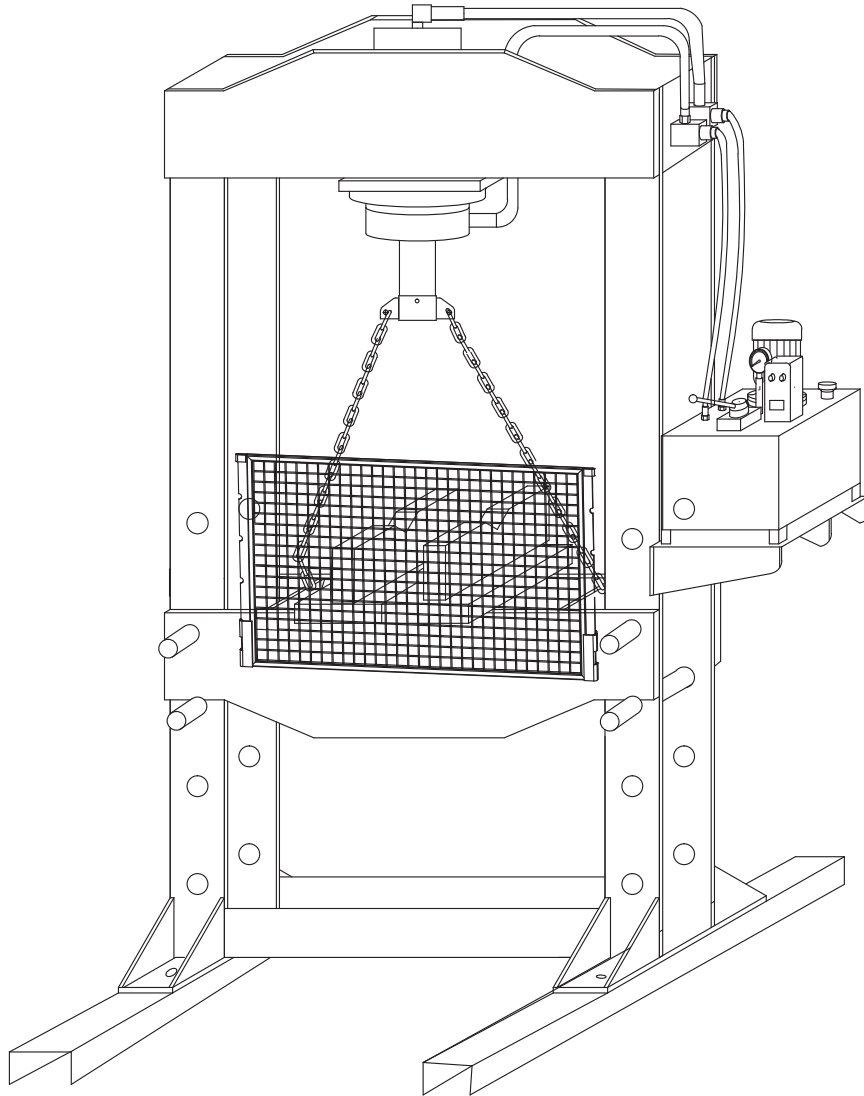


ELECTRICAL SHOP PRESS

MODEL: HSP150E



Operator's Manual

MechMaxx

www.mechmaxx.com

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FUNCTIONS AND CHARACTERISTICS

The machine adapts the high pressure plunger pump and two position four-way manual directional valve so that it can accelerate the extension and retraction speed of the pressure head as well as keep the stable pressure under the circumstance of high pressure. Movement of the piston rod can be easily operated when the workbench moves up and down. The machine has the advantages of elegant appearance, convenient and safe operation, and stable performance, safe and reliable. It widely apply to all large, medium, small-sized enterprises, factories, mineral enterprises, colleges and universities, auto garages, heavy machinery, Flanges, Pulleys, shaft bushing, bearing disassembly and installment, straightening and correction, bending. With the mould, it can punch, blank, stretch, fold and other pressing operation. It can be customized according to client's requirement.

SPECIFICATIONS

Model	HSP150E
Assembled size (H x D x W)	91 x 41.4 x 71.7 in
Ram Stroke	13.8 in
Bed Height	15 in
Bed Depth	14.9 in
Internal Width	45.3 in
Capacity	150 Ton
Pump Type	TWO WAY
Voltage	110V/60Hz, 1 Phase
Power	2 HP (1.5 KW)
Revolutions Per Minute	1800 RPM
Working Pressure (Low Pressure Stage)	725 psi
Working Pressure (High Pressure Stage)	5582.5 psi
Flow Rate (Low Pressure Stage)	2.9 GPM
Flow Rate (High Pressure Stage)	0.48 GPM
Usable Oil Capacity	11.9 Gal
Oil Tank Capacity	16.6 Gal

OPERATING INSTRUCTION

1. Connect the adapter of oil pump output pipe and the adapter of oil pipe in the rack, and then tighten the screw.
2. Stir the handle of directional valve to the neutral position, and then start the motor. The motor should run in clockwise. After the normal operation, please stir the directional valve so that it can control the stretching and recovery of the piston rod.
3. Method of adjusting the middle crossbeam: Firstly, disassemble the head of the piston rod and install the chain sleeve. Secondly, start the motor and stir the directional valve so that it can extend to the longest position. Thirdly, both ends of the chain should link to the waist hole on both sides of the middle crossbeam respectively, and then straighten the chain. Stir the directional valve to control the piston rod so that the middle crossbeam can reach the position needed, it is better that it can insert the cylinder pin.

4. Operation of Hydraulic Press

① Shaft Straightening:

Flat two pieces of V-shape iron pads on both sides of the platform plate in the middle crossbeam, flat the axle which needs adjustment in the triangle groove of these two V-shape iron pads. Adjust to the centre position of the piston rod head. Stir the directional valve so that the piston rod head can slowly press to the needed position, then stir the directional valve in reverse so that the piston rod head can up to the resetting.

② Folding and Installment of Axle Sleeve

Height of the middle crossbeam can be adjusted according to the length of work piece. Flat the work piece on the platform plate vertically, put the edge of the axle sleeve on the v-shape iron pad. The piston rod head holds the centre of the axle and then stir the directional valve so that it can press the piston rod head slowly to press in and out.

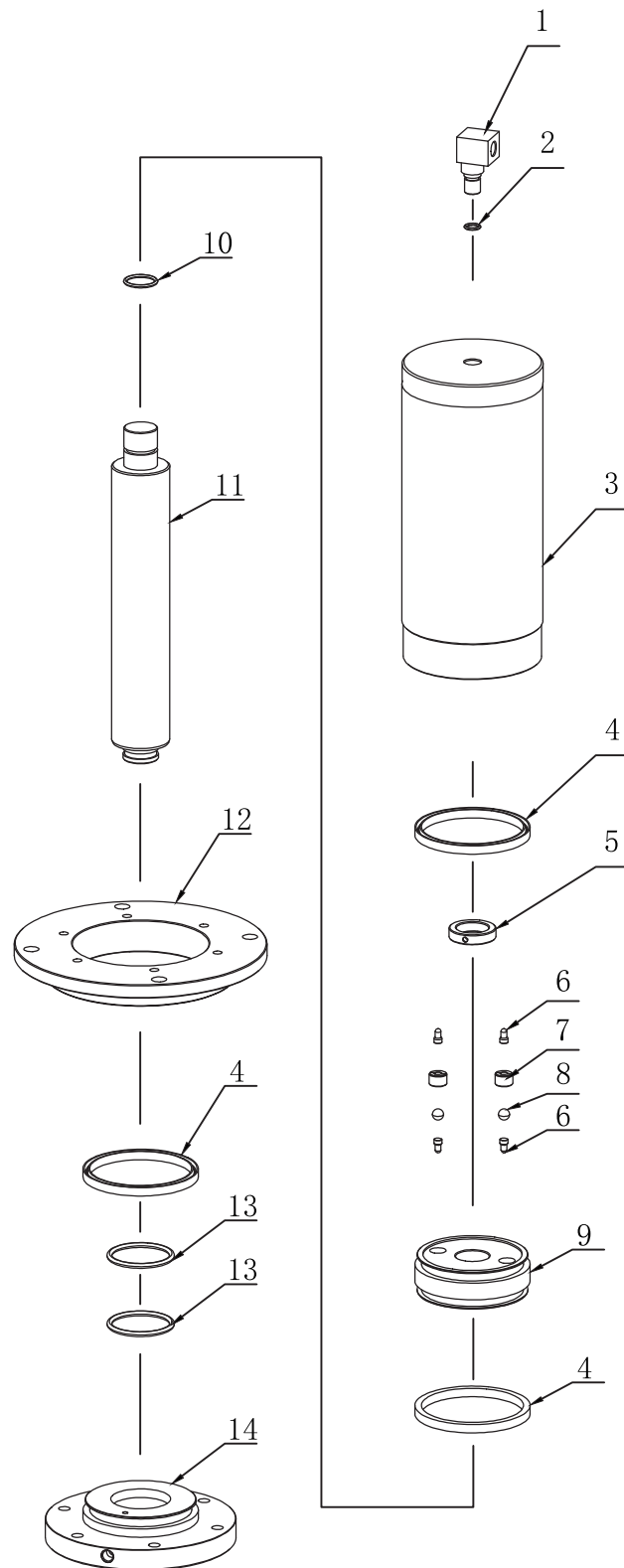
MAINTENANCE AND REPAIR

- 1.The oil of this machine can't be poured into the fuel tank without the strict filtering (120 mesh filter screen is used when it is fuel charging), and the oil level can't be lower than the oil indicator.
- 2.The fuel tank must be cleaned and the oil must be renewed every six months. The first time of oil changing should not exceed three months and the oil can be used one more time after the re-filtering.
- 3.No.46 anti-wear hydraulic oil is suggested.
- 4.The pressure gauge should be inspected every six months.
- 5.When the machine doesn't run for a long time, please clean the exposed surface and coat the antirust oil.

SAFETY OPERATING REGULATIONS OF HYDRAULIC PRESS

- 1.Before the operation, please read the operating instruction carefully. Do not start the machine, disassemble and repair the machine without authorization if users are not familiar with the machine structure, performance and operating procedures.
- 2.The operator of Hydraulic Press must go through the training and master the equipment's performance as well as operating techniques. Operator is not allowed to operate the machine independently without training.
- 3.Please clean the varia in the mold and any sewage in the rod of Hydraulic Press before operation.
- 4.Please check the fuel tank, oil pump, hydraulic unit, pipe, adapter, piston before the operation.
- 5.Start the equipment to check the pressure, the action of equipment and oil leakage.
- 6.Please don't move your body into the working area within the piston rod and middle crossbeam after the operation of the motor.
- 7.Adjust the working pressure. It should not exceed 90% of the rated pressure.
- 8.Strictly forbid knocking, stretching, welding and cutting, bending and distorting the machine when it is pressing.
- 9.No smoke, welding and cutting, fire around in the machine. No flammable and explosive goods. Fire prevention measures must be done.
10. Please cut down the power, clean the piston rod and workbench after the operation.

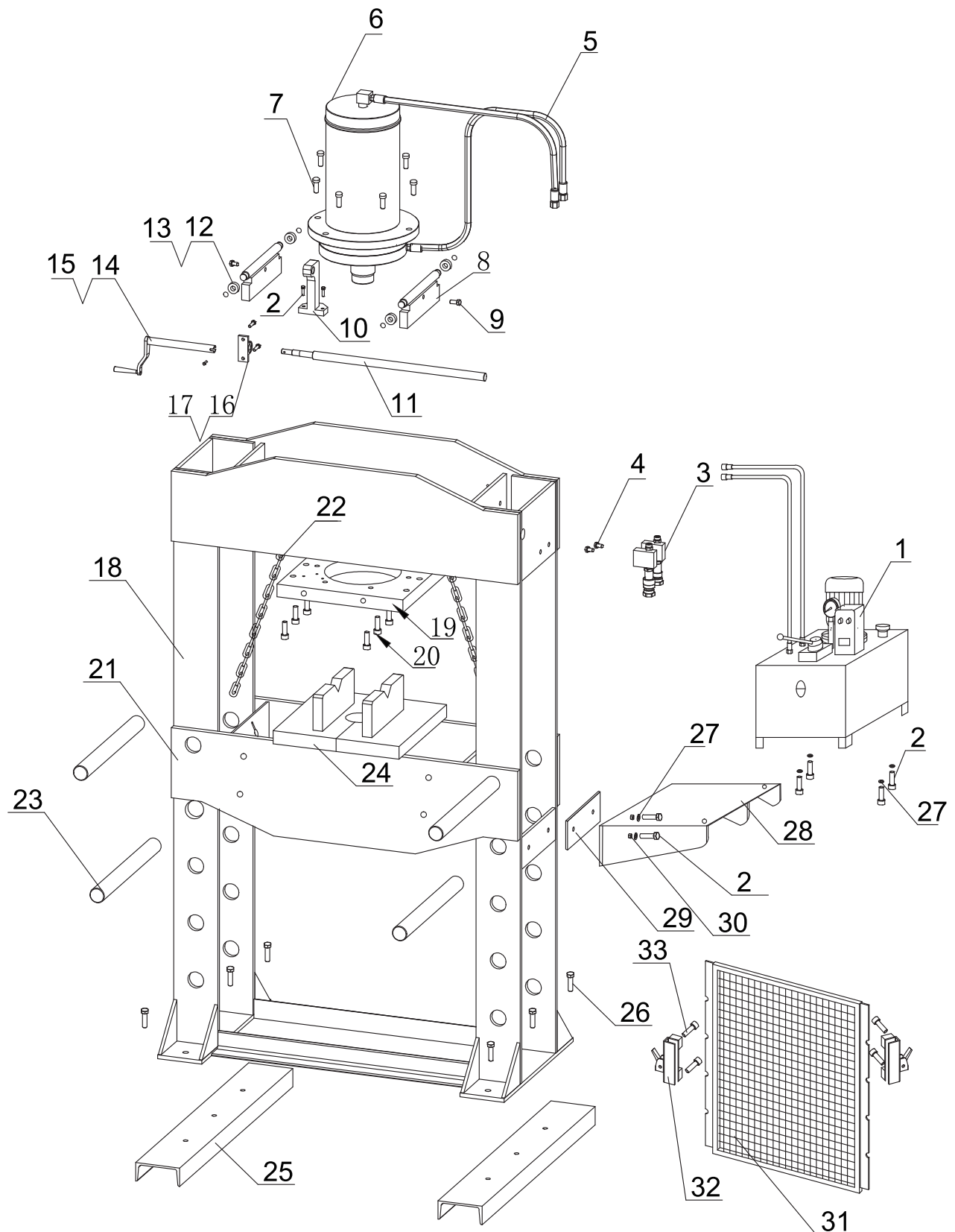
PARTS DIAGRAM (HYDRAULIC CYLINDER)



PARTS LIST (HYDRAULIC CYLINDER)

No.	DESCRIPTION	Qty
1	Adapter	1
2	O-ring	1
3	Oil Cylinder	1
4	Y-ring	3
5	Piston Nut	1
6	Limit Ejector Pin	4
7	Limit Nut	2
8	Steel Ball	2
9	Piston Head	1
10	O-ring	1
11	Piston Rod	1
12	Cap	1
13	O-ring	2
14	Big Nut	1

PARTS DIAGRAM



PARTS LIST

No.	DESCRIPTION	Qty
1	Electric Pump	1
2	Bolt	9
3	Tee Connector	2
4	Bolt	2
5	Hose	2
6	Cylinder	1
7	Bolt	6
8	Cylinder Slide Base	2
9	Bolt	2
10	Traveling Nut	1
11	Threaded Rod	1
12	Bearing	4
13	Retaining Ring	4
14	Handle	1
15	Bolt	1
16	Bearing Block	1
17	Bolt	2
18	Frame	1
19	Cylinder Mounting Plate	1
20	Bolt	6
21	Middle Cross Beam	1
22	Chain	2
23	Dowel Pin	4
24	V-Block	2
25	Foot	2
26	Bolt	6
27	Washer	6
28	Pump Mounting Plate	1
29	Pump Support Pad	1

No.	DESCRIPTION	Qty
30	Nut	2
31	Mesh Guard	1
32	Guard Slide Slot	2
33	Bolt	4

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