

# Instruction Manual

## **Machinery Jack**

TB200



**Note:** The Owner/Operator must read carefully and understand all the information presented here before operation.

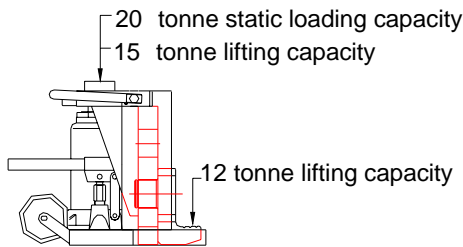
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THANK YOU FOR USING THIS MACHINERY JACK. FOR YOUR SAFETY AND CORRECT OPERATION, PLEASE CAREFULLY READ THIS INSTRUCTION BEFORE USING IT.

**NOTE:** All of the information reported herein is based on data available at the moment of printing. The factory reserves the right to modify its own products at any moment without notice and incurring in any sanction. So it is suggested to always verify possible updates.

1. SPECIFICATIONS



Max. supporting load	(tonne)	Top	20
Max. lifting load	(tonne)	Toe	12
		Top	15
Min. height	(mm)	Toe	40
		Top	325
Lifting distance (mm)			140
Adjusting height of screw rod (mm)			0~60
Acting force of handle (N)			400
Press down force of piston rod (N)			250
Net weight (kg)			68

## **2. SAFETY INSTRUCTIONS**

1. Use machinery jacks only on a firm level; never use on soft grounds.
2. The load to be lifted should never exceed the rated capacity.
3. Never operate the jack beyond its maximum stroke indicated on the label.
4. Before operating the jack ensure the tooth plate is positioned properly.
5. Never position any part of your body under the load.
6. Make a visual inspection before each use the jack. Any jack which appears to be damaged must be removed from service.
7. As an additional safety feature the jack is equipped with a valve to prevent the unit from being overloaded. This unit must not be tampered with.
8. Put a weight on the tooth plate of jack stable. Can not use front end of the tooth plate to lift the weight.
9. If these basic rules are not followed, injury to the user, the jack or the load being lifted may result.
10. Both maintenance and repair must only be carried out by qualified personnel.

## **3. USE & OPERATION**

1. Before using the jack, it is necessary to purge air from the valve system .This can be done by releasing the valve ,then pumping the jack several times.
2. Connect two separated handles tightly.
3. Raising the load, close the valve and pump the jack. Any manipulation of the pressure relief valve is prohibited.
4. Lowering the load, release the valve slowly , the load can be lowered smoothly. Quick -releasing is strictly prohibited.

## 4. MAINTENANCE

1. Lubricate all moving parts at regular intervals.
2. Always keep the jack clean and protected from aggressive conditions.
3. Check the oil level of the jack with the piston fully retracted. Top up if necessary.

**IMPORTANT** : An excess of oil will render the jack inoperative.

4. Use only hydraulic oil, HL or HM types, with an ISO grade of cinematic viscosity of 30 cSt at 40oC or an Engler viscosity of 3 at 50oC.

**VERY IMPORTANT** : never use brake fluid.

5. When ordering spare parts, please state the parts number as shown in the exploded view drawing provided.

## 5. TROUBLE SHOOTING GUIDE

Symptom	Possible cause	Aliments
Jack can not be pumped up properly.	The release valve Is not closed.	1)Release the valve, then pump several times to purge air. 2)close the valve tightly.
Jack can not be released down at the top position.	The release valve is not opened enough.	Release the valve enough.
Jack can not be pumped up to its rated Max . height.	Oil is not enough.	Take off the plug( 37 ),add enough oil.
The oil has leaked around the plunger .	Seals are worm out.	Replace worm seals with new ones ( 12 )and ( 11 ) (in the spare parts bag).

## 6. PARTS LIST

No.	Description	Qty	No.	Description	Qty
1	Handle Grip	1	27	Screw	2
2	Pin	1	28	Filter	1
3	Upper Handle	1	29	O-Ring	1
4	Lower Handle	1	30	T-Ring	1
5	Socket	1	31	O-Ring	1
6	Pin	6	32	Retaining Ring	1
7	Pin	3	33	Piston	1
8	Linkage	1	34	Piston Rod	1
9	Pump Plunger	1	35	Cylinder	1
10	Back-Up Ring	1	36	Oil Plug	1
11	O-Ring	1	37	Oil Tank	1
12	Y-Ring	1	38	Square Ring	1
13	Pump Cylinder	1	39	Cylinder Head	1
14	Washer	1	40	O-Ring	1
15	Ball	3	41	Regulating Screw	1
16	Pin	1	42	Saddle	1
17	Release Pin	1	43	Snap ring	1
18	Square Ring	1	44	Toe Yoke	1
19	Screw	1	45	Toe Mount	1
20	O-Ring	1	46	Hanging Ring	1
21	Screw	1	47	Screw	1
22	Ball Seat	1	48	Nut	1
23	Ball	1	49	Axle	1
24	Snap Ring	1	50	Axle Bush	1
25	Valve Base	1	51	Wheel	1
26	Ball	2	52	Nut	1
53	Pin	1	55	Yoke	1
54	Screw	1	56	Jack	1

# 7. Constructional detail of parts

