

Original

20 TON

HYDRAULIC

SHOP PRESS

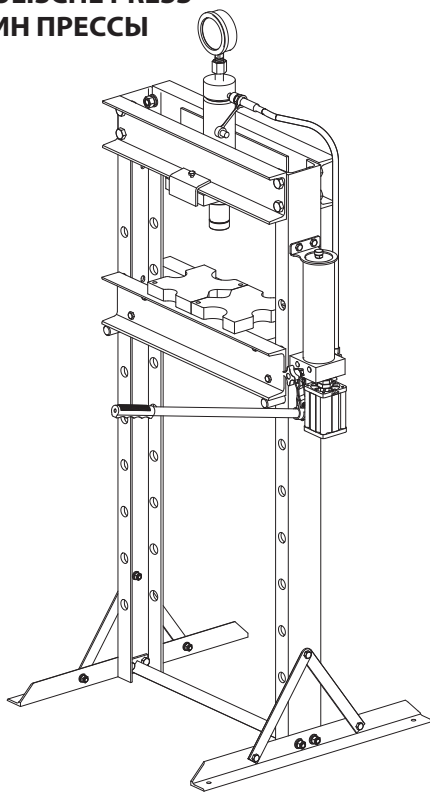
(FR) PRESSE D'ATELIER HYDRAULIQUE

(ES) PRENSA HIDRÁULICA DE TALLER

(DE) HYDRAULISCHE PRESS

(RU) МАГАЗИН ПРЕССЫ

Item: TY20002
Capacity: 20 Ton



CE

⚠ WARNING!

Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

TECHNICAL SPECIFICATIONS

	Description
Item	TY20002
Capacity	20 TON
Bed Opening	100mm
Work Range	0~910mm
Stroke Length	175mm
Inside Bed Dimensions L x W	100×540mm
Dimensions L x W x H	780x700x1810mm

SAFETY MARKINGS

⚠ WARNING!

1. Study, understand, and follow all instructions before operating the device.
2. Do not exceed rated capacity.
3. Prior to use, make sure the press is securely anchored.
4. The press shall be installed and operated in accordance with instructions.
5. Ensure the work area is clean and free of any hazards before operation.
6. Keep hands, arms, feet, and legs out of the work area. Accidental slippage can result in personal injury.
7. Use appropriate guarding to contain any pieces that may break or fly apart when applying force.
8. Use only press accessories having a capacity rating equal to or greater than the capacity of the press.
9. Verify lift cables are slack before pressing on the bolster.
10. Avoid off-center loads.
11. No alterations shall be made to the product.
12. Do not use this press for any use other than the manufacturer specified usage.
13. Failure to heed and understand these instructions and markings may result in personal injury, property damage, or both.

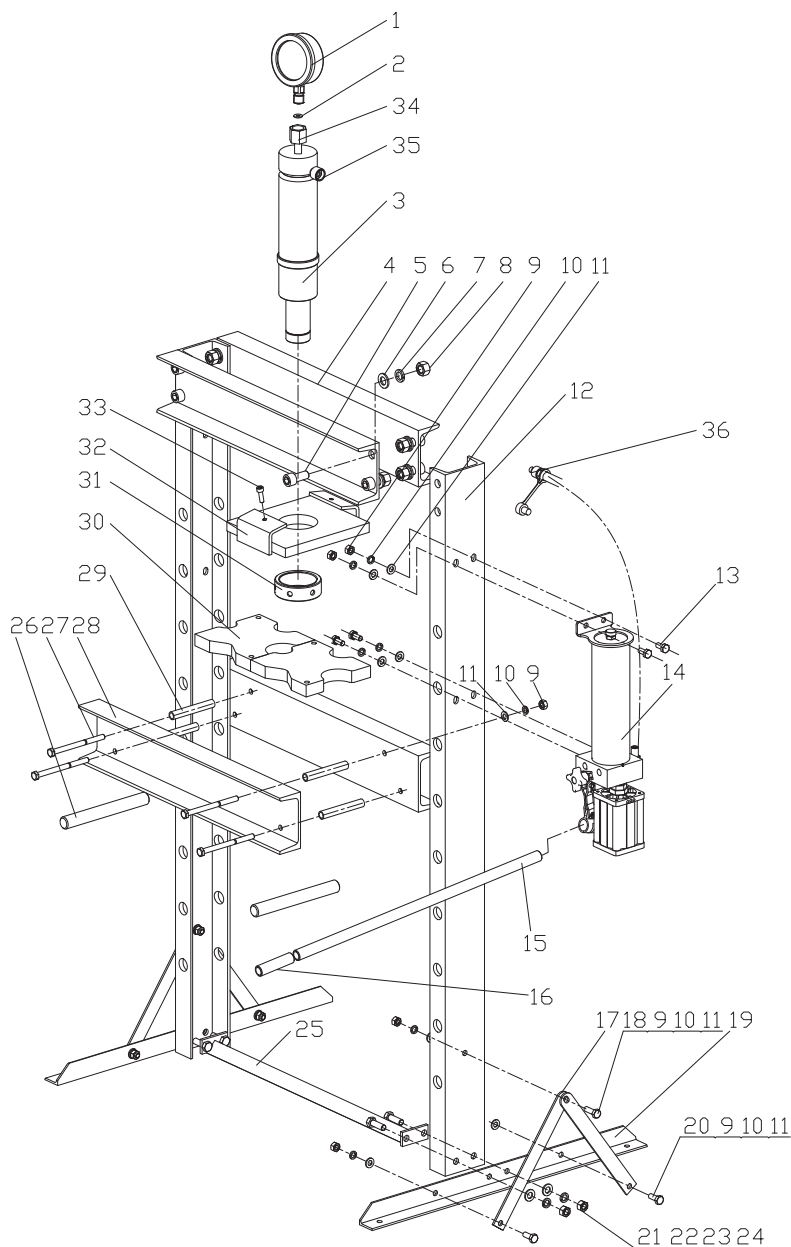
PARTS LIST

SHOP PRESS PARTS LIST (figure a)

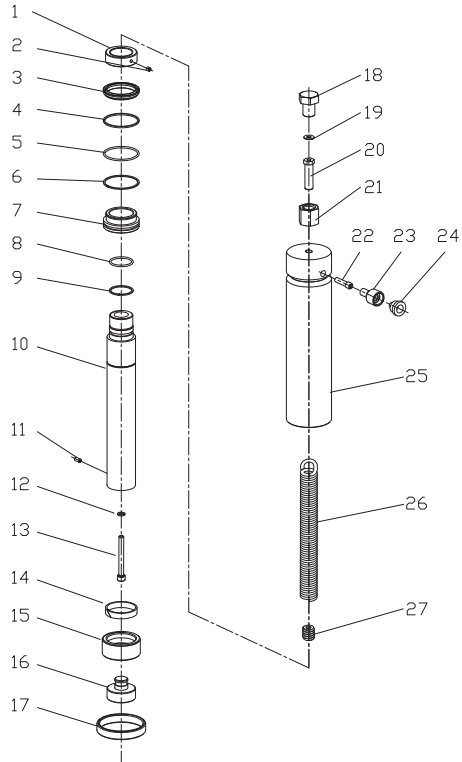
No.	Description	QTY
1	Gauge	1
2	Nylon ring	1
3	Cylinder	1
4	Upper crossbeam	2
5	Bolt M16X35	8
6	Washer 16	8
7	Spring washer 16	8
8	Nut M16	8
9	Nut M10	12
10	Spring washer 10	12
11	Washer 10	14
12	Side frame	2
13	Bolt M10x25	4
14	Pump	1
15	Handle	1
16	Handle grip	1
17	Arm support	4
18	Bolt M10x30	2

No.	Description	QTY
19	Base support	2
20	Bolt M10X20	4
21	Bolt M12X35	4
22	Washer 12	4
23	Spring washer 12	4
24	Nut M12	4
25	Link components	1
26	Support pins	2
27	Bolt M10x130	4
28	Press bed frame	2
29	Stay bar	2
30	Bell block	2
31	Under round nut	1
32	Jack fired seat	1
33	Bolt M8x25	2
34	pressure gauge connection nut	1
35	connection nut	1
36	hydraulic hose fitting	1

SHOP PRESS PARTS LIST (a)



RAM PARTS LIST (b)

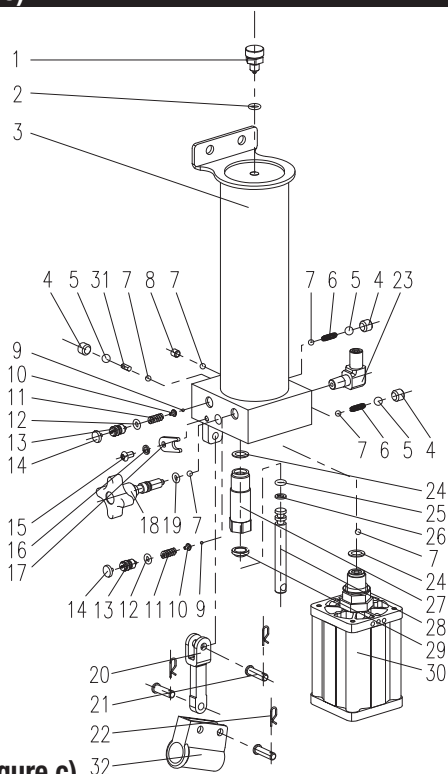


RAM PARTS LIST (figure b)

No.	Description	QTY
1	spacing ring	1
2	screw M6X6	1
3	Y-ring	1
4	back ring	1
5	O-ring	1
6	nylon ring	1
7	piston ring	1
8	O-ring	1
9	ring	1
10	piston	1
11	screw M6X12	1
12	sealing washer	1
13	bolt M8X70	1
14	guide ring	1

No.	Description	QTY
15	upper collar	1
16	toe	1
17	lower securing collar	1
18	boat M20X25	1
19	sealing washer	1
20	gauge coupler	1
21	gauge connection nut	1
22	bolt	1
23	coupler	1
24	dust cap	1
25	cylinder	1
26	spring	1
27	spring nut	1

PUMP PARTS LIST (C)



PUMP PARTS LIST (figure c)

No.	Description	QTY
1	Air bleed screw	1
2	O-ring	1
3	Hydraulic pump unit	1
4	M12X1.25X10	3
5	Ball valve	3
6	Steel ball Spring	2
7	Ball valve	5
8	M8x8	1
9	Ball valve	2
10	Spring plate	2
11	Spring safety valve	2
12	O-ring	2
13	Pressure adjusting screw	2
14	Safety valve cap	2

No.	Description	QTY
5	Bolt M6X10	1
16	Spring washer6	1
17	Limit block	1
18	Release valve lever	1
19	O-ring	1
20	connecting rod	1
21	Pin	3
22	Torsional spring latch	3
23	Angle coupling	1
24	Copper pad	2
25	O-ring	1
26	Ring	2
27	Pump body	1
28	Pump unit	1
29	J-ring	1
30	Air pump	1
31	Steel ball pin	1
32	Hand-held	1

ASSEMBLY INSTRUCTIONS

Use the exploded drawing as your guide to assemble. Lay all parts and assemblies out in front of you before beginning. The following procedure is recommended:

- Attach one base support (19) to left side frame and link components (25) using bolts (21), washers (22), lock washers (23) and nuts (24), then attach another to right side frame and the link components.
- Fix one end of arm support (17) to the base support (19) using bolts (20), washer (11), lock washers (10) and nuts (09), then fix another end to the side frame (12) using bolts (18), washer (11), lock washers (10) and nuts (09).
- Put the press frame in an upright position, attach one upper cross beam (04) to left and right side frames (12) using bolts (05), washer (06), lock washers (07) and nuts (08).
- Put another upper cross beam into position and insert the jack fired seat (32) to the two upper cross beams at the same time, then secure this cross beam to the side frames using bolts (05), washer (06), lock washers (07) and nuts (08).
- Screw the upper round nut onto the cylinder (03), insert the ram into the hole in the jack fired seat (32), then screw the under round nut (31) onto the ram and attach the serrated saddle to the ram.
- Join the two press bed frame (28) together by inserting the four bolts (27) through the stay bar (29) and the holes in the bed frames, then secure the four bolts by tightening the washer (11), lock washers (10) and nuts (09) on it.
- Insert support pins (26) into the holes in the side frames, then insert the joined press bed frame (28) into press frame and onto support pins.
- Attach the pump assembly (14) to the right side frame using bolts (13), washer (11), lock washers (10) and nuts (09), then insert the handle to the handle bracket.
- Connect the hydraulic hose fitting (36) to the connection nut (35) and assemble the pressure gauge (01) to the pressure gauge connection nut (34) which is on the top of cylinder (03).
- Tighten all bolts and screws.

BEFORE FIRST USE

- Before first use of this product, purge away air from the hydraulic system: open the release valve by turning it counterclockwise. Pump several full strokes to eliminate any air in the system.
- Check all parts and conditions, if there is any part broken, stop using it and contact your supplier immediately.

OPERATING INSTRUCTIONS

WARNING! ENSURE THAT YOU READ, UNDERSTAND AND APPLY THE SAFETY INSTRUCTIONS AND WARNINGS BEFORE USE.

- Place the heel block on press bed frame, then insert workpiece onto the heel block.
- Close the release valve by turning it clockwise until it is firmly closed.
- Pump the handle until serrated saddle nears workpiece.
- Align workpiece and ram to ensure center-loading.
- Pump the handle to apply load onto workpiece.
- When work is done, stop pumping the handle, slowly and carefully remove load from workpiece by turning the release valve counterclockwise in small increments.
- Once ram has fully retracted, remove workpiece from bed frame.

MAINTENANCE

- Clean the outside of the press with dry, clean and soft cloth and periodically lubricate the joints and all moving parts with a light oil as needed.
- When not in use, store the press in a dry location with ram and piston fully retracted.
- When press efficiency drops, purge always air from hydraulic system as described before.
- Check the hydraulic oil; remove the oil filler nut on the top of the reservoir, if the oil is not adequate, fill with high quality hydraulic jack oil as necessary, then replace the oil filler nut, purge away air from the hydraulic system.

Disposal

1.The package is made of environment-friendly materials, which can be disposed of at local recycling points.

In the interest of environmental protection do not throw this product in the household waste when it is worn-out, but bring it to a proper disposal. You can get information about collection points and their opening hours at your local administration.

Hydraulic oil must be disposed of in an environmentally sound manner. Ensure disposal by a repair workshop or contact the nearest pollutant collection point.

2. The service life of the machine shall be subject to local laws.

Packing and Transport

1.all packing, lifting, handling, transport and unpacking operations are to be performed exclusively by expert personnel with knowledge of the lift and the contents of this manual.

2.Packing can be lifted or moved by lift trucks, cranes or bridge cranes. In case of slinging, a second person must always take care of the load, in order to avoid dangerous oscillations.

During loading and unloading operation, goods must be handled by vehicles or ships. At the arrival of the goods, verify that all items specified in the delivery notes are included. If finding missing parts, possible defects or damage due to transport.

Other product information

1. If warning labels become blurred or have been removed, replace them.

2. Do not operate this tool under the influence of fatigue, alcohol or any drugs.

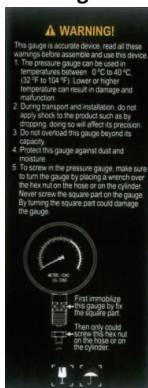
3. Some parts under pressure may have a tendency to spray and explode. Please protect yourself.

4. In order to achieve the optimal working state of the machine, it is necessary to flush and replace the # 13 mechanical hydraulic oil in the hydraulic cylinder every year, or make appropriate adjustments according to the model.

5. Safe operating temperature of the product is 40°F - 105°F(4°C - 41°C).

6. The mass of the middle groove of the product is ≥ 25 kg. Two people are required to operate the middle groove at the same time.

Warning label



Pressure gauge warning

Address: New Long Teng Industry Area,
Changshu Economy Development Zone,
Changshu, Jiangsu, China