

### **USER MANUAL**

#### POWER SCISSOR LIFT TABLE



Model no. 293223, 293224



Owner/Operator must read and understand this manual

1.



WARNING! If operating the lift table improperly, a person may be seriously injured. Therefore, operate properly according to the following instruction

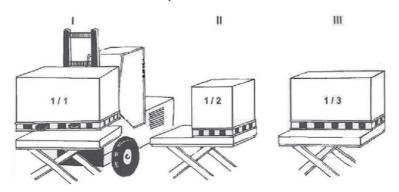
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- ◇ Read & thoroughly understand the Instruction manual completely before using. Follow all safety instructions strictly.
- ♦ It is necessary to check all safety devices before operation.
- ♦ Make sure that there are no obstacles in the working area.
- ♦ Do not put foot or hand in scissors mechanism or through frame.
- ♦ Screw the lifting eyes on the base frame before working on the lift table.
- ♦ Do not overload the lift table. Load should be distributed on the table according to relevant load distribution chart.
- ◇ Pay attention if local voltage and frequency is as same as the input specification of the lift table.
- Use the lift table on flat and solid ground.
- ♦ All the electrical connection and disconnection operations must be carried out by skilled and competent personal.
- ♦ While operation, it is forbidden to contact the moving parts of the lift table.
- ♦ While the lift table moving, it is forbidden to adjust or to move the load.
- ♦ It is forbidden to lift the load, which perhaps does harm to a person or other object.
- ♦ It is forbidden to operate the lift table while a person is under the table.
- ♦ Do not adjust the safety valve of hydraulic power pack.
- ♦ It is forbidden to operate the lift table even if there is small structure distortion.
- ♦ Do not use in an explosive or flammable place.

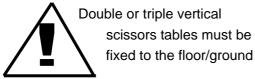
# Note! Maximum load refers to the load being uniformly distributed over the entire platform area.

In accordance with **EN1570**,Safety Requirements for Lifting Tables, the basic requirements are:

- I 100% of the rated load(maximum load) uniformly distributed over the entire platform area.
- II or 50% of the rated load(maximum load) uniformly distributed over half the length of the platform.
- III or 33% of the rated load(maximum load) uniformly distributed over half the width of the platform.



#### 2. INSTALLATION OF LIFT TABLE ON THE FLOOR/GROUND OR IN A PIT



by means of expander bolts or similar. We also recommend that all other lift

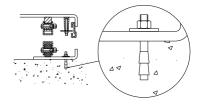


table types, with the exception of mobile units, are securely affixed on the floor to Prevent unintentional movement

#### MECHANICAL/ELECTRICAL INSTALLATION

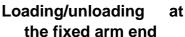
- 1. The base frame of the lift table is not as standard self -supporting . It is important that the flooring is flat and stable and that the installation area or pit, when necessary, is well drained.
- 2. Utilize a lifting sling through the scissor package. Tie the base frame to the platform or the scissor mechanism. Locate the table into the desired position. Turn the fixed arm end to the side where the load will be moved on or off at upper level. See picture below.
- 3. Check the operation of the safety frame on all sides.
- 4. The control device should be positioned so that the operator has a clear view over the lift table and the load at all times when the lift is operated.

## the fixed arm end

#### Pit drawing

- A. Pit length=a+30mm
- B. Pit width=b+30mm
- H. Pit depth=closed height of table+5mm
- a. Platform length
- b. Platform width
- c. Drainage hole (when required)
- d. Tube for external cables and hoses \$\phi\$60mm Lowest height

h.





**CAUTION!** If operating the lift table improperly, a person may be injured. Therefore, operate properly according to the following instruction.

- ♦ The lift table is a movable lifter designed to lift or lower rated load.Do not use it for other purpose.
- ◇ Do not allow a person to operate the lift table, who does not understand its operation.
- ♦ It is forbidden to change the lift table without manufacturer's written admission.
- ♦ It is necessary to use the spare parts designated by manufacturer.
- ♦ Make sure to keep a distance between the table and ambient objects enough to operate the lift table safely.
- Keep the hydraulic system under clean and safe condition.
- $\diamondsuit$  The hydraulic power pack features an electric lowering control. The coils must be fed with the required voltage as described on those coils. The power supply voltage should not exceed  $\pm 10\%$  of the rated required voltage.
- ♦ Always do maintenance and routine check while the lift table is unloaded
- ♦ The lift table is not waterproof and should be used in a dry environment.

#### 4. DAILY INSPECTION

Daily inspection is effective to find the malfunction or fault on the lift table. Before operation, check the lift table according to the following points.



**CAUTION!** Do not use the lift table if any malfunction or fault is found.

- ♦ Check all the terms of WARNING and CAUTION.
- ♦ Check scratches, bending or crack on the lift table.

- Check smooth movement of the table.
- ♦ Check if there is any hydraulic oil leakage.
- Check the vertical creep of the table.
- ♦ Check if all the bolts and nuts are firmly tightened.

#### 5. OPERATING THE LIFT TABLE

#### LOADING

The maximum capacity of the lift table is 1000kg. Load should be distributed on the lift table equably.

#### LIFTING THE TABLE



Ensure the balance of loading. Do not load partially or concentrically.

- ♦ Screw and loose emergency stop switch.
- ♦ Push the UP button and power pack starts to work to lift the load.
- ♦ Loose the UP button and power pack stops working.

#### ■ LOWERING THE TABLE



**WARNING!** <u>Do not put foot or hand in</u> scissors mechanism.

- ♦ Push the DOWN button and the table will lower.
- ♦ Loose the DOWN button and the table will stop.

#### NOTE

- ♦ The table is equipped with an aluminum guard to avoid accidental danger.
- ♦ If aluminum guard strikes an object while the table lowers, stop operation and check the lift table. After making sure no any abnormality, strike the UP button slightly and then the electric system will function as before.

#### ■ EMERGENCY STOP

There are two methods of emergency stop as follows.

- Push down the emergency stop switch and the movement of table stops.
- ♦ Strike aluminum guard upward and the movement of table also stops.

#### ■ TRANSPORTATION

If necessary, the lift table can be transported with attached ringbolts.

- ◇ Pay attention to the maximum capacity of lifting equipment to be used.
- Keep the ringbolts with reasonableness.

#### 6. HYDRAULIC CIRCUIT & ELECTRIC PRINCIPLE DIAGRAM

See Figure 1 & Figure 2.

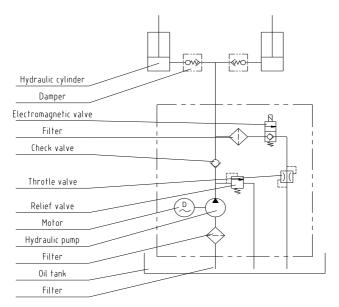
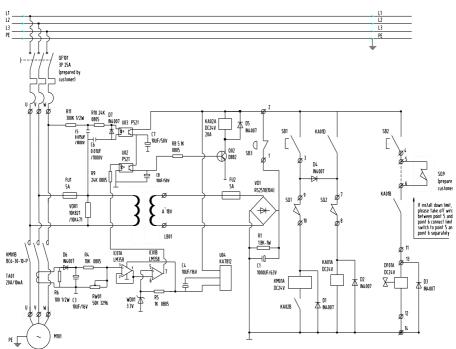


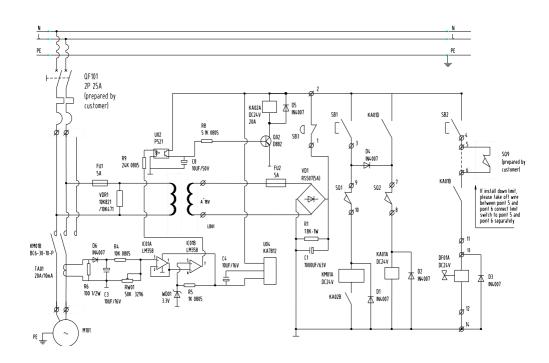
Fig. 1 Hydraulic circuit



No	Туре	Name	Description	Qty
1	LB01	Control power transformer DF30-110V-460V/0-24V 50VA		1
2	F1 F2	Fast melter	5A	2
3	VD1	Rectifier	RS-2510	1
4	VDR1	Voltage dependent resistor	10K/471 10K/821	1
5	R1	Resistor	1.8K/1W	1
6	C1	Electrolytic condenser	1000uF/63V	1
7	KM01	AC contactor	BC-30-10	1
8	KA1 KA2	Middle relay	SRC-24VDC-SH	2
9	D1 D2 D3 D4 D5 D6 D7	Silicon rectifying diode	IN4007	
10	DF01	Electromagnetic valve	DC24V	
11	SB3	Emergency stop button	XB2-ES542C+ZB-BY9101	
12	SB2	Down button	XB2-BA21C	1
13	SB1	Up button	XB2-BA21C	1
14	SQ1	Up limit switch	D4V-8108Z	1
15	SQ2	safety switch		
16	SQ9	Down limit switch	D4V-8108Z(Prepared by customer)	1
17	M101	Pump motor		1
18	QF101	Circuit breaker	C45N3P 25A(Prepared by customer)	1

19	R6	Resistor	100/0.5w	1
20	R4	Resistor	10K/0805	1
21	R5	Resistor	1K/0805	1
22	RW01	Rheostat	50K	1
23	WD01	Stabilovolt tube	3.3V	1
24	C3 C4 C7 C8	Electrolytic condense	10uf/50V 10uf/16V	3
25	IC01	Integrated circuit	LM358	1
26	U04	Integrated circuit	KA7812	1
27	U02 U03	Electric dipole	P521	2
28	TA01	Current transformer	20A	1
29	R9 R10	Resistor	24K/0805	2
30	R8	Resistor	5.1K/0805	1
31	R11	Resistor	300K/0.5W	
32	C5 C6	Electrolytic condenser	0.015uF/1000V 0.01uF/1000V	2
33	Q02	Audion	D882	1

Fig. 2 Electric Principle Diagram (3 P)



No	Туре	Name	Description	Qty
1	LB01	Control power transformer DF30-110V-460V/0-24V 50VA		1
2	F1 F2	Fast melter	5A	2
3	VD1	Rectifier	RS507 (5A)	1
4	VDR1	Voltage dependent resistor	10K/471 10K/821	1
5	R1	Resistor	1.8K/1W	1
6	C1	Electrolytic condenser	1000uF/63V	1
7	KM01	AC contactor	BC-30-10	1
8	KA1 KA2	Middle relay	SRC-24VDC-SH	2
9	D1 D2 D3 D4 D5 D6	Silicon rectifying diode	IN4007	6
10	DF01	Electromagnetic valve	DC24V	1
11	SB3	Emergency stop button	XB2-ES542C+ZB-BY9101	1
12	SB2	Down button	XB2-BA21C	1
13	SB1	Up button	XB2-BA21C	1
14	SQ1	Up limit switch	D4V-8108Z	1
15	SQ2	safety switch		2
16	SQ9	Down limit switch	D4V-8108Z(Prepared by customer)	1
17	M101	Pump motor		1
18	QF101	Circuit breaker	C45N3P 25A(Prepared by customer)	1
19	R6	Resistor	100/0.5w	1
20	R4	Resistor	10K/0805	1
21	R5	Resistor	1K/0805	1
22	RW01	Rheostat	50K	1
23	WD01	Stabilovolt tube	3.3V	1
24	C3 C4 C8	Electrolytic condense	10uf/16V-10uf/50V	3
25	IC01	Integrated circuit	LM358	1
26	U04	Integrated circuit	KA7812	1
27	U02	Electric dipole	P521	1
28	TA01	Current transformer	20A	1
29	R9	Resistor	24K/0805	1
30	R8	Resistor	5.1K/0805	1
31	Q02	Audion	D882	1

Fig. 2 Electric Principle Diagram (2 P)

#### 7. SERVICE INSTRUCTIONS

- Do routine check of fasteners, packing and oil leaking.
- Do routine check of the function of the lift table.
- Before service the lift table, make sure to turn off the AC power supply.
- After service it is necessary to check the function of the lift table again.
- ONLY qualified personnel can do service work.
- Do routine check of the micro-switches on the safety guard.
- Do routine check of the hydraulic system by listening its noise, touch motor's surface.
- Caution: It is necessary to turn off the AC power supply before touch motor's surface.
- Pay attention to clear or even replace the oil filter after operating for a long time.
- Appropriate lubrication is necessary to make the lift table work easily and have a prolonged service life.

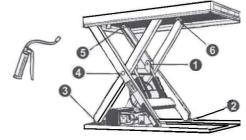
Following table is recommended to service the lift table periodically.

Content	After every 500 hours' working or every 3 months later	After every 2000 hours' working or every year		
Check oil level of oil tank	☆			
Check the cleanliness of oil filter	☆			
Fasten all the connecting parts again	☆			
Check wear and tear of pressure oil pipes	☆			
Check hydraulic cylinder	☆			
Fix main parts tightly again	☆			
Check the function of micro-switches	☆			
Check whole working state of the lift table	☆			
Lubricate all the joints and pivot points	☆			
Check wear and tear of all axial bushes		☆		
Replace hydraulic oil for the first time	Accumulated working ten hours'			
Replace hydraulic oil		☆		
Check oil leaking		☆		
<b>Remark:</b> ☆ stands for proceeding the item.				

#### 8. GREASING POINTS

- 1.Piston rod bearing
- 2.Lower running wheel
- 3.Lower arm fixing
- 4.Arm center
- 5.Upper arm fixing
- 6.Upper running wheel

When greasing the bearings, the Lift Table must not be



loaded! When determining oil levels, bear in mind that the tank contains the greatest amount when the lift table is in its lowest position. Hydraulic oil must be treated as dangerous waste!

#### 9. TROUBLE SHOOTING

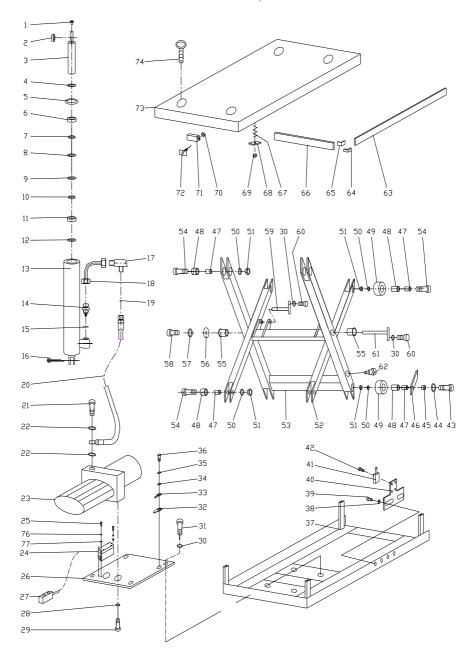
Note: Before service it is necessary to put down the prop lest the table lowers accidentally.

Trouble	Cause	Remedy
Table cannot lift while motor works normally	<ul> <li>◇ Eyebolt has not been removed</li> <li>◇ AC voltage phrases mistake</li> <li>◇ Electromagnetic dysfunctions</li> <li>◇ The table is overloaded</li> </ul>	<ul> <li>◇ Remove eyebolt</li> <li>◇ Correct AC voltage phrase</li> <li>◇ Check the function of electromagnetic valve and repair it</li> <li>◇ Remove excessive load</li> </ul>
Table cannot lift and motor does not work		◇ Replace limit switch
Table cannot lower	<ul> <li>◇ Lowering limit switch or micro-switch on safety guard damaged</li> <li>◇ Electromagnetic valve dysfunctions</li> <li>◇ Safety guard works</li> <li>◇ Something wrong with electric circuit board</li> </ul>	<ul> <li>◇ Replace lowering limit switch or micro-switch.</li> <li>◇ Check the function of electromagnetic valve and repair it</li> <li>◇ Strike the UP button slightly</li> <li>◇ Replace electric circuit board</li> </ul>
Table's legs go over limit position (if existed) while table lowers	<ul> <li>◇ Internal leaking in electromagnetic valve</li> <li>◇ Packing damaged in hydraulic cylinder</li> </ul>	<ul> <li>◇ Repair electromagnetic valve and if necessary replace it</li> <li>◇ Check and replace packing</li> </ul>
Table cannot reach the highest position	<ul><li>◇ Oil not enough</li><li>◇ Limit switch damaged</li></ul>	<ul> <li>◇ Fill enough oil</li> <li>◇ Check and repair limit</li> <li>switch. If necessary, replace it</li> </ul>

The brand of oil is ISO HL32(such as Rando oil R&O32, D.T.E.oil light, Turbo32)

### 10. SPECIFICATIONS

Model		293224	293223	
Capacity (lbs)		8800	8800	
Lowered Heig	ht (in.)	9.4	11.8	
Raised Height	(in.)	41.3	55	
Platform Leng	th (in.)	67	86	
Platform Width	n (in.)	47	47	
Lift Time	(Sec)	22~32	26~36	
Motor	Horsepower (HP)	3P/2.2KW	3P/2.2KW	
IVIOLOI	Voltage (V)	110		
Net Weight	(lbs)	898	1128	



### PARTS LIST: MODEL NO 293223, 293224

1.         Grease cup M6         2         40         Frame of travel switch         1           2.         Bearing GE40ET         2         41         Travel switch (ME-9101)         1           3.         Piston rod         2         42         80lt M5×10         4           4.         Seal cover \$8×50×6.5         2         43         80lt         2           5.         Retaining ring φ95         2         44         Washer         2           6.         Cylinder cover         2         45         Bushing         2           7.         Guide ring         2         46         Prop         2           8.         Snap ring φ100         2         47         Bushing         8           9.         O-ring 95×2.65         2         48         Bushing φ34×φ30×20         16           10.         Snap ring φ50         2         49         Roller         4           11.         Piston         2         50         Spring washer 18         8           12.         Seal ring 16         2         51         Nat M18         8           13.         Cylinder         2         53         External scissors         1 </th <th>NO</th> <th>DESCRIPTION</th> <th>QTY</th> <th>NO</th> <th>DESCRIPTION</th> <th>QTY</th>	NO	DESCRIPTION	QTY	NO	DESCRIPTION	QTY
3. Piston rod	1.	Grease cup M6	2	40	Frame of travel switch	1
4. Seal cover 58×50×6.5  Retaining ring φ95  2	2.	Bearing GE40ET	2	41	Travel switch (ME-9101)	1
5.         Retaining ring φ95         2         44         Washer         2           6.         Cylinder cover         2         45         Bushing         2           7.         Guide ring         2         46         Prop         2           8.         Snap ring φ100         2         47         Bushing φ34×φ30×20         16           9.         O-ring 95×2.65         2         48         Bushing φ34×φ30×20         16           10.         Snap ring φ50         2         49         Roller         4           11.         Piston         2         50         Spring washer 18         8           12.         Seal ring 100×75×22.3         2         51         Nut M18         8           13.         Cylinder         2         52         Internal scissors         1           14.         Hose break valve         2         53         External scissors         1           15.         Seal ring 16         2         54         Bolt         6           16.         Split pin 4×35         2         55         Bushing φ60×φ55×60         2           17.         T joint         1         56         Washer         1	3.	Piston rod	2	42	Bolt M5×10	4
6. Cylinder cover 2 45 Bushing 2 7. Guide ring 2 46 Prop 2 8. Snap ring φ100 2 47 Bushing 8 9. O-ring 95×2.65 2 48 Bushing φ34×φ30×20 16 10. Snap ring φ50 2 49 Roller 4 11. Piston 2 50 Spring washer 18 8 12. Seal ring 100×75×22.3 2 51 Nut M18 8 13. Cylinder 2 52 51 Internal scissors 1 14. Hose break valve 2 53 External scissors 1 15. Seal ring 16 2 54 Bolt 6 16. Split pin 4×35 2 55 Bushing φ60×φ55×60 2 17. T joint 1 56 Washer 1 18. Steel tube 2 57 Spring washer 12 1 19. O-ring 6×1.8 1 58 Hex bolt M12×30 1 20. High pressure hose 1 59 Pin 2 21. Joint 1 60 Hex bolt M8×20 3 22. Seal ring 18 2 61 Pin 1 23. Hydraulic power pack 1 62 Bolt 2 24. Electric box 1 63 Safety frame I 2 25. Bolt M5×10 4 64 Fixed-board 4 27. Control switch 1 66 Safety frame I 2 28. Spring washer 10 2 67 Spring washer 1 6 30. Spring washer 8 7 69 Nut M4 4 31. Bolt M8×12 4 70 Nut M4 32. Indicator φ6 1 71 Safety switch 2 33. Connector lug φ6-4 1 72 Fixed-board 4 34. Washer 6 1 74 Lifting bolt M10 4 35. Spring washer 6 1 76 Spring washer 5 4 36. Washer 5 4 Bolt M10×10 4 36. Bolt M6×12 1 77 Lifting bolt M10 4 37. Chassis 1 76 Spring washer 5 4 38. Washer 6 2 77 Washer 5 4	4.	Seal cover 58×50×6.5	2	43	Bolt	2
7. Guide ring         2         46         Prop         2           8. Snap ring φ100         2         47         Bushing         8           9. O-ring 95×2.65         2         48         Bushing φ34×φ30×20         16           10. Snap ring φ50         2         49         Roller         4           11. Piston         2         50         Spring washer 18         8           12. Seal ring 100×75×22.3         2         51         Nut M18         8           13. Cylinder         2         52         Internal scissors         1           14. Hose break valve         2         53         External scissors         1           15. Seal ring 16         2         54         Bolt         6           16. Split pin 4×35         2         55         Bushing φ60×φ55×60         2           17. Tjoint         1         56         Washer         1           18. Steel tube         2         57         Spring washer 12         1           19. O-ring 6×1.8         1         58         Hex bolt M12×30         1           20. High pressure hose         1         59         Pin         2           21. Joint         1         60	5.	Retaining ring φ95	2	44	Washer	2
8. Snap ring φ100	6.	Cylinder cover	2	45	Bushing	2
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13.         Cylinder         2         52         Internal scissors         1           14.         Hose break valve         2         53         External scissors         1           15.         Seal ring 16         2         54         Bolt         6           16.         Split pin 4×35         2         55         Bushing φ60×φ55×60         2           17.         T joint         1         56         Washer         1           18.         Steel tube         2         57         Spring washer 12         1           19.         O-ring 6×1.8         1         58         Hex bolt M12×30         1           20.         High pressure hose         1         59         Pin         2           21.         Joint         1         60         Hex bolt M12×30         1           20.         High pressure hose         1         59         Pin         2           21.         Joint         1         60         Hex bolt M12×30         1           22.         Seal ring 18         2         61         Pin         1           23.         Hydraulic power pack         1         62         Bolt         2	11.	Piston	2	50	Spring washer 18	8
13.         Cylinder         2         52         Internal scissors         1           14.         Hose break valve         2         53         External scissors         1           15.         Seal ring 16         2         54         Bolt         6           16.         Split pin 4×35         2         55         Bushing φ60×φ55×60         2           17.         T joint         1         56         Washer         1           18.         Steel tube         2         57         Spring washer 12         1           19.         O-ring 6×1.8         1         58         Hex bolt M12×30         1           20.         High pressure hose         1         59         Pin         2           21.         Joint         1         60         Hex bolt M12×30         1           20.         High pressure hose         1         59         Pin         2           21.         Joint         1         60         Hex bolt M8×20         3           22.         Seal ring 18         2         61         Pin         1           23.         Hydraulic power pack         1         62         Bolt         2	12.	Seal ring 100×75×22.3	2	51	Nut M18	8
15.       Seal ring 16       2       54       Bolt       6         16.       Split pin 4×35       2       55       Bushing φ60×φ55×60       2         17.       T joint       1       56       Washer       1         18.       Steel tube       2       57       Spring washer 12       1         19.       O-ring 6×1.8       1       58       Hex bolt M12×30       1         20.       High pressure hose       1       59       Pin       2         21.       Joint       1       60       Hex bolt M12×30       1         22.       Seal ring 18       2       61       Pin       2         21.       Joint       1       60       Hex bolt M8×20       3         22.       Seal ring 18       2       61       Pin       1         23.       Hydraulic power pack       1       62       Bolt       2         24.       Electric box       1       63       Safety frame I       2         25.       Bolt M5×10       4       64       Fixed-board       4         26.       Pump pack base       1       65       Connected-board       4         27	13.	<u> </u>	2	52	Internal scissors	1
16.       Split pin 4×35       2       55       Bushing φ60×φ55×60       2         17.       T joint       1       56       Washer       1         18.       Steel tube       2       57       Spring washer 12       1         19.       O-ring 6×1.8       1       58       Hex bolt M12×30       1         20.       High pressure hose       1       59       Pin       2         21.       Joint       1       60       Hex bolt M8×20       3         22.       Seal ring 18       2       61       Pin       1         23.       Hydraulic power pack       1       62       Bolt       2         24.       Electric box       1       63       Safety frame I       2         25.       Bolt M5×10       4       64       Fixed-board       4         26.       Pump pack base       1       65       Connected-board       4         27.       Control switch       1       66       Safety frame II       2         28.       Spring washer 10       2       67       Spring       6         29.       Hex bolt M10×20       2       68       Buffer-board       6	14.	Hose break valve	2	53	External scissors	1
16.       Split pin 4×35       2       55       Bushing φ60×φ55×60       2         17.       T joint       1       56       Washer       1         18.       Steel tube       2       57       Spring washer 12       1         19.       O-ring 6×1.8       1       58       Hex bolt M12×30       1         20.       High pressure hose       1       59       Pin       2         21.       Joint       1       60       Hex bolt M8×20       3         22.       Seal ring 18       2       61       Pin       1         23.       Hydraulic power pack       1       62       Bolt       2         24.       Electric box       1       63       Safety frame I       2         25.       Bolt M5×10       4       64       Fixed-board       4         26.       Pump pack base       1       65       Connected-board       4         27.       Control switch       1       66       Safety frame II       2         28.       Spring washer 10       2       67       Spring       6         29.       Hex bolt M10×20       2       68       Buffer-board       6						6
17. T joint       1       56 Washer       1         18. Steel tube       2       57 Spring washer 12       1         19 O-ring 6×1.8       1       58 Hex bolt M12×30       1         20 High pressure hose       1       59 Pin       2         21 Joint       1       60 Hex bolt M8×20       3         22 Seal ring 18       2       61 Pin       1         23 Hydraulic power pack       1       62 Bolt       2         24 Electric box       1       63 Safety frame I       2         25 Bolt M5×10       4       64 Fixed-board       4         26 Pump pack base       1       65 Connected-board       4         27 Control switch       1       66 Safety frame II       2         28 Spring washer 10       2       67 Spring       6         29 Hex bolt M10×20       2       68 Buffer-board       6         30 Spring washer 8       7       69 Nut M8       6         31 Bolt M8×12       4       70 Nut M4       4         32 Indicator φ6       1       71 Safety switch       2         33 Connector lug φ6-4       1       72 Fixed-board       4         34 Washer 6       1       74 Lifting bolt M10	16.		2	55	Bushing φ60×φ55×60	2
18. Steel tube       2       57 Spring washer 12       1         19 O-ring 6×1.8       1       58 Hex bolt M12×30       1         20 High pressure hose       1       59 Pin       2         21 Joint       1       60 Hex bolt M8×20       3         22 Seal ring 18       2       61 Pin       1         23 Hydraulic power pack       1       62 Bolt       2         24 Electric box       1       63 Safety frame I       2         25 Bolt M5×10       4       64 Fixed-board       4         26 Pump pack base       1       65 Connected-board       4         27 Control switch       1       66 Safety frame II       2         28 Spring washer 10       2       67 Spring       6         29 Hex bolt M10×20       2       68 Buffer-board       6         30 Spring washer 8       7       69 Nut M8       6         31 Bolt M8×12       4       70 Nut M4       4         32 Indicator φ6       1       71 Safety switch       2         33 Connector lug φ6-4       1       72 Fixed-board       4         34 Washer 6       1       73 Table       1         35 Spring washer 6       1       74 Lifting bolt M10	17.		1	56	Washer	1
19       O-ring 6×1.8       1       58       Hex bolt M12×30       1         20       High pressure hose       1       59       Pin       2         21       Joint       1       60       Hex bolt M8×20       3         22       Seal ring 18       2       61       Pin       1         23       Hydraulic power pack       1       62       Bolt       2         24       Electric box       1       63       Safety frame I       2         25       Bolt M5×10       4       64       Fixed-board       4         26       Pump pack base       1       65       Connected-board       4         27       Control switch       1       66       Safety frame II       2         28       Spring washer 10       2       67       Spring       6         29       Hex bolt M10×20       2       68       Buffer-board       6         30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2 <t< td=""><td>18.</td><td>*</td><td>2</td><td>57</td><td>Spring washer 12</td><td>1</td></t<>	18.	*	2	57	Spring washer 12	1
20       High pressure hose       1       59       Pin       2         21       Joint       1       60       Hex bolt M8×20       3         22       Seal ring 18       2       61       Pin       1         23       Hydraulic power pack       1       62       Bolt       2         24       Electric box       1       63       Safety frame I       2         25       Bolt M5×10       4       64       Fixed-board       4         26       Pump pack base       1       65       Connected-board       4         27       Control switch       1       66       Safety frame II       2         28       Spring washer 10       2       67       Spring       6         29       Hex bolt M10×20       2       68       Buffer-board       6         30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4	19	O-ring 6×1.8	1	58		1
21       Joint       1       60       Hex bolt M8×20       3         22       Seal ring 18       2       61       Pin       1         23       Hydraulic power pack       1       62       Bolt       2         24       Electric box       1       63       Safety frame I       2         25       Bolt M5×10       4       64       Fixed-board       4         26       Pump pack base       1       65       Connected-board       4         27       Control switch       1       66       Safety frame II       2         28       Spring washer 10       2       67       Spring       6         29       Hex bolt M10×20       2       68       Buffer-board       6         30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35 </td <td>20</td> <td>*</td> <td>1</td> <td>59</td> <td>Pin</td> <td>2</td>	20	*	1	59	Pin	2
23       Hydraulic power pack       1       62       Bolt       2         24       Electric box       1       63       Safety frame I       2         25       Bolt M5×10       4       64       Fixed-board       4         26       Pump pack base       1       65       Connected-board       4         27       Control switch       1       66       Safety frame II       2         28       Spring washer 10       2       67       Spring       6         29       Hex bolt M10×20       2       68       Buffer-board       6         30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1	21	<del></del>	1	60	Hex bolt M8×20	3
24       Electric box       1       63       Safety frame I       2         25       Bolt M5×10       4       64       Fixed-board       4         26       Pump pack base       1       65       Connected-board       4         27       Control switch       1       66       Safety frame II       2         28       Spring washer 10       2       67       Spring       6         29       Hex bolt M10×20       2       68       Buffer-board       6         30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1         37       Chassis       1       76       Spring washer 5       4	22	Seal ring 18	2	61	Pin	1
24       Electric box       1       63       Safety frame I       2         25       Bolt M5×10       4       64       Fixed-board       4         26       Pump pack base       1       65       Connected-board       4         27       Control switch       1       66       Safety frame II       2         28       Spring washer 10       2       67       Spring       6         29       Hex bolt M10×20       2       68       Buffer-board       6         30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1         37       Chassis       1       76       Spring washer 5       4	23	Hydraulic power pack	1	62	Bolt	2
26       Pump pack base       1       65       Connected-board       4         27       Control switch       1       66       Safety frame II       2         28       Spring washer 10       2       67       Spring       6         29       Hex bolt M10×20       2       68       Buffer-board       6         30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1         37       Chassis       1       76       Spring washer 5       4         38       Washer 6       2       77       Washer 5       4	24		1	63	Safety frame I	2
27     Control switch     1     66     Safety frame II     2       28     Spring washer 10     2     67     Spring     6       29     Hex bolt M10×20     2     68     Buffer-board     6       30     Spring washer 8     7     69     Nut M8     6       31     Bolt M8×12     4     70     Nut M4     4       32     Indicator φ6     1     71     Safety switch     2       33     Connector lug φ6-4     1     72     Fixed-board     4       34     Washer 6     1     73     Table     1       35     Spring washer 6     1     74     Lifting bolt M10     4       36     Bolt M6×12     1     75     Lifting bolt M16     1       37     Chassis     1     76     Spring washer 5     4       38     Washer 6     2     77     Washer 5     4	25	Bolt M5×10	4	64	Fixed-board	4
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29       Hex bolt M10×20       2       68       Buffer-board       6         30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1         37       Chassis       1       76       Spring washer 5       4         38       Washer 6       2       77       Washer 5       4	27	Control switch	1	66	Safety frame II	2
30       Spring washer 8       7       69       Nut M8       6         31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1         37       Chassis       1       76       Spring washer 5       4         38       Washer 6       2       77       Washer 5       4	28	Spring washer 10	2	67	Spring	6
31       Bolt M8×12       4       70       Nut M4       4         32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1         37       Chassis       1       76       Spring washer 5       4         38       Washer 6       2       77       Washer 5       4	29	Hex bolt M10×20	2	68	Buffer-board	6
32       Indicator φ6       1       71       Safety switch       2         33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1         37       Chassis       1       76       Spring washer 5       4         38       Washer 6       2       77       Washer 5       4	30	Spring washer 8	7	69	Nut M8	6
33       Connector lug φ6-4       1       72       Fixed-board       4         34       Washer 6       1       73       Table       1         35       Spring washer 6       1       74       Lifting bolt M10       4         36       Bolt M6×12       1       75       Lifting bolt M16       1         37       Chassis       1       76       Spring washer 5       4         38       Washer 6       2       77       Washer 5       4	31	Bolt M8×12	4	70	Nut M4	4
34     Washer 6     1     73     Table     1       35     Spring washer 6     1     74     Lifting bolt M10     4       36     Bolt M6×12     1     75     Lifting bolt M16     1       37     Chassis     1     76     Spring washer 5     4       38     Washer 6     2     77     Washer 5     4	32	· ·	1	71	Safety switch	2
35         Spring washer 6         1         74         Lifting bolt M10         4           36         Bolt M6×12         1         75         Lifting bolt M16         1           37         Chassis         1         76         Spring washer 5         4           38         Washer 6         2         77         Washer 5         4			-			
36     Bolt M6×12     1     75     Lifting bolt M16     1       37     Chassis     1     76     Spring washer 5     4       38     Washer 6     2     77     Washer 5     4						
37         Chassis         1         76         Spring washer 5         4           38         Washer 6         2         77         Washer 5         4		<u> </u>				
38 Washer 6 2 77 Washer 5 4					<u> </u>	
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