

OPERATOR'S MANUAL

Statest.

HYDRAULIC LIFT TABLE MODEL: HLT-4400

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SEMax 2000 Kg BALLEGUE



Table of Contents

THANK YOU & WARRANTY	1
INTRODUCTION	3
GENERAL NOTES	3
SAFETY INSTRUCTIONS	4
SAFETY PRECAUTIONS	6
Dear Valued Customer:	
TECHNICAL SPECIFICATIONS	9
TECHNICAL SUPPORT	. 9
UNPACKING AND CHECKING CONTENTS	
Cleaning	10
TRANSPORTING AND LIFTING	11
INSTALLATION	
Anchoring the Machine	15
ELECTRICAL	16
OPERATION	
LUBRICATION AND MAINTENANCE	
Service Schedule	
Hydraulic Oil	
Oil Disposal	
Greasing Points	
HYDRAULIC CIRCUIT DIAGRAM	
ELECTRIC CIRCUIT DIAGRAM	
Electric Circuit Component Listing	
TROUBLE SHOOTING	
LIFT TABLE PARTS DIAGRAM	
Lift Table Parts List	
ELECTRICAL BOX PARTS DIAGRAM	
Electrical Box Parts List	28



THANK YOU & WARRANTY

Thank you for your purchase of a machine from Baileigh Industrial. We hope that you find it productive and useful to you for a long time to come.

Inspection & Acceptance. Buyer shall inspect all Goods within ten (10) days after receipt thereof. Buyer's payment shall constitute final acceptance of the Goods and shall act as a waiver of the Buyer's rights to inspect or reject the goods unless otherwise agreed. If Buyer rejects any merchandise, Buyer must first obtain a Returned Goods Authorization ("RGA") number before returning any goods to Seller. Goods returned without a RGA will be refused. Seller will not be responsible for any freight costs, damages to goods, or any other costs or liabilities pertaining to goods returned without a RGA. Seller shall have the right to substitute a conforming tender. Buyer will be responsible for all freight costs to and from Buyer and repackaging costs, if any, if Buyer refuses to accept shipment. If Goods are returned in unsalable condition, Buyer shall be responsible for full value of the Goods. Buyer may not return any special-order Goods. Any Goods returned hereunder shall be subject to a restocking fee equal to 30% of the invoice price.

Specifications. Seller may, at its option, make changes in the designs, specifications or components of the Goods to improve the safety of such Goods, or if in Seller's judgment, such changes will be beneficial to their operation or use. Buyer may not make any changes in the specifications for the Goods unless Seller approves of such changes in writing, in which event Seller may impose additional charges to implement such changes.

Limited Warranty. Seller warrants to the original end-user that the Goods manufactured or provided by Seller under this Agreement shall be free of defects in material or workmanship for a period of twelve (12) months from the date of purchase, provided that the Goods are installed, used, and maintained in accordance with any instruction manual or technical guidelines provided by the Seller or supplied with the Goods, if applicable. The original end-user must give written notice to Seller of any suspected defect in the Goods prior to the expiration of the warranty period. The original end-user must also obtain a RGA from Seller prior to returning any Goods to Seller for warranty service under this paragraph. Seller will not accept any responsibility for Goods returned without a RGA. The original end-user shall be responsible for all costs and expenses associated with returning the Goods to Seller for warranty service. In the event of a defect, Seller, at its sole option, shall repair or replace the defective Goods or refund to the original end-user the purchase price for such defective Goods. Goods are not eligible for replacement or return after a period of 30 days from date of receipt. The foregoing warranty is Seller's sole obligation, and the original end-user's exclusive remedy, with regard to any defective Goods. This limited warranty does not apply to: (a) die sets, tooling, and saw blades; (b) periodic or routine maintenance and setup, (c) repair or replacement of the Goods due to normal wear and tear, (d) defects or damage to the Goods resulting from misuse, abuse, neglect, or accidents, (f) defects or damage to the Goods resulting from improper or unauthorized alterations, modifications, or changes; and (f) any Goods that has not been installed and/or maintained in accordance with the instruction manual or technical guidelines provided by Seller.

EXCLUSION OF OTHER WARRANTIES. THE FOREGOING LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ANY AND ALL OTHER EXPRESS, STATUTORY OR IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED. NO WARRANTY IS MADE WHICH EXTENDS BEYOND THAT WHICH IS EXPRESSLY CONTAINED HEREIN.

Limitation of Liability. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER OR ANY OTHER PARTY FOR ANY INCIDENTIAL, CONSEQUENTIAL OR SPECIAL DAMAGES (INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR DOWN TIME) ARISING FROM OR IN MANNER CONNECTED WITH THE GOODS, ANY BREACH BY SELLER OR ITS AGENTS OF THIS AGREEMENT, OR ANY OTHER CAUSE WHATSOEVER, WHETHER BASED ON CONTRACT, TORT OR ANY OTHER THEORY OF LIABILITY. BUYER'S REMEDY WITH RESPECT TO ANY CLAIM ARISING UNDER THIS AGREEMENT IS STRICTLY LIMITED TO NO MORE THAN THE AMOUNT PAID BY THE BUYER FOR THE GOODS.



Force Majuere. Seller shall not be responsible for any delay in the delivery of, or failure to deliver, Goods due to causes beyond Seller's reasonable control including, without limitation, acts of God, acts of war or terrorism, enemy actions, hostilities, strikes, labor difficulties, embargoes, non-delivery or late delivery of materials, parts and equipment or transportation delays not caused by the fault of Seller, delays caused by civil authorities, governmental regulations or orders, fire, lightening, natural disasters or any other cause beyond Seller's reasonable control. In the event of any such delay, performance will be postponed by such length of time as may be reasonably necessary to compensate for the delay.

Installation. If Buyer purchases any Goods that require installation, Buyer shall, at its expense, make all arrangements and connections necessary to install and operate the Goods. Buyer shall install the Goods in accordance with any Seller instructions and shall indemnify Seller against any and all damages, demands, suits, causes of action, claims and expenses (including actual attorneys' fees and costs) arising directly or indirectly out of Buyer's failure to properly install the Goods.

Work By Others; Safety Devices. Unless agreed to in writing by Seller, Seller has no responsibility for labor or work performed by Buyer or others, of any nature, relating to design, manufacture, fabrication, use, installation or provision of Goods. Buyer is solely responsible for furnishing, and requiring its employees and customers to use all safety devices, guards and safe operating procedures required by law and/or as set forth in manuals and instruction sheets furnished by Seller. Buyer is responsible for consulting all operator's manuals, ANSI or comparable safety standards, OSHA regulations and other sources of safety standards and regulations applicable to the use and operation of the Goods.

Remedies. Each of the rights and remedies of Seller under this Agreement is cumulative and in addition to any other or further remedies provided under this Agreement or at law or equity.

Attorney's Fees. In the event legal action is necessary to recover monies due from Buyer or to enforce any provision of this Agreement, Buyer shall be liable to Seller for all costs and expenses associated therewith, including Seller's actual attorneys' fees and costs.

Governing Law/Venue. This Agreement shall be construed and governed under the laws of the State of Wisconsin, without application of conflict of law principles. Each party agrees that all actions or proceedings arising out of or in connection with this Agreement shall be commenced, tried, and litigated only in the state courts sitting in Manitowoc County, Wisconsin or the U.S. Federal Court for the Eastern District of Wisconsin. Each party waives any right it may have to assert the doctrine of "forum non conveniens" or to object to venue to the extent that any proceeding is brought in accordance with this section. Each party consents to and waives any objection to the exercise of personal jurisdiction over it by courts described in this section. Each party waives to the fullest extent permitted by applicable law the right to a trial by jury.

Summary of Return Policy.

- 10 Day acceptance period from date of delivery. Damage claims and order discrepancies will not be accepted after this time.
- You must obtain a Baileigh issued RGA number PRIOR to returning any materials.
- Returned materials must be received at Baileigh in new condition and in original packaging.
- Altered items are not eligible for return.
- Buyer is responsible for all shipping charges.
- A 30% re-stocking fee applies to all returns.

Baileigh Industrial makes every effort to ensure that our posted specifications, images, pricing and product availability are as correct and timely as possible. We apologize for any discrepancies that may occur. Baileigh Industrial reserves the right to make any and all changes deemed necessary in the course of business including but not limited to pricing, product specifications, quantities, and product availability.

For Customer Service & Technical Support:

Please contact one of our knowledgeable Sales and Service team members at: (920) 684-4990 or e-mail us at <u>sales@baileigh.com</u>



INTRODUCTION

The quality and reliability of the components assembled on a Baileigh Industrial machine guarantee near perfect functioning, free from problems, even under the most demanding working conditions. However if a situation arises, refer to the manual first. If a solution cannot be found, contact the distributor where you purchased our product. Make sure you have the serial number and production year of the machine (stamped on the nameplate). For replacement parts refer to the assembly numbers on the parts list drawings.

Our technical staff will do their best to help you get your machine back in working order.

In this manual you will find: (when applicable)

- Safety procedures
- Correct installation guidelines
- Description of the functional parts of the machine
- Capacity charts
- Set-up and start-up instructions
- Machine operation
- Scheduled maintenance
- Parts lists

GENERAL NOTES

After receiving your equipment remove the protective container. Do a complete visual inspection, and if damage is noted, **photograph it for insurance claims** and contact your carrier at once, requesting inspection. Also contact Baileigh Industrial and inform them of the unexpected occurrence. Temporarily suspend installation.

Take necessary precautions while loading / unloading or moving the machine to avoid any injuries.

Your machine is designed and manufactured to work smoothly and efficiently. Following proper maintenance instructions will help ensure this. Try and use original spare parts, whenever possible, and most importantly; **DO NOT** overload the machine or make any modifications.

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Note: This symbol refers to useful information throughout the manual.



IMPORTANT PLEASE READ THIS OPERATORS MANUAL CAREFULLY

It contains important safety information, instructions, and necessary operating procedures. The continual observance of these procedures will help increase your production and extend the life of the equipment.



SAFETY INSTRUCTIONS

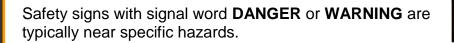
LEARN TO RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, <u>BE ALERT TO THE</u> <u>POTENTIAL FOR PERSONAL INJURY!</u>

Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS

A signal word – **DANGER**, **WARNING**, or **CAUTION** is used with the safety alert symbol. **DANGER** identifies a hazard or unsafe practice that will result in severe **Injury or Death**.



General precautions are listed on **CAUTION** safety signs. **CAUTION** also calls attention to safety messages in this manual.







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CAUTION





SAVE THESE INSTRUCTIONS. Refer to them often and use them to instruct others.



PROTECT EYES

Wear safety glasses or suitable eye protection when working on or around machinery.





PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protective devices such as ear muffs or earplugs to protect against objectionable or uncomfortable loud noises.



HYDRAULIC HOSE FAILURE

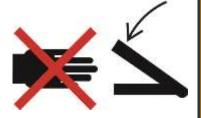
Exercise <u>CAUTION</u> around hydraulic hoses in case of a hose or fitting failure.





BEWARE OF PINCH POINTS AND CRUSH HAZARD

<u>NEVER</u> place any part of the body under the table or into the scissors mechanism while the table is in operation. Table must be properly secured on the safety stands and power disconnected before servicing any part of the table.



HIGH VOLTAGE

USE CAUTION IN HIGH VOLTAGE AREAS. DO NOT assume the power to be off. FOLLOW PROPER LOCKOUT PROCEDURES.



EMERGENCY STOP BUTTON

In the event of incorrect operation or dangerous conditions, the machine can be stopped immediately by pressing the **<u>E-STOP</u>** button. Twist the emergency stop button clockwise (cw) to reset. Note: Resetting the E-Stop will not start the machine.



SAFETY PRECAUTIONS



Metal working can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result.

Safety equipment such as guards, hold-downs, safety glasses, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. <u>Always use common sense</u> and exercise <u>caution</u> in the workshop. If a procedure feels dangerous, don't try it.

REMEMBER: Your personal safety is your responsibility.

WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

Dear Valued Customer:

- All Baileigh machines should be used only for their intended use.
- Baileigh does not recommend or endorse making any modifications or alterations to a Baileigh machine. Modifications or alterations to a machine may pose a substantial risk of injury to the operator or others and may do substantial damage to the machine.
- Any modifications or alterations to a Baileigh machine will invalidate the machine's warranty.

PLEASE ENJOY YOUR BAILEIGH MACHINE! PLEASE ENJOY IT SAFELY!

- 1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE MACHINE. Learn the machine's application and limitations as well as the specific hazards.
- 2. Only trained and qualified personnel can operate this machine.



- 3. Make sure guards are in place and in proper working order before operating machinery.
- 4. **Remove any adjusting tools.** Before operating the machine, make sure any adjusting tools have been removed.
- 5. Keep work area clean. Cluttered areas invite injuries.
- 6. **Do not force tool.** Your machine will do a better and safer job if used as intended. **DO NOT** use inappropriate attachments in an attempt to exceed the machines rated capacity.
- 7. **Use eye and ear protection**. Always wear ISO approved impact safety goggles. Wear a full-face shield if you are producing metal filings.
- 8. **Dress appropriate. DO NOT** wear loose fitting clothing or jewelry as they can be caught in moving machine parts. Protective clothing and steel toe shoes are recommended when using machinery. Wear a restrictive hair covering to contain long hair.
- 9. **Do not overreach**. Maintain proper footing and balance at all times. **DO NOT** reach over or across a running machine.
- 10. **Stay alert**. Watch what you are doing and use common sense. **DO NOT** operate any tool or machine when you are tired.
- 11. Check for damaged parts. Before using any tool or machine, carefully check any part that appears damaged. Check for alignment and binding of moving parts that may affect proper machine operation.
- 12. **Observe work area conditions**. **DO NOT** use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted. **DO NOT** use electrically powered tools in the presence of flammable gases or liquids.
- 13. **Keep children away**. Children must never be allowed in the work area. **DO NOT** let them handle machines, tools, or extension cords.
- 14. **Store idle equipment**. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep them out of reach of children.
- 15. **DO NOT operate machine if under the influence of alcohol or drugs**. Read warning labels on prescriptions. If there is any doubt, **DO NOT** operate the machine.
- 16. Turn off power before checking, cleaning, or replacing any parts.
- 17. Be sure **all** equipment is properly installed and grounded according to national, state, and local codes.
- 18. Inspect power and control cables periodically. Replace if damaged or bare wires are exposed. <u>Bare wiring can kill!</u> DO NOT touch live electrical components or parts.
- 19. DO NOT bypass or defeat any safety interlock systems.
- 20. Keep visitors a safe distance from the work area.



WARNING: THIS IS NOT A PERSONNEL LIFT!

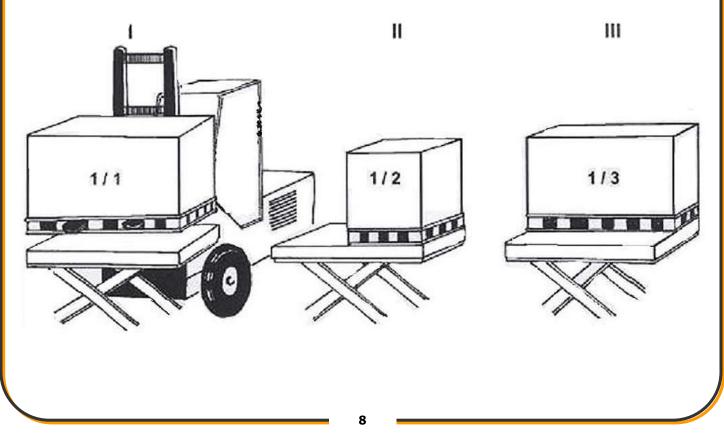
AT NO TIME SHOULD THIS TABLE BE USED TO LIFT PEOPLE OR PERSONS! This is to be used to lift materials only!

21. **Do not overload the lift table.** By overloading the machine you may cause injury from broken parts. Load should be distributed on the table according to the load distribution diagram.

IMPORTANT: 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.





TECHNICAL SPECIFICATIONS

Lift Capacity	4400lbs (2000kgs)
Table Size	39.25 x 63" (1000 x 1600mm)
Table Height Minimum	9" (230mm)
Table Height Maximum	39.25" (1000mm)
Base Size	30.9" x 48" (785 x 1220mm)
Lift Time	20 ~ 25 second
Power Supply	220V 1ph, 60hz
Motor	3hp (2.2kw), 1ph, 60hz, 12.5A
Duty Cycle	10-12 Full Capacity Full Stroke Lifts per Hour
Hydraulic Tank Capacity	3.5qt (3.3L)
Shipping Dimensions (L x W x H)	41.5" x 65" x 15" (1050 x 1650 x 380mm)
Shipping Weight	606.5lbs. (275kg)
Net Weight	591lbs. (268kg)

TECHNICAL SUPPORT

Our technical support department can be reached at 920.684.4990, and asking for the support desk for purchased machines. Tech Support handles questions on machine setup, schematics, warranty issues, and individual parts needs: (other than die sets and blades).

For specific application needs or future machine purchases contact the Sales Department at: <u>sales@baileigh.com</u>, Phone: 920.684.4990, or Fax: 920.684.3944.

Note: The photos and illustrations used in this manual are representative only and may not depict the actual color, labeling or accessories and may be intended to illustrate technique only.

Note: The specifications and dimensions presented here are subject to change without prior notice due to improvements of our products.



UNPACKING AND CHECKING CONTENTS

Your Baileigh machine is shipped complete. Separate all parts from the packing material and check each item carefully. Make certain all items are accounted for before discarding any packing material.

WARNING: SUFFOCATION HAZARD! Immediately discard any plastic bags and packing materials to eliminate choking and suffocation hazards to children and animals.

If any parts are missing, DO NOT place the machine into service until the missing parts are obtained and installed correctly.

<u>Cleaning</u>

WARNING: DO NOT USE gasoline or other petroleum products to clean the machine. They have low flash points and can explode or cause fire.

CAUTION: When using cleaning solvents work in a well-ventilated area. Many cleaning solvents are toxic if inhaled.

Your machine may be shipped with a rustproof waxy coating and/or grease on the exposed unpainted metal surfaces. Fully and completely remove this protective coating using a degreaser or solvent cleaner. Moving items will need to be moved along their travel path to allow for cleaning the entire surface. For a more thorough cleaning, some parts will occasionally have to be removed. **DO NOT USE** acetone or brake cleaner as they may damage painted surfaces.

Follow manufacturer's label instructions when using any type of cleaning product. After cleaning, wipe unpainted metal surfaces with a light coating of quality oil or grease for protection.

Important: This waxy coating is **NOT** a lubricant and will cause the machine to stick and lose performance as the coating continues to dry.









TRANSPORTING AND LIFTING

IMPORTANT: Lifting and carrying operations should be carried out by skilled workers, such as a truck operator, crane operator, etc. If a crane is used to lift the machine, attach the lifting chain carefully, making sure the machine is well balanced.

Follow these guidelines when lifting with truck or trolley:

- The lift truck must be able to lift at least 1.5 2 times the machines gross weight.
- Make sure the machine is balanced. While transporting, avoid rough or jerky motion, and maintain a safe clearance zone around the transport area.
- Use a fork lift with sufficient lifting capacity and forks that are long enough to reach the complete width of the machine.



- Remove the securing bolts that attach the machine to the pallet.
- Approaching the machine from the side, lift the machine on the frame taking care that there are no cables or pipes in the area of the forks.
- Move the machine to the required position and lower gently to the floor.
- Level the machine so that all the supporting feet are taking the weight of the machine and no rocking is taking place.

Follow these guidelines when lifting crane or hoist:

- Always lift and carry the machine with the lifting holes provided at the top of the machine.
- Use lift equipment such as straps, chains, capable of lifting 1.5 to 2 times the weight of the machine.
- Take proper precautions for handling and lifting.
- Check if the load is properly balanced by lifting it an inch or two.
- Lift the machine, avoiding sudden accelerations or quick changes of direction.
- Locate the machine where it is to be installed, and lower slowly until it touches the floor.



INSTALLATION

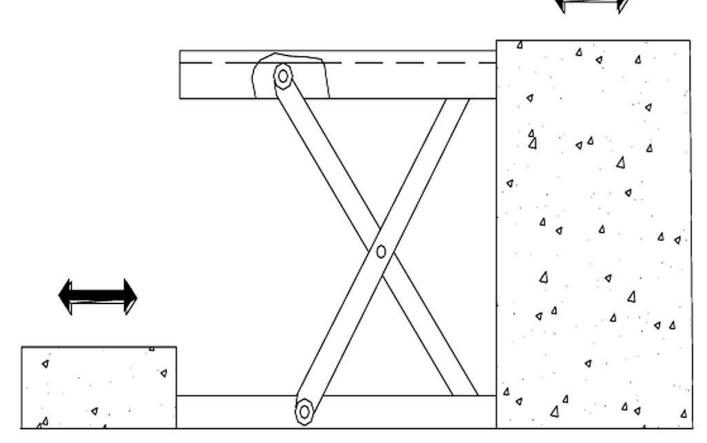
IMPORTANT:

Consider the following when looking for a suitable location to place the machine:

- Overall weight of the machine.
- Weight of material being processed.
- Sizes of material to be processed through the machine.
- Space needed for auxiliary stands, work tables, or other machinery.
- Clearance from walls and other obstacles.
- Maintain an adequate working area around the machine for safety.
- Have the work area well illuminated with proper lighting.
- Keep the floor free of oil and make sure it is not slippery.
- Remove scrap and waste materials regularly, and make sure the work area is free from obstructing objects.
- If long lengths of material are to be fed into the machine, make sure that they will not extend into any aisles.
- LEVELING: The machine should be sited on a level, concrete floor. Provisions for securing it should be in position prior to placing the machine. The accuracy of any machine depends on the precise placement of it to the mounting surface.
- **FLOOR:** This tool distributes a large amount of weight over a small area. Make certain that the floor is capable of supporting the weight of the machine, work stock, and the operator. The floor should also be a level surface. If the unit wobbles or rocks once in place, be sure to eliminate by using shims.
- WORKING CLEARANCES: Take into consideration the size of the material to be processed. Make sure that you allow enough space for you to operate the machine freely.
- **POWER SUPPLY PLACEMENT:** The power supply should be located close enough to the machine so that the power cord is not in an area where it would cause a tripping hazard. Be sure to observe all electrical codes if installing new circuits and/or outlets.



- 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.
- 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.

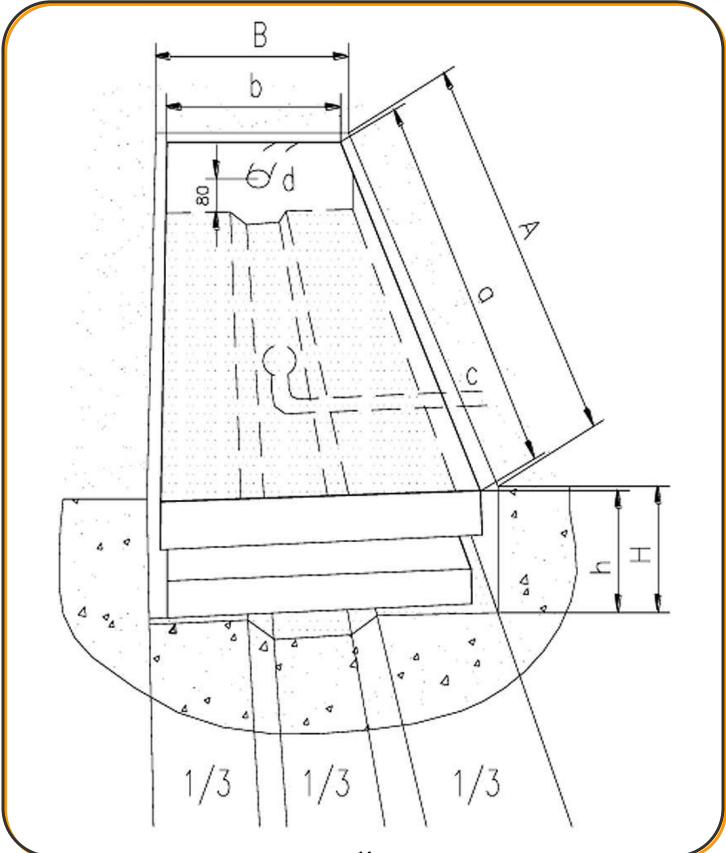


Loading/unloading at the fixed arm end

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 $\phi 60 \text{mm}$
- h. Lowest height

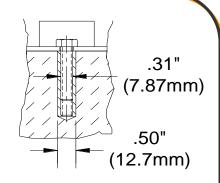






Anchoring the Machine

- Once positioned, anchor the machine to the floor, as shown in the diagram. Use bolts and expansion plugs or sunken tie rods that connect through and are sized for the holes in the base of the stand.
- This machine requires a solid floor such as concrete at a minimum of 4" (102mm) thick. 6" (153mm) minimum is preferred.



Tank Filling

The hydraulic oil is the primary medium for transmitting pressure and also must lubricate the running parts of the pump.

Check the oil level with the table raised and resting on the safety prop bars.

After installation of the machine and before machine startup, bring the oil level up to 90% of capacity. Verify that any cylinder rams are is in the retracted position to prevent overfilling of the tank. Recheck the oil level after the first few hours of operation and again after the first full week of operation.

<u>A shortage of hydraulic oil can cause hydraulic system breakdown and damage to major</u> <u>mechanical parts due to overheating</u>.



ELECTRICAL

CAUTION: HAVE ELECTRICAL UTILITIES CONNECTED TO MACHINE BY A CERTIFIED ELECTRICIAN!

Check if the available power supply is the same as listed on the machine nameplate.

WARNING: Make sure the grounding wire (green) is properly connected to avoid electric shock. DO NOT switch the position of the green grounding wire if any electrical plug wires are switched during hookup.

Power Specifications

Your tool is wired for 220 volts, 60Hz alternating current. Before connecting the tool to the power source, make sure the machine is cut off from power source.

Before switching on the power, you must check the voltage and frequency of the power to see if they meet with the requirement, the allowed range for the voltage is $\pm 5\%$, and for the frequency is $\pm 1\%$.

Considerations

- Observe local electrical codes when connecting the machine.
- The circuit should be protected with a time delay fuse or circuit breaker with a amperage rating slightly higher than the full load current of machine.
- A separate electrical circuit should be used for your tools. Before connecting the motor to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as indicated on the tool.
- All line connections should make good contact. Running on low voltage will damage the motor.
- In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING: In all cases, make certain the receptacle in question is properly grounded. If you are not sure, have a qualified electrician check the receptacle.



- Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
- Repair or replace damaged or worn cord immediately.

Extension Cord Safety

Extension cord should be in good condition and meet the minimum wire gauge requirements listed below:

	LENGTH			
AMP RATING	25ft	50ft	100ft	
1-12	16	16	14	
13-16	14	12	12	
17-20	12	12	10	
21-30	10	10	No	
	WIRE GAUGE			

An undersized cord decreases line voltage, causing loss of power and overheating. All cords should use a ground wire and plug pin. Replace any damaged cords immediately.

Power cord connection:

- 1. Unwrap the power cord and route the cord away from the machine toward the power supply.
 - a. Route the power cord so that it will NOT become entangled in the machine in any way.
 - b. Route the cord to the power supply in a way that does NOT create a trip hazard.
- 2. Connect the power cord to the power supply and check that the power cord has not been damaged during installation.
- 3. When the machine is clear of any obstruction. Release the emergency stop button and test the operation of the table.



OPERATION

CAUTION: Always wear proper eye protection with side shields, safety footwear, and other PPE equipment as needed for the work environment.

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

Watch for and maintain proper clearance around the table and the load. This shall include overhead clearance for the load being lifted.

<u>Loading</u>

The maximum capacity of the lift table is 4400lbs (2000kg). Load should be distributed on the lift table evenly and balanced.

Emergency Stop

In the event of incorrect operation or dangerous conditions, the table can be stopped immediately by pressing the <u>**E-STOP**</u> button (A). Twist the emergency stop button clockwise (cw) to reset.

Lifting the Table

- Release the emergency stop switch (A).
- Push the UP button (B) and the hydraulic motor and pump will start and the table will lift the load.
- Release the UP button when the table is at the desired height or when it reaches the up limit.

Lowering the Table

WARNING: Prevent crushing injuries. DO NOT put foot or hand under table or in scissors mechanism.

- Push the DOWN button (C) and the table will lower using gravity.
- Release the DOWN button when the table is at the desired height or when it reaches the full down position.





Note: The table is equipped with an aluminum guard to avoid accidental crushing hazard. If the aluminum guard strikes an object while the table is lowering, the table will stop. Check for the obstruction, If the area is safe, raise the table enough to clear the object which contacted the aluminum guard, then resume lowering the table. Once activated, the table must go up slightly before it will resume lowering.

LUBRICATION AND MAINTENANCE

WARNING: Make sure the electrical disconnect is <u>OFF</u> before working on the machine.

Maintenance should be performed on a regular basis by qualified personnel. Always follow proper safety precautions when working on or around any machinery. ALAWYS place the table on the safety lock bars (A) before performing any service in or under the scissors mechanism.

<u>Daily</u>

- Check daily for any unsafe conditions and fix immediately.
- Check that all nuts and bolts are properly tightened.
- Test the functions of the lift table.
- Test the down safety limits switches on the safety guard.
- Do routine check of the hydraulic system by listening for loud or unusual noise.

Weekly

- On a weekly basis clean the machine and the area around it.
- Lubricate threaded components and sliding devices.
- Apply rust inhibitive lubricant to all non-painted surfaces.





Service Schedule

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	After every 2000
Content	hours or 3 months	hours or annually
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	After first 10	working hours
Replace hydraulic oil		\$
Check oil leaking		\$

Hydraulic Oil

The hydraulic oil is the primary medium for transmitting pressure and also must lubricate the running parts of the pump.

- 1. Use hydraulic oil ISO HL32 (such as Rando oil R&O32, D.T.E. oil light, Turbo32) or an equivalent with similar specifications.
- 2. Keep hydraulic reservoir filled to 90% of capacity.
- 3. DO NOT rely totally on the oil gauge as they can sometimes indicate an incorrect level reading. Do a visual inspection with the oil fill cap removed as well.
- 4. A shortage of hydraulic oil will cause hydraulic system breakdown to major mechanical components due to overheating.
- 5. Change the hydraulic oil every 12 months along with the oil filter.
- 6. Check the hydraulic oil level when the lift is setting on the safety locks.

<u>Oil Disposal</u>

Used oil products must be disposed of in a proper manner following your local regulations.

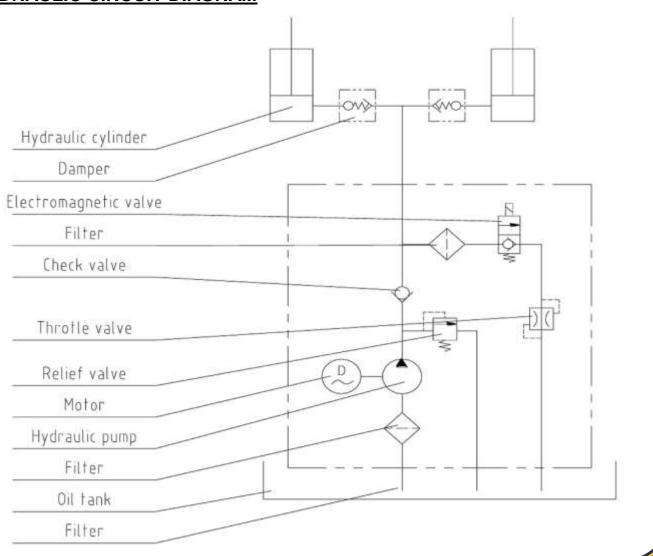


Greasing Points

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

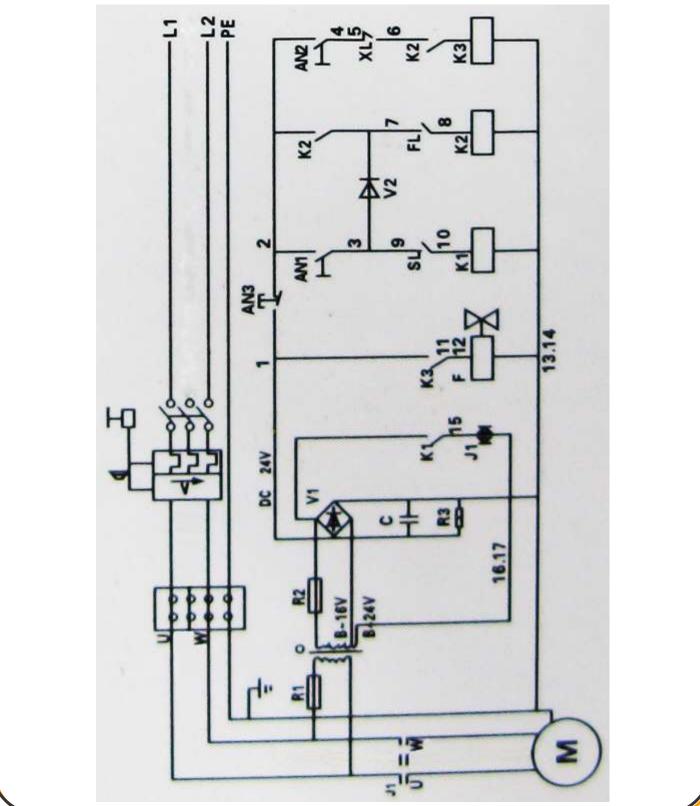
When greasing the bearings the Lift Table must not be loaded.

HYDRAULIC CIRCUIT DIAGRAM











Electric Circuit Component Listing

Туре	Name	Description	Qty.	
TS	Transformer	DB-6636224, 220V/0-18 ~ 24V 50VA	1	
F1	Fuse	5A	2	
J1	AC Contactor	CJX2-0910	1	
F	Electromagnetic Valve	DC24V	1	
AN3	Emergency Stop Button	XB2-ES542C+ZB-BY9101	1	
AN2	Down Button	XB2-BA21C	1	
AN1	Up Button	XB2-BA21C	1	
SL	Up Limit Switch	D4V-8108Z	1	
FL	Down Safety Switch		2	
М	Pump Motor		1	
СВ	Control Board	Electronic circuit containing the relays, diodes, resistors, and rectifier		
XL	Down Limit Switch	Optional, Customer supplied / Installed		
QF	Circuit Breaker	C45N3P 25A (Optional, Customer supplied / Installed)		

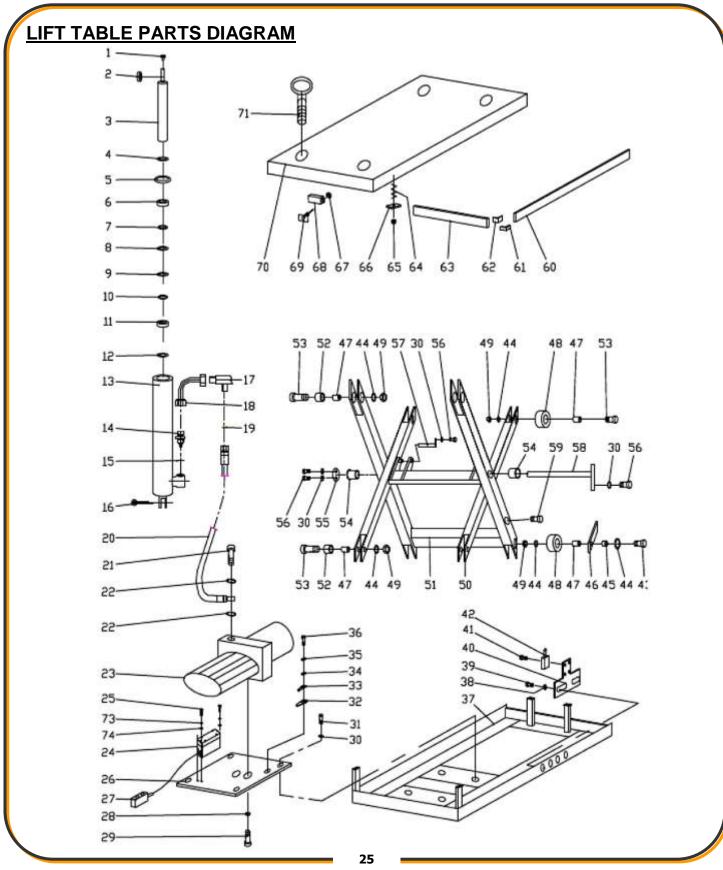


TROUBLE SHOOTING

WARNING: Make sure the electrical disconnect is <u>OFF</u> before working on the machine.

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







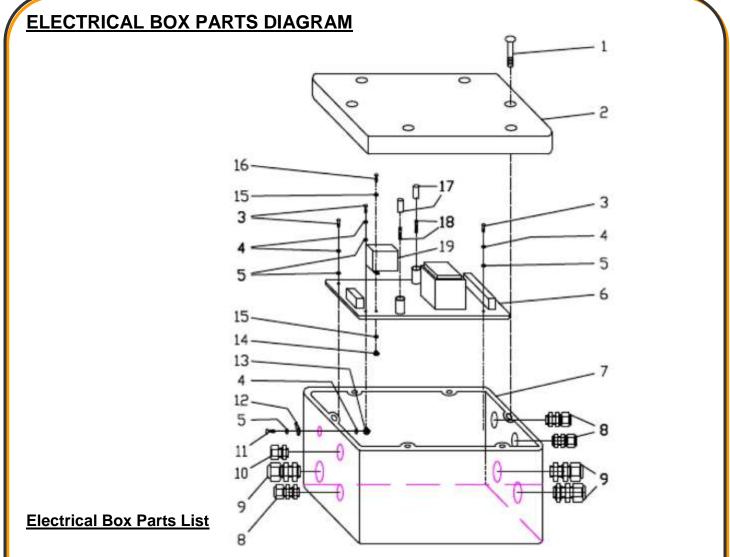
Lift Table Parts List

Item	Description	Qty.	Item	Description	Qty.
1	Grease Cup M6	2	38	Washer 6	2
2	Bearing GE30ZS	2	39	Bolt M6×10	2
3	Piston Rod	2	40	Frame Of Travel Switch	1
4	Seal Cover 52×40×7	2	41	Bolt M5×10	4
5	Retaining Ring Φ75	2	42	Travel Switch (ME-9101)	1
6	Cylinder Cover	2	43	Bolt	2
7	O-Ring 40×2.65	2	44	Washer 14	10
8	Snap Ring Φ80	2	45	Bushing	2
9	O-Ring 75×2.65	2	46	Prop	2
10	Snap Ring Φ40	2	47	Bushing	8
11	Piston	2	48	Roller	4
12	Seal Ring 80×60×22.3	2	49	Nut M14	8
13	Cylinder	2	50	Internal Scissors	1
14	Hose Break Valve	2	51	External Scissors	1
15	Seal Ring 16	2	52	Bushing	8
16	Split Pin 4×35	2	53	Bolt	6
17	T Joint	1	54	Bushing	2
18	Steel Tube	2	55	Washer	1
19	O-Ring 6×1.8	1	56	Hex Headed Screw Bolt M8×20	5
20	High Pressure Hose	1	57	Pin	2
21	Joint	1	58	Pin	1
22	Seal Ring 14	2	59	Bolt	2
23	Hydraulic Power Pack	1	60	Safety Frame	2
24	Electric Box	1	61	Fixed-Board	4
25	Bolt M5×10	4	62	Connected-Board	4
26	Pump Pack Base	1	63	Safety Frame	2
27	Control Switch	1	64	Spring	4
28	Spring Washer 10	2	65	Nut M8	4
29	Hex Bolt M10×20	2	66	Buffer-Board	4
30	Spring Washer 8	9	67	Nut M4	4
31	Bolt M8×10	4	68	Safety Switch	2
32	Indicator Φ6	1	69	Fixed-Board	4



Item	Description	Qty.	Item	Description	Qty.
33	Connector Lug Φ6-4	1	70	Table	1
34	Washer 6	1	71	Lifting Bolt M10	4
35	Spring Washer 6	1	72	Lifting Bolt M16	1
36	Bolt M6×12	1	73	Spring Washer 5	4
37	Chassis	1	74	Washer 5	4





Item	Description	Qty.	Item	Description	Qty.
1	Screw M5×20	6	11	Screw M5x16	1
2	Cover	1	12	Ground Terminal	1
3	Screw M5x10	3	13	Nut M5	1
4	Spring Washer 5	4	14	Nut M4	2
5	Washer 5	4	15	Washer 4	4
6	Integrated Circuit Board	1	16	Screw M4x10	2
7	Box	1	17	Plug For Fuse	2
8	Plastic Joint	3	18	Fuse 5A	2
9	Plastic Joint	3	19	Contactor	1
10	Plastic Cover	1			



NOTES



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