

# **OPERATION MANUAL**

**For**

**PORTABLE HEAVY DUTY  
FOOT OPERATED  
HYDRAULIC LIFT TABLES**



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# 1 SCOPE

This manual establishes the safety, operation, and maintenance procedures, as well as performance, and physical characteristics for a hydraulic lift table.

# 2 SAFETY

Safety is always a primary concern when heavy equipment and personnel meet in the workplace. Education is the first step in avoiding costly injury and down time. The use of this equipment requires that personnel be properly educated / trained *before* engaging in its use.

## 2.1 Initial Start Up

All operators of these Lift Tables must read this OPERATING MANUAL in its entirety BEFORE operating this table to become familiar with the equipment and its safe operation. This is a heavy table, designed and tested to handle dedicated and pre-determined heavy loads. Before applying this table in services outside their specified application, the manufacturer must be contacted to review and approve any new applications.

Upon receipt and unpacking, inspect the equipment as outlined in the Basic Operation Section of this manual. Also, visually inspect this equipment for obvious signs of damage each time before placing it into lifting service.

## 2.2 Operation – Keep Hands Clear

- Table must not be operated by anyone under the influence of alcohol, medications or other impairing substances.
- Avoid distractions when lifting or lowering, pushing or pulling loads.
- Use the table to lift the dedicated loads for which this table was designed for only.
- Prevent table from shifting during loading and unloading.
- KEEP HANDS CLEAR to avoid injury. Never place hands between the loads and the table.

## 2.3 Loading and Weight Distribution

- Truck has been designed to provide safe transfer of equipment loads. Care must be taken by the operators to assure that during operation:
  - Obstructions are avoided. Obstructions are objects that may trip, slip, pinch, pin, trap, or cause other hazardous conditions to operator or area personnel. Do not allow personnel to stand between truck and obstruction.
  - Truck does not shift position during on-loading and off-loading of equipment.
  - Table Height position is maintained during on-loading and off-loading of equipment.
  - **Before Pulling Load ON Lexco Lift Table**
    - Bring Lift Table into loading position for straight and even loading.

- Adjust the Lift Table height so that the top of the Table is at the same height as the oncoming load.
- **Before Pushing Load OFF Lexco Lift Table.**
  - Bring Lift Table into unloading position for straight and even unloading.
  - Adjust the Lift Table height so that the Top of the Table is at the same height as the shelf or press surface.
- **Before Transporting Load to another location:**
  - Load must be centrally loaded onto table.
  - Load must be mechanically retained in a cradle, or other method to avoid slipping off.

## **2.4 Servicing and Maintenance**

At any time when performing service or periodic maintenance, before placing arms and hands into the operating members:

- Support the upper Table surface with a separate jack or other mechanical obstruction to prevent accidental lowering due to electrical, hydraulic or mechanical release. DO NOT place any clamping devices on the Cylinder rod since any damage to this polished surface will cause seal failure and hydraulic oil leakage.
- Conduct service on the table only when the load has been removed.

# **3 REQUIREMENTS**

## **3.1 Item Definition**

### **3.1.1 Overview**

The truck is designed to support its maximum weight evenly distributed over the top of the table.

### **3.1.2 Unit Description**

Each truck is equipped with:

Table:

- Heavy duty steel TOP and BASE
- 2 swivel and 2 fixed or 4 swivel forged steel or poly coated steel CASTERS.
- 1 FOOT OPERATED HYDRAULIC PUMP with 1 hydraulic cylinder and 4 guide tubes



## 3.2 Characteristics

The following sections describe the characteristics of the truck assembly.

### 3.2.1 Performance

The truck is capable of transporting the rated load on a flat surface normally found in a manufacturing facility. The intended surface is either non-slippery concrete, asphalt or other flat floor. The table is designed to perform vertical lift starting from its minimum low height to its maximum raised height at approximately 3/16 to 3/8 inches per foot pedal stroke. The table raises and lowers under hydraulic power.

#### 3.2.1.1 Hydraulic System

The self-contained hydraulic system is located on the base of the truck. It is capable of providing up to 1,500 pounds per square inch pressure. The pump's pressure relief valve is factory set and is used in the hydraulic system to provide protection to pressure limited components. **This pump's pressure relieve valve setting must not be adjusted by the customer without first contacting the manufacturer's customer service department.**

### 3.2.2 Maintainability

Periodic lubrication is recommended of the Guide Tubes to prevent binding and promote smooth lifting and lowering table operation. Periodically lubricate casters where grease fittings are located. Also, oil stabilizer bar pinned joints.

### 3.2.3 Environmental Conditions

The following section describes the environmental operating and storage conditions of the truck.

#### 3.2.3.1 *Temperature*

The truck or portions thereof shall not experience damage or operational degradation when exposed to the following operating, non-operating, and power-on temperature ranges. If unit is powered-on and operated between 10° F (-12.2°C) and 100° F (37.8°C), no self-inflicted damage shall occur to the truck. A storage temperature between 0° F (-17.8°C) and 120° F (48.9°C) shall not damage the truck.

#### 3.2.3.2 *Humidity*

The truck shall maintain the specified performance when exposed to a relative humidity of 80 percent, non-condensing, for both a continuous and intermittent periods. The truck shall not be exposed to rain and outdoor weather conditions. Drivers and controls are not sealed against wet or condensing conditions.

#### 3.2.3.3 *Corrosive Environment*

The truck is not designed to operate in a corrosive environment due to the exposed electronics. Exposure to a corrosive environment shall void the warranty. Protect truck against excessive moisture and weather-induced corrosion.

### **3.3 *Design and Construction***

#### **3.3.1 *Material, Processes, and Parts***

Commercial off-the-shelf (COTS) parts and materials that meet or exceed this specification is used whenever possible.

#### **3.3.2 *Nameplates and Product Marking***

Identification labels is permanently affixed to the external surface of the unit as specified by LEXCO. Identification plates, connector designator, and unit marking are in accordance with LEXCO standard procedure.

#### **3.3.3 *Workmanship***

The truck has been manufactured and finished in accordance with LEXCO standard procedures.

#### **3.3.4 *Finishes***

Emerald Green enamel paint per LEXCO procedures.

### **3.4 *Documentation***

The following items of documentation are included for the technical support and operation of the truck:

- Operation Manual (1 copy)

## **4 *Basic operation***

### **4.1 *Receiving / unpacking***

**WARNING !!!**

**WARNING !!!**

**WARNING !!!**

Use extreme caution in **lifting the truck from the under the base only!**

The tables must be delivered in the Upright position. If not, extensive and detailed inspection is warranted.

Cut the banding which has secured the table for transport and discard.

## **4.2 General inspection**

Perform a general appearance inspection looking for any significant transport damage. Any damage noted must be reported with the freight carrier immediately.

### **4.2.1 Mechanical**

Inspect the table top for structural anomalies or die rails being dislodged from their channel.

Inspect the base for structural damage in general around the sides and at the coupling area of the drive motor areas. Look carefully for evidence of fork truck damages by the carrier. Inspect the table base, top, guide tubes, floor locks, casters, and pump power unit for damages.

### **4.2.2 Hydraulic**

Inspect for hydraulic leaks and / or broken hoses. Inspect for the proper amount of hydraulic oil in the reservoir. The unit was shipped with the proper amount of oil and none should be required. Inspect the motor, the cylinder(s) and the pump for damages. Verify the manifold and valve systems are not damaged or leaking. Any damages, report immediately to the carrier.

## **5 Hydraulics**

### **5.1 Hydraulic Oil**

- The following specifications / designations describe the same oil:
  - Citgo A/W Hydraulic Oil 46, Premium Quality Anti-Wear Hydraulic Oil
  - Sperry Vickers M-2950-S and I-286-S
  - Denison HF-O
  - Cincinatti Lilacron P-70

## **6 Hydraulic Power Unit**

### **6.1 Adding Hydraulic Oil**

To add oil, simply remove the Filler Port / Plug located on the top of the Reservoir Tank and add oil sparingly. Avoid overfilling.

## **7 Maintenance**

### **7.1 Monthly maintenance**

#### **7.1.1 Wheels and casters**

Wheels and casters should be greased once a month.

#### **7.1.2 Guide Tubes**

- Grease all Guide Extension Tubes with light grease once a month or as needed.  
Specification: High Temperature, Multi-Purpose Synthetic Grease  
2 & 2 EP Consistency Grade  
LB Chassis Lub Performance  
Such as: AMSOIL, Inc. Lubs of Superior, WI USA

#### **7.1.3 Stabilizer Bars**

- If your table is equipped with stabilizer bars, oil all stabilizer bar pinned joints with any medium weight oil.

#### **7.1.4 Hydraulic Oil Fluid Level**

Check oil level in pump reservoir and top off with oil per specification in Section 6.