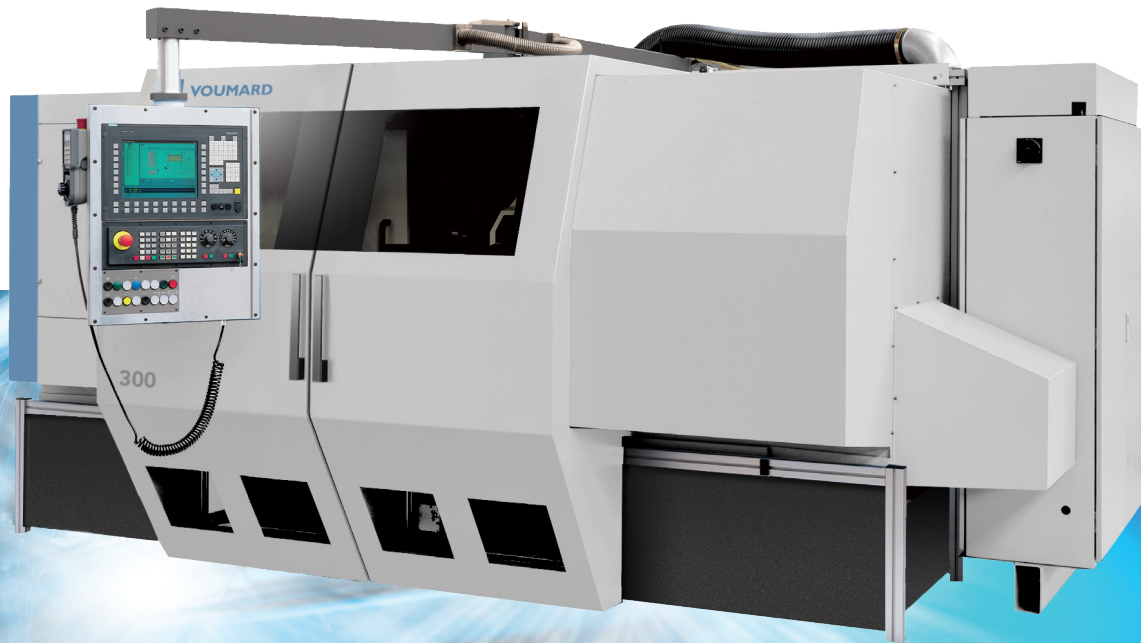




VOUMARD  
VM 300 Series



High Productivity and Flexibility Solutions

Universal ID/OD grinding machine  
for large sized work pieces



[kellenberger.com](http://kellenberger.com)

 VOUMARD

## VOUMARD VM 300

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



The VOUMARD VM 300 is a universal ID/OD grinding tool specifically designed for machining work pieces with large diameters and/or lengths. The large working space in combination with the extended travelling distance of the spindle head and the optional U-axis provide highest loading capacity and process flexibility. 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 on parts for:

- Hydraulic components
- Spindles
- Bearings
- Gears

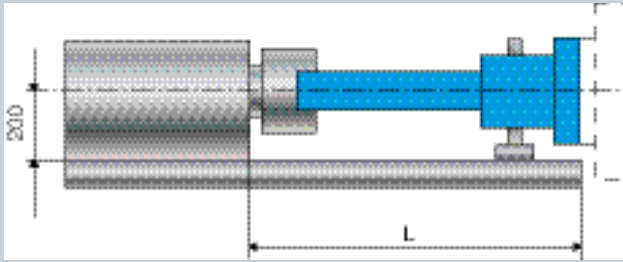
Equipment:

- 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

- Optional U-axis for extended OD grinding range
- High precision X- and Z-axis with large travel distances for maximum flexibility
- Manual or numerical controlled B-axis for angular swivel of the workhead for taper grinding and easier access when loading and unloading large work pieces
- Optional work head spindle indexing (C-axis)
- Various dressing tools for conventional and CBN grinding wheels, including a radius dresser for high precision grinding of circular profiles
- Heavy duty work head spindle with a load capacity of up to 500kg

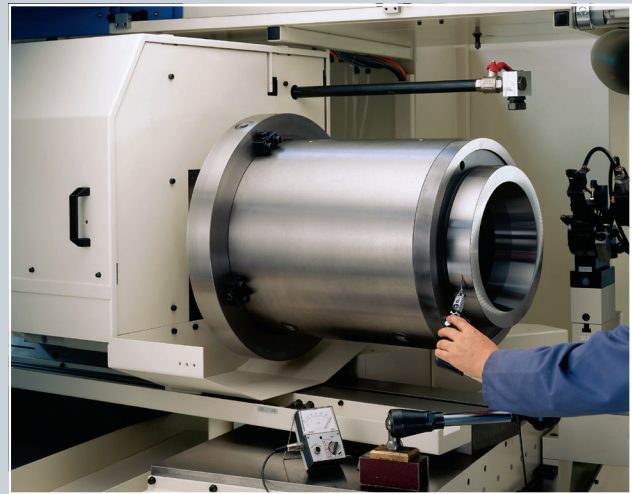
Control:

- Siemens 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



2 versions are available:

Machine version	Length L	B axis swivel range
L7	750	max. 20°
L13	1300	max. 15°



Grinding of large spindle housings

## VOUMARD VM 300 – The Main Technical Characteristics

Max. external diameter of the chuck or work piece	Over the workhead support, up to In the gap	550 mm 830 mm	
Max. work piece length		See table above	
Grinding capacities	Internal diameter; up to	500 mm	
	Max. external dia. over the workhead support	550 mm	
	Max. external dia. in the gap	640 mm	
	Max. O/D grinding wheel diameter	250 mm (according to spindle type)	
	Max. recommended depth	300 mm (> 300 mm upon request)	
Chucking equipment, according to version	Max. compounded weight, up to Programmable rotation speed	500 kg According to workhead type	
X and Z axes	X axis travel	300 mm	
	Z axis travel	version 1 = 600 mm version 2 = 1000 mm	
	Resolution	0.1 µm	
	Max. traverse speed	20 m min <sup>-1</sup>	
Centre height	Over the workhead support	200 or 300 mm	
Dimensions of the machine	L x D x H	version L7	5518 x 3965 x 2179 mm
		version L13	6474 x 4115 x 2179 mm
Weight	According to version	from 6000 to 8000 kg	

All information 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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## HARDINGE GRINDING GROUP

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