

## LOW PROFILE STATIC TABLE

## OPERATING PROCEDURE

Read these instructions carefully before using your Elevation scissor table. Once these instructions have been read and understood they should be stored in an accessible place where they can be referred to at any time

### General information

This scissor table is made of high quality steel and is designed to give you a durable, reliable and easy to use product. For your safety and correct operation, please carefully read this instruction manual before using it.

**NOTE: All of the information reported herein is based on data available at the time**

Technical details (see figure 1 & 2)

Model	HU1000	HY1001
Capacity	1000kg	
Collapsed height	85mm	
Max height	860mm	
Platform LxW	1425mm x 1140mm	
Lifting time	<20s	
Motor	Output (w)	750
	Voltage (v)	400
	Rev/min	1400
	Protection Class	IP.54
	Insulation Class	F.
Net weight	280kg	295kg

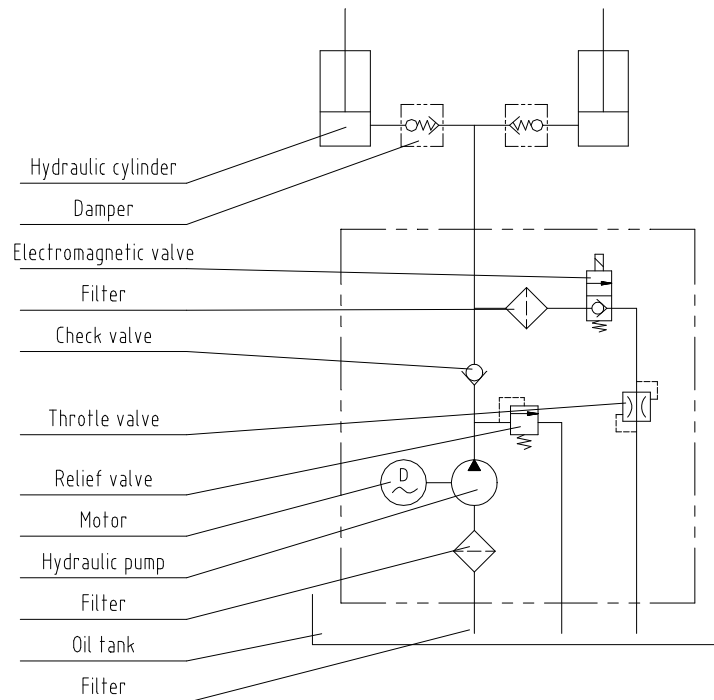
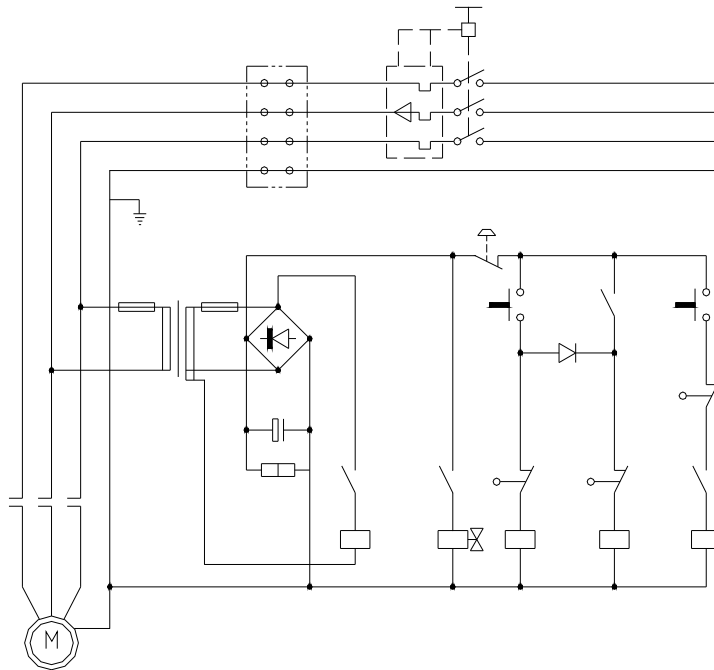


Fig. 1 Hydraulic circuit



**Fig. 2** Electric Principle Diagram

**Maintenance**

**Daily checks and maintenance**

Daily checks of the scissor table can limit wear as much as possible

- Do routine checks of fasteners and for oil leaks.
- All nuts and bolts should be checked and tightened.
- Do routine check of the function of the lift table.
- Before servicing 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 touching motor's surface.**

**Oil**

Please check the oil level every three months. The oil can be hydraulic oil: **ISO VG32**, its viscosity should be 32cSt at 40°C. Clean thoroughly or replace oil filter after operating for prolonged periods.

**Lubrication**

All bearings and axles are fitted with long-life grease at the factory. Lubrication points should be re greased with long-life grease at monthly intervals, or each time the table has been cleaned thoroughly.

**Service Instructions**

Checks	Every Three Months	Every Year
Check oil level of oil tank	X	
Check the cleanliness of oil filter	X	
Fasten all the connecting parts again	X	
Check wear and tear of pressure oil pipes	X	
Check hydraulic cylinder	X	
Fix main parts tightly	X	
Check the function of micro-switches	X	
Check whole working state of the lift table	X	
Lubricate all the joints and pivot points	X	
Check wear and tear of all axle bushes		X
Replace hydraulic oil for the first time	After ten hours of use	
Replace hydraulic oil		X
Check oil leaking		X

## Operation Instructions

- **Loading** The maximum capacity of the lift table is 1000kg. Load should be evenly distributed.
- **To lift the table** unscrew the emergency stop button and push the UP button. Let go of the UP button and lifting will stop.
- **To lower the table** push the DOWN button. The table will stop when the button is released.
- **NOTE:** the table is fitted with an aluminium safety guard. If when lowering the guard strikes an object, cease operation and check for damage. To begin lowering again, first raise the table slightly then continue to lower.
- **Emergency stop:** There are two methods of emergency stop. Push the emergency stop button and the table will stop immediately. Alternatively strike the aluminium guard upwards
- **Transportation:** If necessary the table can be transported with attached ringbolts. Pay attention to the maximum capacity of lifting equipment to be used.

## Safe Operation

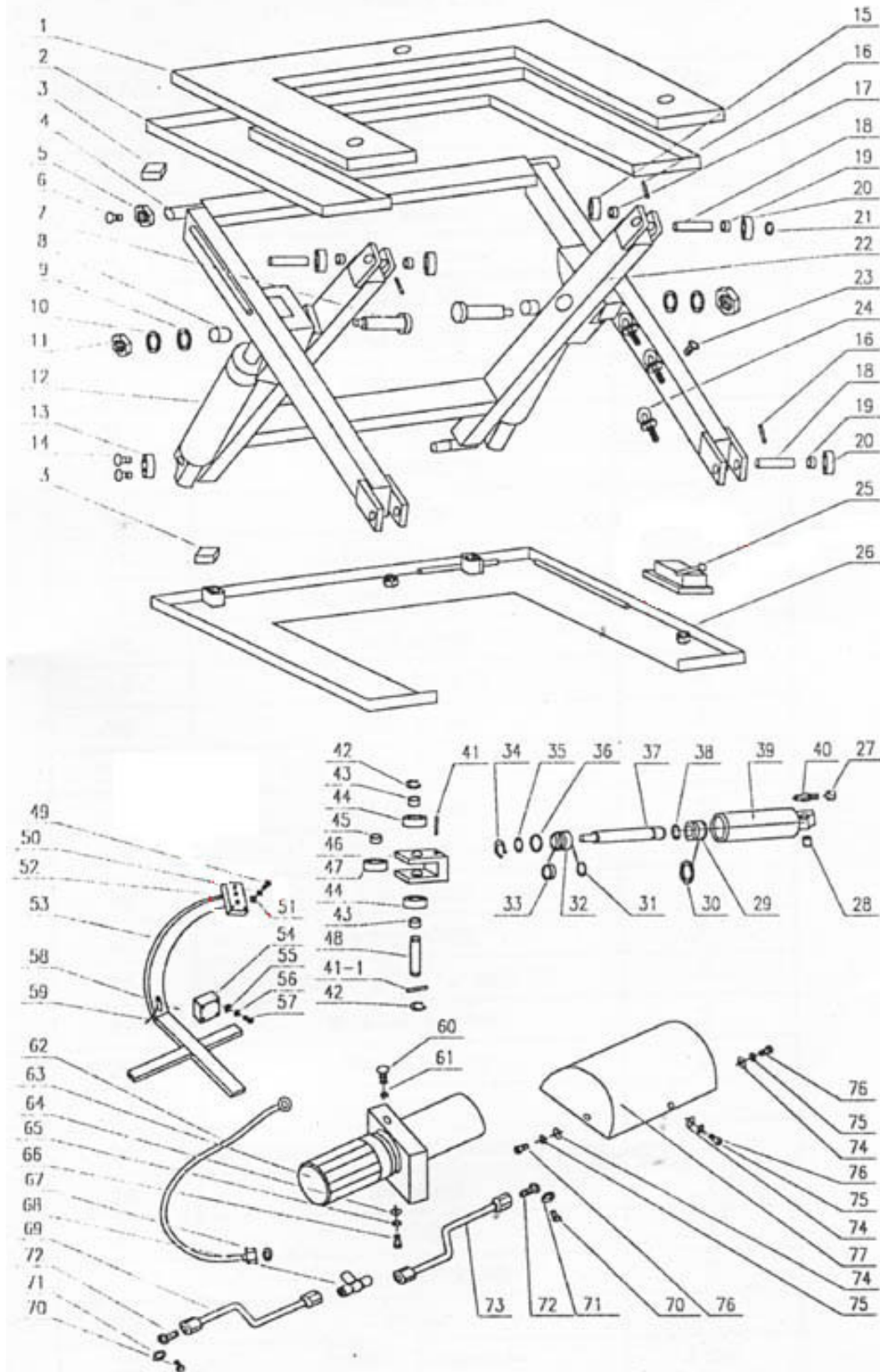
- **Operator should read all warning signs and instructions before using this truck**
- Read & thoroughly understand the Instruction Manual before using. Follow all safety instructions strictly.
- It is necessary to check all safety devices before operation.
- Make sure that there are no obstacles in the working area.
- Do not put any body parts in scissor 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.
- Check 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 personnel.
- While in operation do not touch the moving parts of the lift table or adjust or move the load.
- Do not operate the table while working underneath.
- Do not adjust the safety valve of hydraulic power pack.
- Do not operate the table if there is any structural damage.
- Do not use in an explosive or flammable place.
- The lift table is a movable lifter designed to lift or lower rated load. Do not use it for other purpose.
- Only trained persons may use the table.
- Do not change the scissor table without manufacturers permission, and use spare parts supplied by manufacturer.
- 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 carry out maintenance checks while the lift table is unloaded.
- The table is not waterproof and should be used in a dry environment

## Trouble Shooting

Note: Before servicing it is necessary to screw two eyebolts into relevant screw-holes on the base in case the table lowers accidentally.

Fault	Cause	Remedy
Table not lifting, motor working normally	<ul style="list-style-type: none"> <li>• Eyebolt has not been removed</li> <li>• AC voltage fault</li> <li>• Electromagnetic malfunction</li> </ul>	<ul style="list-style-type: none"> <li>• Remove eyebolt</li> <li>• Correct AC voltage</li> <li>• Check the function of electromagnetic valve and repair it</li> </ul>
Table not lifting, motor not working	<ul style="list-style-type: none"> <li>• The table is overloaded</li> <li>• Lowering limit switch (if exists!) damaged</li> </ul>	<ul style="list-style-type: none"> <li>• Remove excessive load</li> <li>• Replace limit switch</li> </ul>
Table not lowering	<ul style="list-style-type: none"> <li>• Lowering limit switch or micro-switch on safety guard damaged</li> <li>• Electromagnetic valve malfunction</li> <li>• Safety trip bar activated</li> <li>• Problem with electric circuit board</li> </ul>	<ul style="list-style-type: none"> <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 in place) while table lowers	<ul style="list-style-type: none"> <li>• Internal leaking in electromagnetic valve</li> <li>• Seals damaged in hydraulic cylinder</li> </ul>	<ul style="list-style-type: none"> <li>• Repair electromagnetic valve and if necessary replace it</li> <li>• Check and replace seals</li> </ul>
Table cannot reach the highest position	<ul style="list-style-type: none"> <li>• Not enough oil</li> <li>• Limit switch damaged</li> </ul>	<ul style="list-style-type: none"> <li>• Refill oil</li> <li>• Check and repair limit switch. If necessary, replace it</li> </ul>

# LIFT TABLE



**PART LIST**

Item No.	Description	Q'ty	Item No.	Description	Q'ty
1	Table	1	41-1	Spring straight pin	2
2	Safety guard	1 set	42	Retaining ring for axle 22	4
3	Nylon washer	4	43	Small axial bush	4
4	External scissor	1	44	Roller	4
5	Locknut M6	4	45	Axial bush	2
6	Bolt M6x50	4	46	Roller base	2
7	Middle axle	2	47	Middle bush	2
8	Bush	2	48	Roller axle	2
9	Nylon washer	2	49	Screw M3x10	2
10	Washer	2	50	Spring washer 3	2
11	Locknut M16x2	2	51	Washer 3	2
12	Hydraulic cylinder	2	52	Control switch	1
13	Axial cover	2	53	Hydraulic-pump unit base	1
14	Screw M5x15	4	54	Electrical box	1
15	Short wheel	4	55	Washer 4	2
16	Spring straight pin 5x50	4	56	Spring washer 4	2
17	Short bush	4	57	Screw	2
18	Nylon wheel axle	2	58	Control wire	1 set
19	Long bush	2	59	Power supply wire	1
20	Long wheel	2	60	Pipe-joint	1
21	Retaining ring for axle 20	2	61	washer 14	2
22	Internal scissor	1	62	Hose	1
23	Screw M6x12	3	63	Hydraulic power pack	1
24	Eyebolt	3	64	Spring washer 10	2
25	Up-limit switch	1	65	Washer 10	2
26	Chassis	1	66	Screw M10x20	2
27	Bush	2	67	O-ringφ10x1.9	1
28	Lager axial bush	2	68	T joint	1
29	Piston	2	69	Short tube assembly	1
30	Packing Assembly	2 set	70	Joint bolt	2
31	O-ring φ25x2.65	2	71	Washer 12	4
32	Cylinder cover	2	72	Joint pin	2
33	Packing UHS25	2	73	Long tube assembly	1
34	Retaining ring for axle	2	74	Washer 6	3
35	Snap Ring	2	75	Washer 6	3
36	O-ring φ55x2.65	2	76	Screw M6x12	3
37	Piston rod	2	77	Power-unit cover	1
38	Snap Ring	2	75	Washer 6	3
39	Cylinder tube	2	76	Screw M6x12	3
40	Anti-explosive valve	2	77	Power-unit cover	1
41	Spring straight pinφ4x40	2	76	Screw M6x12	3