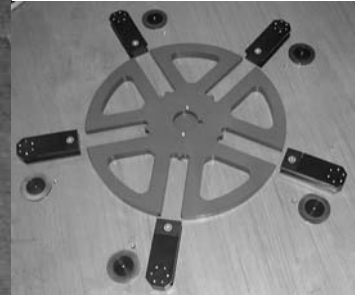
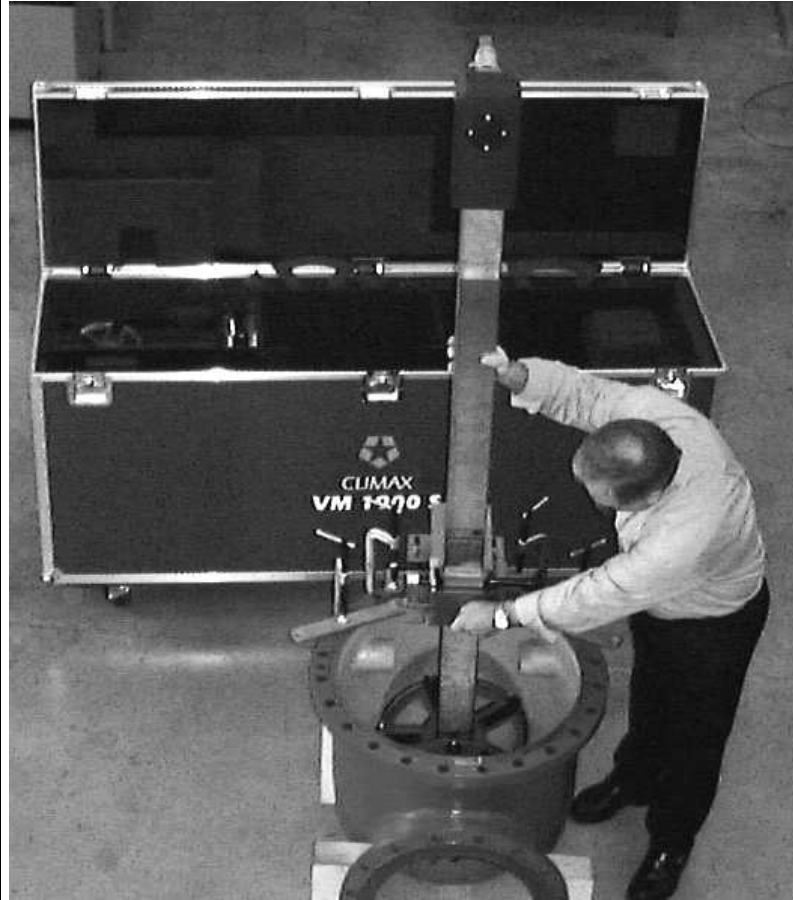


Climax
Gate Valve Grinding and Lapping Machines
Model Numbers: VM1700, VM1900
Valve Seat Diameter Range: 8" -48" (200 mm-1200 mm)



**"On Site" grinding and lapping of
gate valves**

Easy to set up & handle

Powerful

Rigid design

High performance



CLIMAX®
Portable Machine Tools, Inc.

Climax Portable Machine Tools

2712 E. Second St.

Newberg, OR 97132 USA

Telephone: 503-538-2185

North America Toll-Free: 800-333-8311




E-Mail: info@cpmt.com

Internet: www.cpmt.com

Technical Data			
Working range-DN...	min	8"	200 mm
	max VM1700	28"	700 mm
	max VM1700 with extension	36"	900 mm
	max VM1900	40"	1000 mm
	max VM1900 with extension	48"	1200 mm
Submerging Depth	max (VM1700)	40"	1000 mm
	max (VM1900)	55"	1400 mm
Power	electric	1.3 HP	1 kW
	pneumatic	0.75 HP	0.55 kW
Variable Spindle Speed	electric	20 ... 370 rpm	
	pneumatic	20 ... 270 rpm	
Spindle Torque	permanent	28 ft-lb	40 Nm
	max	117 ft-lb	160 Nm



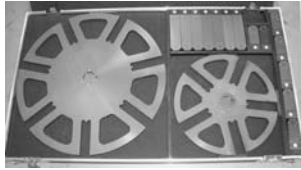

Weight		
Machine VM1700		
Basic machine without tooling	62 lb	28 kg
Shipping Weight	330 lb	160 kg
Machine VM1900		
Basic machine without tooling	68 lb	31 kg
Shipping Weight	507 lb	230 kg

Model VM1700 (Range 8"-28" (200 mm-700 mm) Diameter)

	P/N	Description
		<p>Gate Valve Grinder VM1700S Nominal working dia 8" to 28" (200 mm to 700 mm) Submerging depth 40"(1000 mm). Included Components:</p> <ul style="list-style-type: none"> • 3 sets (5 arms/set) of planet arms 2.4" (60 mm), 4.5" (115 mm), 6.3" (160 mm) in length. • Set of 3 planet wheels 8.7" (220 mm), 15.0" (380 mm), 21.3" (540 mm) in diameter. • 2 sets (5 discs/set) of grinding discs 2.0" (50 mm) & 3.2" (80 mm) in diameter. • 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 (5) of CBN grinding disks 2.0"(50 mm) diameter • 1 set of tooling. • Carrying cases with foam inlet for the machine and the accessories.
	470-00S-S12	VM1700S with electric motor 230 V / 50 Hz
	470-00S-S13	VM1700S with pneumatic motor
	470-00S-S14	VM1700S with electric motor 230V / 50 Hz and pneumatic motor
	470-00S-S15	VM1700S with electric motor 115 V / 60 Hz
	470-00S-S16	VM1700S with electric motor 115V / 60 Hz and pneumatic motor
		<p>Gate Valve Grinding and Lapping machine VM1700 Machine like VM1700S but with additional lapping equipment:</p> <ul style="list-style-type: none"> • 2 sets (5 discs/set) of lapping disks 2.0"(50 mm) & 3.2"(80 mm) in diameter. • Lapping paste 10 and 30 µm.
	470-00S-S02	VM1700 with electric motor 230 V / 50 Hz
	470-00S-S03	VM1700 with pneumatic motor
	470-00S-S04	VM1700 with electric motor 230V / 50 Hz and pneumatic motor
	470-00S-S05	VM1700 with electric motor 115 V / 60 Hz
	470-00S-S06	VM1700 with electric motor 115V / 60 Hz and pneumatic motor
		


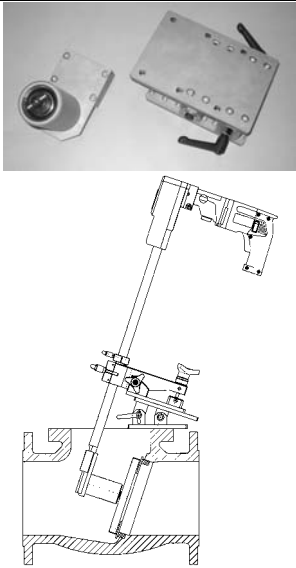


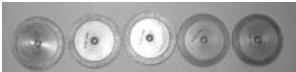


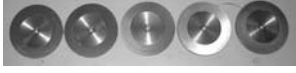
Pneumatically driven machines also require the accessory pneumatic motor maintenance kit

Model VM1900 (Range 8"-40" (200 mm-1000 mm) Diameter)


	P/N	Description
		<p>Gate Valve Grinder VM1900S Nominal working diameter 8" to 28" (200 mm to 1000 mm) Submerging depth 55"(1400 mm). Included Components:</p> <ul style="list-style-type: none"> • 3 sets (7 arms/set) of planet arms 2.4" (60 mm), 4.5" (115 mm), 6.3" (160 mm) in length. • Set of 4 planet wheels 8.7" (220 mm), 15.0" (380 mm), 21.3" (540 mm), 32.3"(820 mm) in diameter. • 2 sets (7 discs/set) of grinding discs 2.0" (50 mm) & 3.2" (80 mm) in diameter. • 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 (7) of CBN grinding disks 2.0"(50 mm) diameter • 1 set of tooling. • Carrying cases with foam inlet for the machine and the accessories.
	470-00S-S32	VM1900S with electric motor 230 V / 50 Hz
	470-00S-S33	VM1900S with pneumatic motor
	470-00S-S34	VM1900S with electric motor 230V / 50 Hz and pneumatic motor
	470-00S-S35	VM1900S with electric motor 115 V / 60 Hz
	470-00S-S36	VM1900S with electric motor 115V / 60 Hz and pneumatic motor
 		<p>Gate Valve Grinding and Lapping machine VM1900 Machine like VM1900S but with additional lapping equipment:</p> <ul style="list-style-type: none"> • 2 sets (7 discs/set) of lapping disks 2.0"(50 mm) & 3.2"(80 mm) in diameter. • Lapping paste 10 and 30 µm.
	470-00S-S22	VM1900 with electric motor 230 V / 50 Hz
	470-00S-S23	VM1900 with pneumatic motor
	470-00S-S24	VM1900 with electric motor 230V / 50 Hz and pneumatic motor
	470-00S-S25	VM1900 with electric motor 115 V / 60 Hz
	470-00S-S26	VM1900 with electric motor 115V / 60 Hz and pneumatic motor
		

Pneumatically driven machines also require the accessory pneumatic motor maintenance kit

Accessories


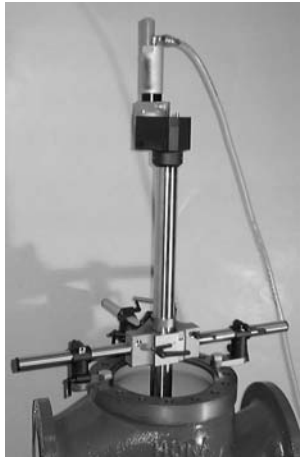

Accessories		
P/N	Description	
	<p>240-13K-001 Maintenance unit for pneumatic motor Required for machines with pneumatic motor. The maintenance unit is not included in the standard scope of supply with pneumatic driven machines. Includes:</p> <ul style="list-style-type: none"> • filter • oiler • pressure gauge • speed controller 	
	<p>470-00S-L03 Swing Check accessories For grinding of swing check valves. Includes:</p> <ul style="list-style-type: none"> • swivel adapter for adaption of the machine on the valve • spindle extension for reaching the seat with the planet wheels. 	
	<p>120-22S-N01 Planet arm 10.8" (275 mm) long (each) (A total of 5 are required for VM1700) (A total of 7 are required for VM1900) To extend the working diameter of the:</p> <ul style="list-style-type: none"> • VM1700 from 28" to 36"(700 mm to 900 mm) • VM1900 from 40" to 48"(1000 mm to 1200 mm) 	
	<p>110-33S-N01 CBN grinding disks 2" (50 mm) diameter. (each) (A total of 5 are required for VM1700) (A total of 7 are required for VM1900) Required for rough grinding of heavily damaged seats (1 set is included in each component package).</p>	
	<p>110-34S-N01 CBN grinding disks 3.2" (80 mm) diameter. (each) (A total of 5 are required for VM1700) (A total of 7 are required for VM1900) Required for rough grinding of heavily damaged seats.</p>	
	<p>110-41S-N01 Lapping disks 1.2" (30 mm) diameter (each) (A total of 5 are required for VM1700) (A total of 7 are required for VM1900)</p>	
	<p>110-42S-N01 Lapping disks 2" (50 mm) diameter (each) (A total of 5 are required for VM1700) (A total of 7 are required for VM1900)</p>	
	<p>110-43S-N01 Lapping disks 3.2" (80 mm) diameter (each) (A total of 5 are required for VM1700) (A total of 7 are required for VM1900)</p>	

Accessories

P/N	Description
	<p>Globe Valve Conversion Kit The conversion kit comes with a complete machine arm (submerging depth 40" (1000 mm)) and mounting equipment. It uses the motor and the tooling of the VM1700/1900. Scope of supply:</p> <ul style="list-style-type: none"> • One pieces of ball joint coupling size 15 and 25 each. • Integrated grinding pressure detection with a scale. • Mounting column with mounting plate for valves with and without flange. • Carrying case with foam inlet for the accessories. The machine arm is included in the case of the VM1700 <p>270-00S-L12 Globe Valve Conversion with electric motor 230 V / 50 Hz 270-00S-L13 Globe Valve Conversion with pneumatic motor 270-00S-L15 Globe Valve Conversion with electric motor 115 V / 60 Hz</p>



TWIN Machines for Gate and Globe Valves Range: 8"-48"(200-1200 mm) Diameter

	P/N	Description	
		Gate Valve Grinder VM1700ST <ul style="list-style-type: none"> Includes The VM1700S and the Globe valve conversion 	
	470-00S-T12	VM1700ST with electric motor 230 V / 50 Hz	
	470-00S-T13	VM1700ST with pneumatic motor	
	470-00S-T14	VM1700ST with electric motor 230 V / 50 Hz and pneumatic motor	
	470-00S-T15	VM1700ST with electric motor 115 V / 60 Hz	
	470-00S-T16	VM1700ST with electric motor 115 V / 60 Hz and pneumatic motor	
		Gate Valve Grinding an Lapping machine VM1700T <ul style="list-style-type: none"> Includes The VM1700 and the Globe valve conversion 	
	470-00S-T02	VM1700T with electric motor 230 V / 50 Hz	
	470-00S-T03	VM1700T with pneumatic motor	
	470-00S-T04	VM1700T with electric motor 230 V / 50 Hz and pneumatic motor	
	470-00S-T05	VM1700T with electric motor 115 V / 60 Hz	
	470-00S-T06	VM1700T with electric motor 115 V / 60 Hz and pneumatic motor	
		Gate Valve Grinder VM1900ST <ul style="list-style-type: none"> Includes The VM1900S and the Globe valve conversion 	
	470-00S-T32	VM1900ST with electric motor 230 V / 50 Hz	
	470-00S-T33	VM1900ST with pneumatic motor	
	470-00S-T34	VM1900ST with electric motor 230 V / 50 Hz and pneumatic motor	
	470-00S-T35	VM1900ST with electric motor 115 V / 60 Hz	
	470-00S-T36	VM1900ST with electric motor 115 V / 60 Hz and pneumatic motor	
		Gate Valve Grinding an Lapping machine VM1900T <ul style="list-style-type: none"> Includes The VM1900 and the Globe valve conversion 	
	470-00S-T22	VM1900T with electric motor 230 V / 50 Hz	
	470-00S-T23	VM1900T with pneumatic motor	
	470-00S-T24	VM1900T with electric motor 230 V / 50 Hz and pneumatic motor	
	470-00S-T25	VM1900T with electric motor 115 V / 60 Hz	
	470-00S-T26	VM1900T with electric motor 115 V / 60 Hz and pneumatic motor	

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