

**ANNEXURE-C80500**  
**FULL BORE GATE & PARALLEL SLIDE Valve**  
**Grinding and Lapping Machine**  
**Model TYPE GHF-C80500 Size 80mm to 500mm**



**You can do lapping of 2 valves of different size in this range.**

**FLUIDCHEM make PORTABLE Parallel Slide & Gate valve grinding & lapping machine for the refurbishing on site of:**

- sealing surface [body seat ring] in parallel Slide & Gate valve of various makes & size
- sealing surface [body seat ring] in swing check valves [with extra Adaptor at additional cost]
- flanges
- wedges and wedge disk

**Design:**

- modern construction, handy, light, and robust
- one-man-operation !
- suitable for on-site service as well as for overhaul in the workshop
- machine, tools, and accessories are corrosion-protected by galvanic finish of surface

**ASSEMBLY NO.1 :**

- 1) Valve size 80mm – 150mm
- 2) Having Submergable depth D -380mm
- 3) Minimum distance between two Valve's Body's seat Ring:
  - a) With Flat Holding plates: 27mm
  - b) With Rotating Grinding Heads disc 33mm
  - c) WEIGHT OF ASSEMBLY 7.6KG +1.5KG

**ASSEMBLY NO.2 :**









- 1) Valve size 150mm – 500mm
- 2) Having Submergable depth D -800mm
- 3) Minimum distance between two Valve's Body's seat Ring:
  - a) With Flat Holding plates: 65mm
  - b) With Rotating Grinding Heads disc 68 mm
  - c) WEIGHT OF ASSEMBLY 16KG +1.5KG

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  
0.8HP  
Free Speed of Air motor 150-240 RPM

**Grinding System: Flat Grinding Plates for Working Range DN 80 – 150 (NB 3” -6”) made up of Stainless Steel**

PLATE SIZE- [ VALVE SEAT RING OUTER DIA SIZE ]	VALVE SEAT RING OPENING (ID) SIZE	QTY.	SUITABLE FOR PRESSURE CLASS #
90mm dia	80mm dia	 1 no.	150# class & above
95mm dia		 1 no.	150# class & above
100mm dia	-	 1 no.	150# class & above
105mm dia	-	 1 no.	150# class & above
120mm dia	100mm dia	 1 no.	150# class & above
145mm dia	125mm dia	 1 no.	150# class & above
165mm dia	150mm dia	 1 no.	150# class & above
180mm dia	150mm dia aluminium plate	 1 no.	150# class & above

**Grinding system: Variable Planetary grinding disks [made up of Solid Aluminium Plates] for working range DN 175–500 (NB 7”-20”), radial adjustable to the required seat Diameter.**

OD of plate	Working Range		Central Grinding Diameter PCD of Rotating Head	Minimum outer dia of planet plates with Rotating Head	Maximum outer dia of planet plates with Rotating Head	
	Mini I.D.	Maxi O.D.			50mm Dia	80mm Dia
130mm O.D. 	185	265	180	230	235	265
180mm O.D. 	285	355	230	280	325	355
230 mm O.D. 	335	460	280	330	430	460
280 mm O.D. 	385	510	330	380	500	530

Please note that the Lapping Machine works smoothly and perfectly if the Rotating Grinding Heads Centre is a little smaller [5mm] than the Inner Diameter of Valves Seat Ring.

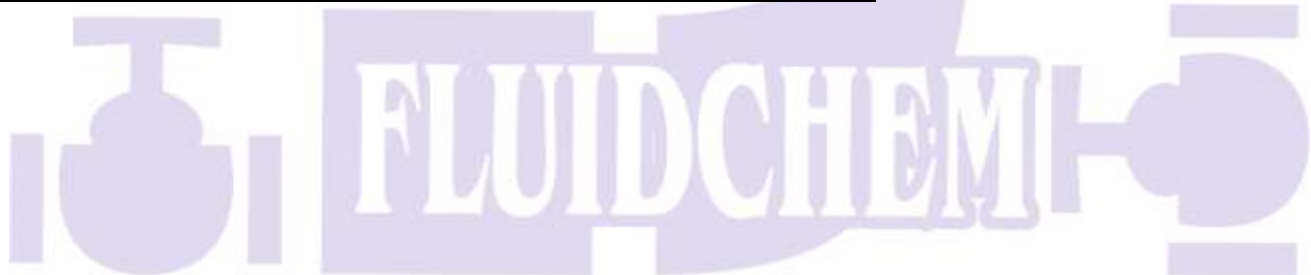
**Rotating Grinding Heads of SS**

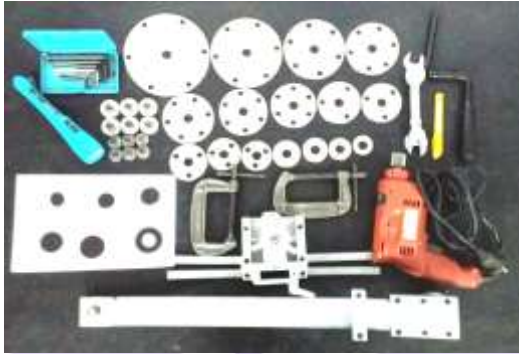
Size	Quantity
25mm diameter	 5 Nos.
35mm diameter	 5 Nos.
50mm diameter	 5 Nos.
80mm diameter	 5 Nos.

Arms Length	Quantity
32mm	3 Nos. 
55mm	5 Nos 
85mm	5 Nos 
165mm	5 Nos 

**Self Adhesive Abrasive Papers:-ALUMINIUM OXIDE upto 220 grit and above 220 grit we will supply Self Adhesive Abrasive Papers in SILICON CARBIDE**

SIZE	80 GRIT	120 GRIT	220 GRIT	400 GRIT	TOTAL
25mm dia	100	100	100	100	400 pcs
35mm dia	100	100	100	100	400 pcs
50mm dia	100	100	100	100	400 pcs
80mm dia	100	100	100	100	400 pcs.





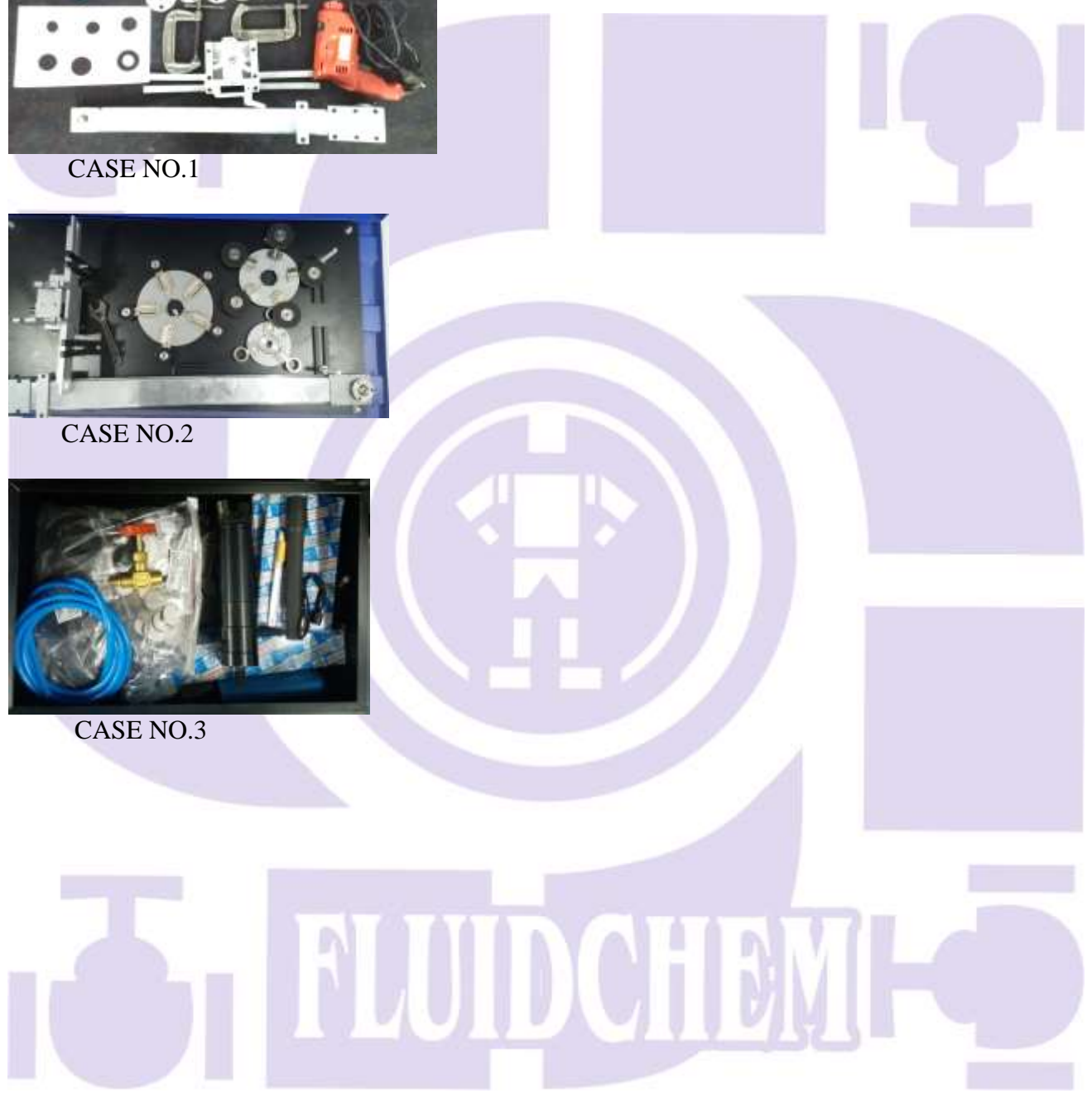
CASE NO.1



CASE NO.2



CASE NO.3



### Extra Accessories on chargeable basis

#### 1 ASSEMBLY NO.3 :

- 1) Valve size 200-800mm
- 2) Having Submergible depth D -1600mm
- 3) Minimum distance between two Valve's Body's seat Ring:
  - a) With Flat Holding plates: 65mm
  - b) With Rotating Grinding Heads disc 68 mm
  - c) WEIGHT OF ASSEMBLY 21KG + 1.5KG

2. Mounting assembly for WELDED BONNET JOINT [ FLANGELESS BONNET ] with 5 meter Belt.

3. CBN [ CUBICLE BORON NITRIDE ] GRINDING DISC 5 nos. per set.

#### 4. LAPPING ATTACHEMNT [ROTATING HEADS]

1. LAPPING ARMS WITH ROTATING HEADS of 50mm dia having 3mm CAST IRON plate on top- 5 NOS.
2. LAPPING ARMS WITH ROTATING HEADS of 80mm dia having 3mm CAST IRON plate on top- 5 NOS.
3. ROTATING HEADS of 25mm dia having 3mm CAST IRON plate on top- 5 NOS.
4. ROTATING HEADS of 35mm dia having 3mm CAST IRON plate on top- 5 NOS.
5. 500 gms Lapping Paste grit 120
6. 500 gms Lapping Paste grit 400
7. 500 gms Lapping Paste grit 800

5. Wedge Clamping System

6 Adaptor attachment for Radial drill Machines

7 SWING CHECK VALVE Adaptor

8. Electric Drive Motor

9. Pneumatic Drive Motor

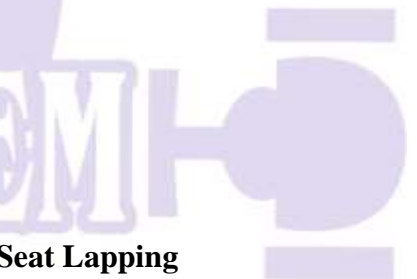
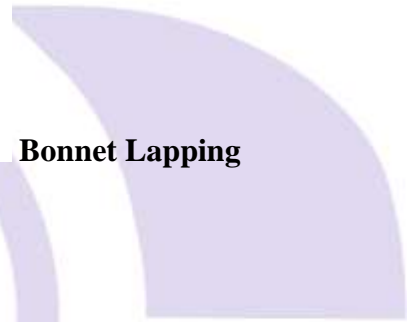
**MULTIPLE USES OF IN-SITU VALVE GRINDING AND LAPPING MACHINE**



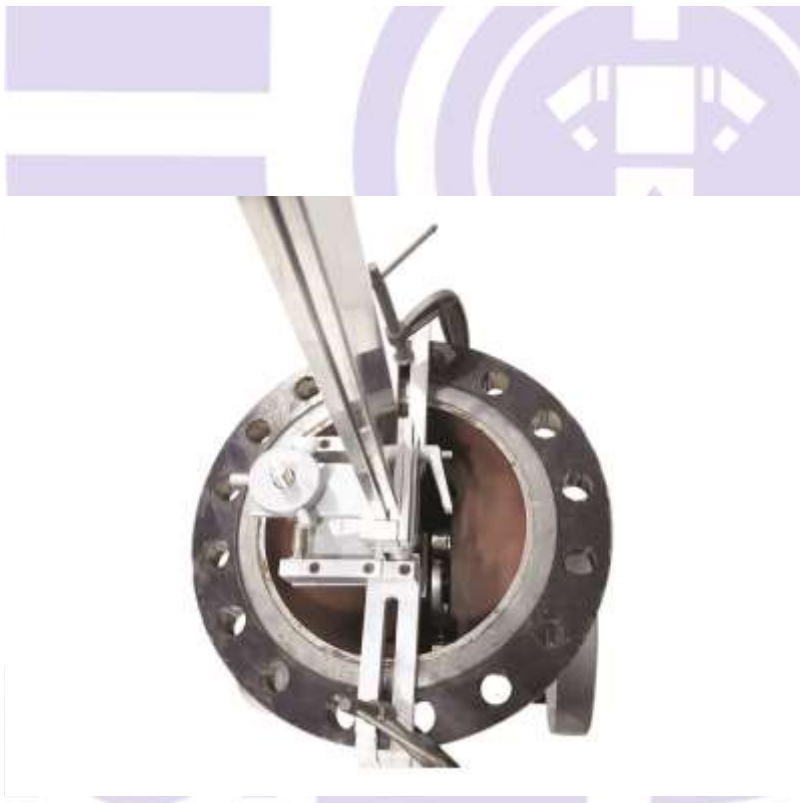
**Body Flange Lapping**



**Wedge Lapping**



**Bonnet Lapping**



**Body Seat Lapping**