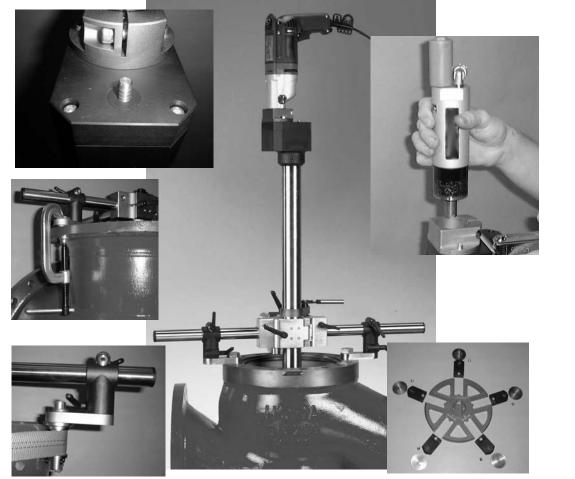
Climax Globe Valve Grinding and Lapping Machines Model Numbers: VM2350, VM2500, VM2600 Valve Seat Diameter Range: 3"-24"(80 mm-600mm)



<u>"On Site" grinding and lapping of</u> <u>globe valves</u>

Easy to set up and handle

Powerful

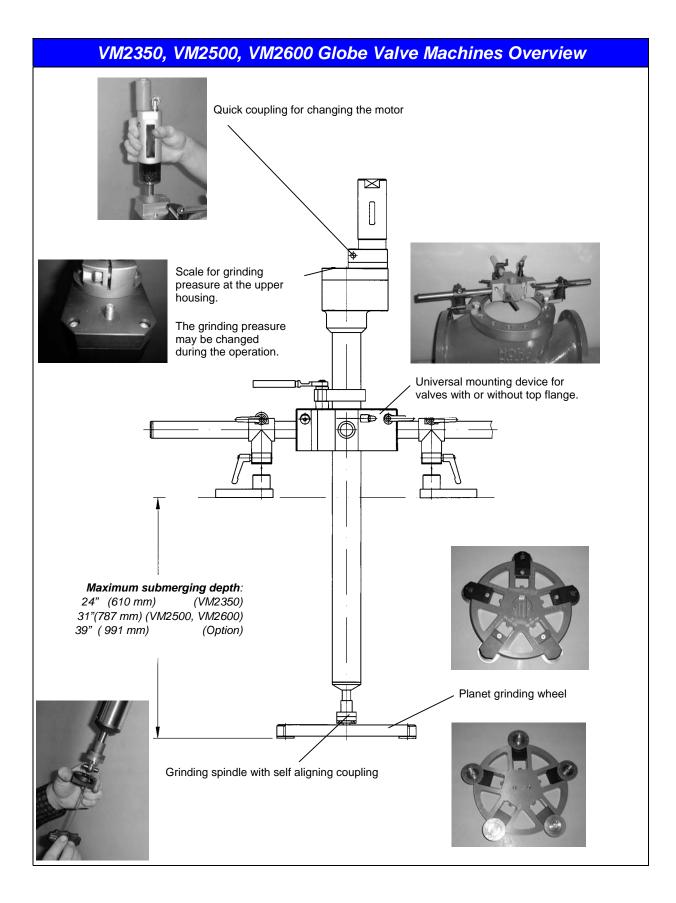
Rigid design

High performance



Climax Portable Machine Tools

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	Technical data	3	
<i>Working range (Nominal Diameter)</i>	min	3" 80 mm	
	max (VM2350)	14"	350 mm
	max (VM2500)	20"	500 mm
	max (VM2600)	24"	500 mm
Submerging Depth	max (VM2350)	24"	600 mm
	max (VM2500, VM2600)	31"	800 mm
	optional	38"	1000 mm
Power	electric	1.3 HP (1 kW)	
	pneumatic	0.7 H	P (0.55 kW)
Variable Spindle Speed	electric	30 5	550 Rev/min
	pneumatic	30 4	100 Rev/min
Spindle torque	permanent	19 ft	lbs(26 Nm)
	max	80 ft l	bs(108 Nm)

Weight		
Machine VM2350		
Basic machine without tooling	29 lb	13 kg
Machine Case	77 lb	35 kg
Accessory Case	42 lb	19 kg
Machine VM2500		
Basic machine without tooling	31 lb	14kg
Machine Case	80 lb	36 kg
Accessory Case	71 lb	36 kg
Machine VM2600		
Basic machine without tooling	31 lb	14kg
Machine Case	80 lb	39 kg
Accessory Case	71 lb	36 kg

Model VM	2350 (Seat	Diameter Range: 3"-14"(80 mm-350 mm))	
	P/N	Description	
	240-00S-S12	VM2350S with electric motor 230 V / 50 Hz	
	240-00S-S13	VM2350S with pneumatic motor	
	240-00S-S14	VM2350S with electric motor 230V / 50 Hz and pneumatic motor	
	240-00S-S15	VM2350S with electric motor 115 V / 60 Hz	
	240-00S-S16 240-00S-S02	 VM2350S with electric motor 115V / 60 Hz and pneumatic motor Globe valve grinding and lapping machine VM2350 Machine like VM2350S but with the following additional lapping equipment: 2 sets (5 discs/set) of lapping disks 1.2" (30 mm) and 2.0" (50 mm). Lapping paste 10 and 30 μm. VM2350 with electric motor 230 V / 50 Hz 	
	240-00S-S03	VM2350 with pneumatic motor	
	240-00S-S04 240-00S-S05		
	240-00S-S06	VM2350 with electric motor 115V / 60 Hz and pneumatic	
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Pneumatically driven machines also require the accessory pneumatic motor maintenance kit

Model VN	2500 (Seat	Diameter Range: 3"-20"(80 mm-500 mm))	
	P/N	Description	
	P/N	DescriptionGlobe Valve Grinder VM2500SNominal working dia 3" to 20" (80 mm to 500 mm)Submerging depth 31"(800 mm).Included Components:• 3 sets of planet arms (5 arms/set) 1.2"(30 mm), 2.4"(60 mm), 4.5"(115 mm) in length.• Set of 4 planet wheels 3.9" (100 mm), 5.3" (135 mm), 8.7" (220 mm), 15.0" (380 mm) in diameter• 2 sets (5 discs/set) of grinding discs 2.0" (50 mm) and 3.2" (80 mm) in diameter.• Integrated grinding preasure detection with a scale at the upper machine housing.• 1 set of clamping equipment for mounting the machine on valves with and without top flange.• Start up set of abrasives grain 100 and 500.• 1 set of tooling.• 1 set of tooling.• 2 arrying cases with foam inlet for the machine and the accessories.• VM2500S with electric motor 230 V / 50 Hz	
	240-00S-S33	VM2500S with pneumatic motor	
	240-00S-S34	VM2500S with electric motor 230V / 50 Hz and pneumatic motor	
	240-00S-S35	VM2500S with electric motor 115 V / 60 Hz	
H-2-	240-00S-S36	VM2500S with electric motor 115V / 60 Hz and pneumatic motor	
		 Globe valve grinding and lapping machine VM2500 Machine like VM2500S but with the following additional lapping equipment: 3 sets (5 discs/set) of lapping disks 1.2" (30 mm), 2.0" (50 mm), and 3.2" (80 mm) in diameter 	
	240-00S-S22	 Lapping paste 10 and 30 μm. VM2500S with electric motor 230 V / 50 Hz 	
	240-00S-S23	VM2500S with pneumatic motor	
	240-00S-S24	VM2500S with electric motor 230V / 50 Hz and pneumatic motor VM2500S with electric motor 115 V / 60 Hz	
	240-00S-S25		
	240-00S-S26	VM2500S with electric motor 115V / 60 Hz and pneu- matic motor	-
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Pneumatically driven machines also require the accessory pneumatic motor maintenance kit

Model VN	12600 (Seat	Diameter Range: 3"-24"(80 mm-600 mm))
	P/N	Description
	-	Globe Valve Grinder VM2600S
110000		Nominal working dia 3" to 24" (80 mm to 600 mm)
	-	Submerging depth 31"(800 mm).
		Included Components:
9		 4 sets of planet arms (5 arms/set) 1.2"(30 mm), 2.4"(60 mm), 4.5"(115 mm), 7.5" (190 mm) in length.
		 Set of 4 planet wheels 3.9" (100 mm), 5.3" (135 mm), 8.7" (220 mm), 15.0" (380 mm) in diameter.
		 Integrated grinding preasure detection with a scale at the upper machine housing.
		 1 set of clamping equipment for mounting the machine on valves with and without top flange.
		• Start up set of abrasives grain 100 and 500.
1 Mar		1 set (5 discs/set) of CBN grinding disks 2.0" (50 mm) in diameter
	1	1 set of tooling.
		Carrying cases with foam inlet for the machine and the accessories.
	240-00S-S52	VM2600S with electric motor 230 V / 50 Hz
	240-00S-S53	VM2600S with pneumatic motor
	240-00S-S54	VM2600S with electric motor 230V / 50 Hz and pneumatic motor
Kana and and a second	240-00S-S55	VM2600S with electric motor 115 V / 60 Hz
	240-00S-S56	VM2600S with electric motor 115V / 60 Hz and
		pneumatic motor
		Globe valve grinding and lapping machine VM2500 Machine like VM2600S but with the following additional lapping equipment:
a la france provide and		 3 sets (5 discs/set) of lapping disks 1.2" (30 mm), 2.0" (50 mm), and 3.2" (80 mm) in diameter
		Lapping paste 10 and 30 µm.
	240-00S-S42	VM2600S with electric motor 230 V / 50 Hz
3	240-00S-S43	VM2600S with pneumatic motor
	240-00S-S44	VM2600S with electric motor 230V / 50 Hz and pneumatic motor
	240-00S-S45	VM2600S with electric motor 115 V / 60 Hz
	240-00S-S46	VM2600S with electric motor 115V / 60 Hz and pneu- matic motor
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Pneumatically driven machines also require the accessory pneumatic motor maintenance kit

	Accessories	
P/N	Description	
240-13K-001	Maintenance unit for pneumatic motor Required for machines with pneumatic motor. The maintenance unit is not included in the standard scope of supply with pneumatic driven machines. Includes: • filter • oiler • pressure gauge • speed controller	
240-66S-N01	Extension Kit 20" (500 mm) for grinding To extend the working range of the VM2350(S) to 20" (500 mm). 1 planet wheel 15.0" (380 mm) diameter. 1 set (5) grinding discs 3.2" (80 mm) diameter. 1 start up set self-adhesive abrasive discs 3.2" (80 mm) diameter, grain 100 and 500.	
240-67S-N01	Extension Kit 20" (500 mm) for grinding and lappingTo extend the working range of the VM2350 to 20" (500 mm).1 planet wheel 15.0" (380 mm) diameter.1 set (5) grinding discs 3.2" (80 mm) diameter.1 set (5) lapping discs 3.2" (80 mm) diameter1 start up set self-adhesive abrasive discs 3.2" (80 mm) diameter, grain 100 and 500.	
 110-24S-N01	Planet arm to extend seat range from 20" (500 mm) to 24" (600 mm) Each (A total of 5 are required) A planet arm (7.5" (190 mm)), that extents the grinding range of the 15" (380 mm) diameter planet wheel up to 24" (600 mm).	
	Extension of submerging depth Allows you to extend the submerging depth without chang- ing the maximum grinding diameter (<i>Must be ordered with the machine. Can not be ordered</i> <i>after delivery of the machine.</i> e.g 240-00S-S05-M01)	
-M01	Extension of submerging depth from 24" to 31" (600 mm to 800 mm) (only VM2350(S)) • Extension of the machine arm. • Adaption of the machine case.	
-M02	Extension of submerging depth from 24" to 39" (600 mm to 1000 mm) (only VM2350(S)) • Extension of the machine arm. • Adaption of the machine case.	
-M03	Extension of submerging depth from 31" to 39"(800 mm to 1000 mm)(only VM2500(S) or VM2600(S))• Extension of the machine arm.• Adaption of the machine case.	

		Accessories
	P/N	Description
		 3-jaw centering chuck Clamping dia 80mm 430 mm Delivery in a high quality plastic case
	300-10S-N01	3-jaw centering chuck (additional to the machine)
	-M10	3-jaw centering chuck instead of the universal clamping device Extend the P/N by "M10": e.g. 240-00S-S05-M10
	185-00S-S22 185-00S-S23	Grinding adapter For using the tooling of the VM2000 series machines on stationary drill presses. The grinding preasure is made by an application of springs. The scale for the grinding preasure is divided into two ranges: One for high rate of removal of material and the other for high precision surfaces. Grinding adapter MT2 For using on stationary drill presses with morse taper #2. Grinding adapter MT3
		For using on stationary drill presses with morse taper #3.
$\bigcirc \bigcirc $	110-33S-N01	CBN grinding disks 2" (50 mm) diameter. (each) (A total of 5 required) Required for rough grinding of heavily damaged seats (1 set is included in each component package).
	110-34S-N01	CBN grinding disks 3.2" (80 mm) diameter. (each) (A total of 5 required) Required for rough grinding of heavily damaged seats.
$\odot \bullet \bullet \odot \odot$	110-41S-N01	Lapping disks 1.2" (30 mm) diameter (each) (A total of 5 required)
	110-42S-N01	Lapping disks 2" (50 mm) diameter (each) (A total of 5 required)
	110-43S-N01	Lapping disks 3.2" (80 mm) diameter (each) (A total of 5 required)

Because CLIMAX is committed to product improvement, the machine you receive may be slightly different to the pictures above.