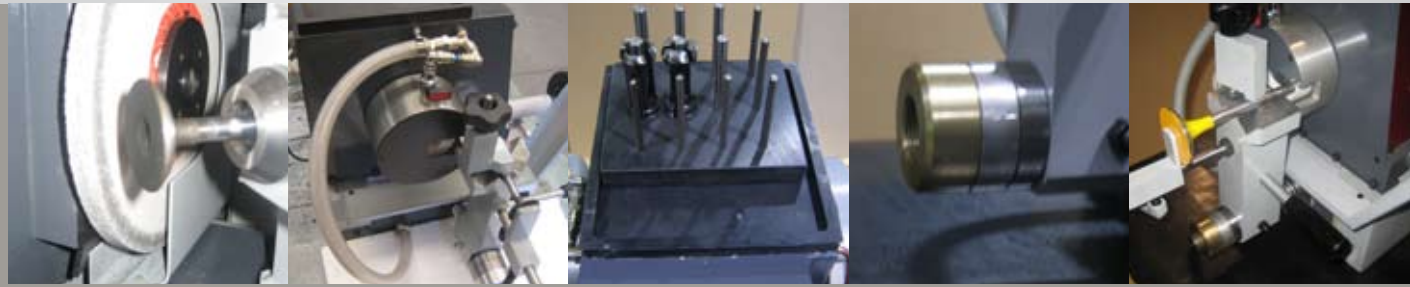


# VG - VALVE GRINDING MACHINES

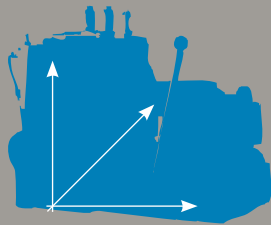


## VG - VALVE GRINDING MACHINES

	VG19	VGX	VG28
<b>WORKING CAPACITY</b>			
Min. and max. valve stem diameter admitted	4-16 mm	6-16 mm	6-19 mm (25 mm AZ869)
Max. valve head dia. admitted	90 mm	90 mm	150 mm
<b>GEOMETRIC FEATURES</b>			
Grinding angle	15°-60°	15°-60°	0°-75°
Grinding wheel diameter	150 mm	180 mm	180 mm
Diameter of the straight-cup grinding wheel	-	80 mm	150 mm
<b>SPEEDS AND POWERS</b>			
Grinding wheel rotation speed	2800 RPM	0-2800 RPM (variabile)	2800 RPM
Spindle motor speed	0-55 RPM	0-55 RPM (variabile)	0-120 RPM (variabile)
Grinding wheel motor power	0,18 KW	0,18 KW	0,55 KW
Spindle motor power	0,12 KW	0,11 KW	0,12 KW
Pump power	0,005 KW	0,005 KW	0,6 KW

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### SPECIFICATIONS >>>



	VG19	VGX	VG28
Dimensions without packing	800x780x670 mm	820x780x670 mm	1300x750x700 mm
Height with base	1180 mm	1100 mm	1210 mm
Dimensions with packing	800x780x670 mm	800x780x670 mm	1200x850x710 mm
Weight	70 kg	70 kg	120 kg
Weight with packing	75 kg	75 kg	128 kg

### DIMENSIONS AND WEIGHTS >>>



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VG19  
VGX  
VG28

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Subject to change, as of JULY 2010



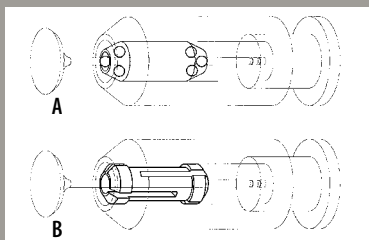


**VGX - NEW MODEL**

- Variable rotation speed of valve
- Variable speed of grinding wheel
- Valve headstock adjustment from 15 to 60
- Valve clamping by a collet
- V-ways and valve stop for repeatable valve stem butt
- Coolant flow adjusting by valve

The machine can be supplied with two different valve clamping system:

- A: Optional ball chucks available
- B: Precision collet available for each stem diameter of valve stem diameter



**VG/2**

**VG19**

The AZ VG 19 Valve refacing machine is designed for several uses. Besides refacing the valve head, it can also recondition the valve stem. By means of special subsidiary tools, it can may also reface rocker shoes.

The machine is easy to operate, has a stiff construction and is the answer to all precision requirements. The longitudinal and transverse carriage slide on dovetails guides, which make it possible to adjust the clearance. The transverse carriage - serving to approach the workpiece - is driven by the handwheel, whereas the longitudinal carriage - serving to feed the workpiece - is driven by rod with adjustable stroke. The valve headstock has an adjustment range from 30° to 60°. The valve is clamped in the head stock by

means of expansible collets which ensure maximum stiffness and best centering of the valve and high precision operations. The standard machine is equipped with coolant attachment with gear pump and settling tank, incorporated in the machine base.

**VG28**

The VG28 valve refacing machine has been designed to meet all needs of refacing valve head and reconditioning valve stem. By means of a special device it is possible to reface stems up to 25 mm diam. The collets chuck continuous revolutions variation and the rapid clamping device enable a quick and precise operating execution. The swivel plate ensures a high valve facing precision. The coolant system sprays the grinding fluid on both grinding wheels.



**VG/3**

VG19  
VGX  
VG28



EQUIPMENTS >>> AZ392 AZ411 AZ865 AZ866 From AZ659 to AZ666 AZ667 AZ668 VG28 >> From AZ645 to AZ653 From AZ654 to AZ657 AZ869 AZ487



**VG19 STANDARD**

- Coolant system
- Collet from 6 to 9 mm. dia.
- Collet from 9 to 12 mm. dia.
- Collet from 12 to 16 mm. dia.
- Support for diamond holder (diamond excluded)
- Grinding wheel 150x12x25 mm. dia.
- Service tools
- Operating manual

**OPTIONAL**

- AZ392 5 liters of special cutting oil
- AZ411 Diamond and rest 0,40 kt
- AZ659 Collet for short valves 4 mm diameter
- AZ660 Collet for short valves 5 mm diameter
- AZ661 Collet for short valves 5,5 mm diameter
- AZ662 Collet for short valves 6 mm. dia.
- AZ663 Collet for short valves 7 mm. dia.
- AZ664 Collet for short valves 8mm dia.
- AZ665 Collet for short valves 9mm dia.
- AZ666 Collet for short valves 10 mm. dia.
- AZ865 Grinding rockers arm device
- AZ866 Steel sheet base

**VGX STANDARD**

- Variable speed of valve spindle
- Adjustable grinding wheel speed system
- Grinding wheel 180x12x32 mm
- Cup grinding wheel 80x30x15mm
- Support for diamond holder (diamond excluded)
- Support for grinding valve's stem
- Coolant system
- Service tools
- Operating manual

**RECOMMENDED**

- AZ667 3 collets system for valves with dia. 6-16 mm.

AZ668 Ball chuck system for valves dia. 4 to 14 mm (2 pieces)

**OPTIONAL**

- AZ392 5 liters of special cutting oil
- AZ411 Diamond and rest 0,40 kt
- AZ659 Collet for short valves 4 mm diameter
- AZ660 Collet for short valves 5 mm diameter
- AZ661 Collet for short valves 5,5 mm diameter
- AZ662 Collet for short valves 6 mm. dia.
- AZ663 Collet for short valves 7 mm. dia.
- AZ664 Collet for short valves 8mm dia.
- AZ665 Collet for short valves 9mm dia.
- AZ666 Collet for short valves 10 mm. dia.
- AZ865 Grinding rockers arm device
- AZ866 Steel sheet base

**VG28 STANDARD**

- Variable speed of valve spindle
- Electric system with switch conforming to CE standards
- Coolant system
- Device for rocker arm grinding
- Support for diamond holder (diamond excluded)
- Collet from 6 to 9 mm. dia.
- Collet from 9 to 13,5 mm. dia.
- Collet from 13,5 to 19 mm.
- Grinding wheel 180x32 mm. dia. 12 mm. thickness
- Cup grinding wheel 150x32 mm. dia. 30 mm. thickness
- N. 1 liter of coolant additive (AZ391)
- Service tools
- Operating manual

**OPTIONAL**

- AZ866 Steel sheet base
- AZ487 Micrometric diamond dresser
- AZ869 Device for grinding valves with stem from 19 to 25 mm. dia.
- AZ645 Collet for short valves 4 mm. dia.

- AZ646 Collet for short valves 5,5 mm. dia.
- AZ650 Collet for short valve 5 mm
- AZ651 Collet for short valve 6 mm
- AZ652 Collet for short valve 7 mm
- AZ653 Collet for short valve 8 mm
- AZ654 Collet for short valve 9 mm
- AZ655 Collet for short valve 10 mm
- AZ656 Collet for short valve 11 mm
- AZ657 Collet for short valve 12 mm
- AZ411 Diamond and rest 0,40 kt
- AZ392 5 liters of special cutting oil



VG19



VGX - NEW MODEL

VG28

