H	version L7	3500 x 2000 x 2150 mm
		version L13	4450 x 2000 x 2150 mm
		version L15	4450 x 2000 x 2150 mm
Weight	According to version	5000 to 6000 kg	

All informations contained in this document are subject to change without notice

Internal and External Grinding Perfection

VOUMARD high productivity grinding machines are designed for flexible ID and OD grinding operations. Highly accurate chucks and centerless work holding solutions allow for processing work pieces of almost every geometry and performing multiple internal and external grinding operations in a single clamping.

The VOUMARD machine range provides every customer with both high productivity and high flexibility grinding solutions. Our machines are appreciated worldwide and integrated in production

lines or manufacturing workshops of market-leading companies in major industry segments like automotive, aerospace, bearing, tooling and spindle manufacturing.

VOUMARD systems are suitable for a large variety of parts manufactured in large batches (like diesel common rail and hydraulics-pneumatics components) or low quantities (like high precision bearings and machines spindles components).

HARDINGE COMPANIES WORLDWIDE

Over the years, The Hardinge Group™ steadily diversified both its product offerings and operations. Today, the company has grown into a globally diversified player with manufacturing operations in North America, Europe and Asia. In addition to designing and building turning centers, and collets, Hardinge is a world leader in grinding solutions with the addition of the Kellenberger, Jones & Shipman, Hauser, Tschudin, Usach and Voumard brands to the Hardinge family. The company also designs and manufactures Bridgeport machining centers and other industrial products for a wide range of material cutting, turnkey automation and workholding needs.

Expect more from your Hardinge products. Choose Hardinge precision and reliability for increased productivity and value!

Call us today, we've got your answer.



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