

**ANNEXURE-FG1000**  
**GEAR OPERATED LAPPING MACHINE**  
For Gate, Globe, Check, Safety and Control Valves  
Model FG-1000 (Size: 175mm to 1000mm)

CHANGING THE WAY  
YOUR VALVES  
ARE REPAIRED !!



**FLUIDCHEM VALVES (I) PVT. LTD.**  
ISO 9001: 2008 Certified Co.



**FLUIDCHEM MODEL FG 1000**  
**GEAR OPERATED LAPPING MACHINE**  
**For Gate, Globe, Check, Safety and Control Valves**

**FLUIDCHEM's model-FG is a robust, but light weight MECHANICALLY DRIVEN GEAR operated grinding and lapping machine for 'in-situ' repairs of damaged valve seat. The unique set up and construction makes the versatile FG suitable for all sorts of vertical seats (Gate -, Parallel Slide-, Check Valves) and horizontal mounted seats (Globe- & Safety Valves) in the range 175MM to 1000MM**

**UNIQUE FEATURES**

Versatile, universal tool for Gate, Parallel Slide, Globe and Safety valves. Highest material removal rates with the highest flatness accuracy.

**GATE & PARALLEL SLIDE VALVES**

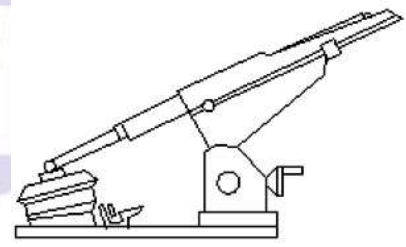
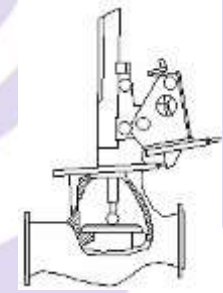
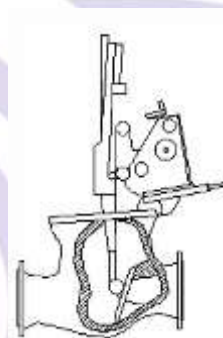
**FLUIDCHEM's new FG** is suitable and equipped for grinding and lapping the faces on both the Gate valve seats and wedge. Both seats inside the valve body are quickly machined in quick setting of the mounting bracket which also allow you to accurately lap both faces of the wedge.

**GLOBE AND SAFETY VALVES**

Within seconds the new **FG** is prepared for machining the flat seat of both Gate / Parallel Slide , Globe / Safety valves. The ball-joint construction in the arm ensure a very easy alignment and accurate control of the force.

**Wedges**

Machine is easily set up for wedge grinding using the existing clamping system and the additional mounting plate for wedge lapping which is provided along with the machine.



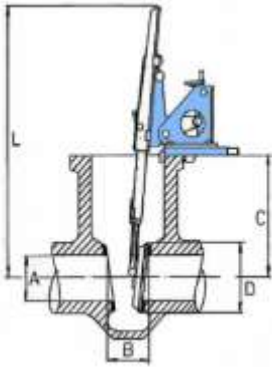
Electrically Operated Metabo Electric Motor BE 1100  
Or Equivalent  
230V /50Hz-60Hz,  
Speed 250-600 RPM Weight 3.75k  
With Gear Assembly 5.2kg

**Or**

Pneumatically Operated : Ingersoll rand Air Motor or Equivalent  
Air Flow 15cfm  
0.6 HP  
Free Speed of Air motor 450RPM






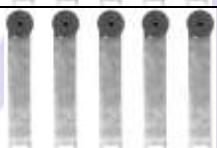
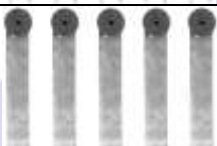
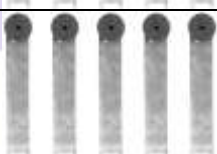
**Technical Data FG – 1000**

**FG-1000**










A= 175-1000mm  
B= 77mm (min)  
C= 100mm (min)  
900mm (standard)  
D= 200 - 871mm  
L= 730mm (min)  
1400mm (max- Optional)

### MAIN MACHINE PARTS

Part Description	Product Illustration
Bottom Plate Vice for Body Weight:- 9.1 kg	
Mounting plate for wedges Weight:- 13.3 kg	
Main Machine holder with Pressure controller Weight:- 11.2 kg	
Arms 90mm length [Grinding head (5 pcs) ] Weight:- 1.4 kg	
Arms 110mm length [Grinding head (5 pcs)] Weight:- 1.5 kg	
Arms 205mm length [Grinding head (5 pcs)] Weight:- 2.25 kg	
Arms 250mm length [Grinding head (5 pcs)] Weight:- .3 kg	
Arms 375mm length [Grinding head (5 pcs) ] Weight:- 4.35 kg	

**HOLDING PLATES GEAR OPERATED**

Part Description	Product Illustration
<p>Driving Holding plate 195mm dia For valve ID size 175-300mm Weight 1,9 kg</p>	
<p>with 90mm ARMS</p>	
<p>Driving Holding plate 305mm dia For valve ID size 300-600mm Weight 3.3 kg</p>	
<p>with 110mm ARMS</p>	
<p>Driving Holding plate 400mm dia For valve ID size 600-800mm Weight 3.5 kg</p>	
<p>with 210mm ARMS</p>	
<p>Driving Holding plate 500mm dia For valve ID size 800-1000mm Weight. 6.1 kg</p>	

with 375mm ARMS	
Main Machine assembly Size 175mm to 600mm Having submergible depth 900mm Weight. 8.55kg	
Main Machine assembly Size 175mm to 1000mm Having submergible depth 1400mm Weight. 10.00kg	
Aluminum Grinding Discs 170mm, 195mm, 220mm, 245mm, 270mm, 320mm Total Weight:- 9kg	

**Self Adhesive Abrasive Papers**

SIZE	80 GRIT	120 GRIT	220 GRIT	400 GRIT	TOTAL
35mm Dia	100	100	100	100	400 pcs.
50mm Dia	100	100	100	100	400 pcs

**Spare parts**

- 1) Hose 1 m
- 2) Allenkey Set
- 3) Hexagon screwdriver 4.0 mm
- 4) Hexagon screwdriver 6.0 mm
- 5) Hexagon screwdriver 2.0 mm
- 6) Flash light
- 7) Measuring tape 2 m
- 8) Adjustable wrench
- 9) Gloves
- 10) Height adjuster (Attached on Holder)



**Box 1 and 2: Consists of Main Machine Assembly along with Mounting plate for wedges, Main Machine holder with Pressure controller, Arms, Bottom Plate Vice, Holding Plate, Electric / Pneumatic Motor)**  
**Size 37" x 21.5" x 15.5"**



**Box 3: Consists of Abrasive Papers, FRL, Pneumatic Motor, Pen Knife, Measuring Tape, Flash Light, Spanner Set, Allen Key Set, Adjustable wrench and other consumables.**  
**Size 17" x 11" x 7"**



**Box 4: Consists of Aluminum Grinding Discs: 170mm, 195mm, 220mm, 245mm, 270mm, 320mm**  
**Size 15.5" x 15.5" x 7"**  
**Total Weight: 17kg**