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**CDL-2000 BELOW-THE-HOOK DRUM LIFTER  
USE AND MAINTENANCE MANUAL**



**Receiving instructions:**

After delivery, IMMEDIATELY remove the packaging from the product in a manner that preserves the packaging and maintains the orientation of the product in the packaging. Then, inspect the product closely to determine whether it sustained damage during transport. **If damage is discovered, immediately record a complete description of the damage on the bill of lading.** If the product is undamaged, discard the packaging.

**NOTES:**

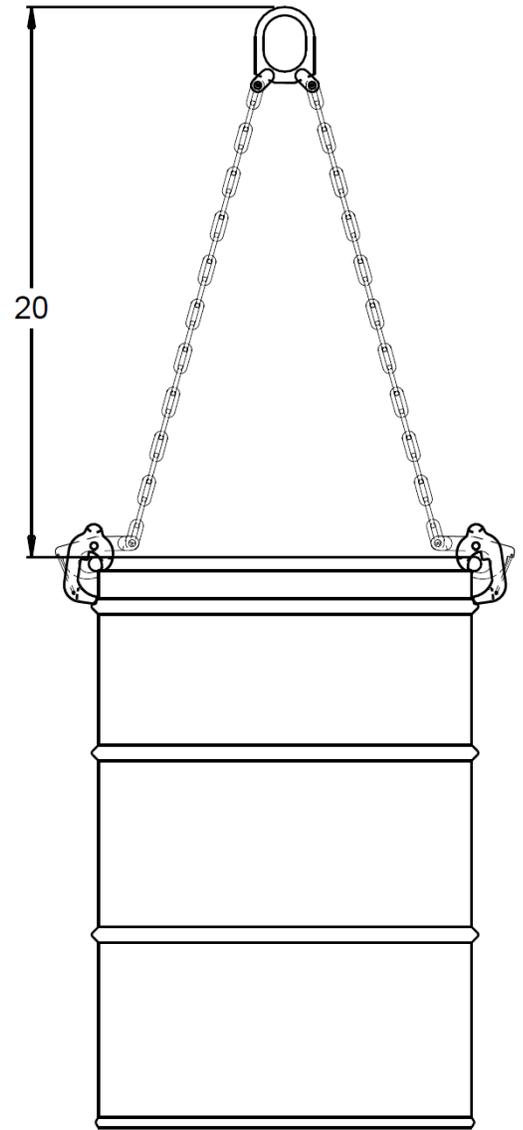
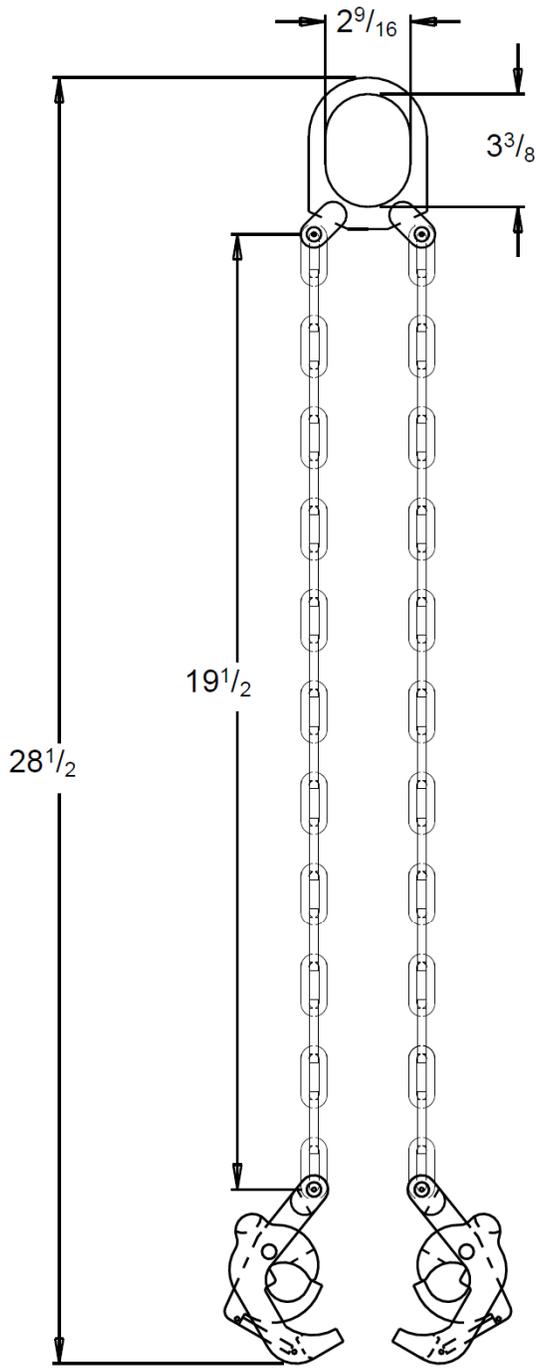
- 1) Compliance with laws, regulations, codes, and non-voluntary standards enforced in the location where the product is used is exclusively the responsibility of the owner/end-user
  - 2) VESTIL is **not liable** for any injury or property damage that occurs as a consequence of failing to apply either:
    - a) Instructions in this manual; or b) information provided on labels affixed to the product.
- Vestil is also not responsible for any consequential damages sustained as a result of failing to exercise sound judgment while assembling, installing, using or maintaining this product.

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**Product specifications:**

Dimensions and other product specifications appear in the table below.



**Standard Features:**

- Overall length:  $28\frac{1}{2}$  inches
- Chain: Grade 80
- Capacity: 2,000 lb. (909.1kg)

## Signal Words:

This manual uses SIGNAL WORDS to indicate the likelihood of personal injuries, as well as the probable seriousness of those injuries, if the product is misused in the ways described. Other signal words call attention to uses of the product likely cause property damage. The signal words used appear below along with the meaning of each word:



**DANGER** Identifies a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.



**WARNING** Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.



**CAUTION** Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE injury.



**NOTICE** Identifies practices likely to result in product/property damage, such as operation that might damage the product.

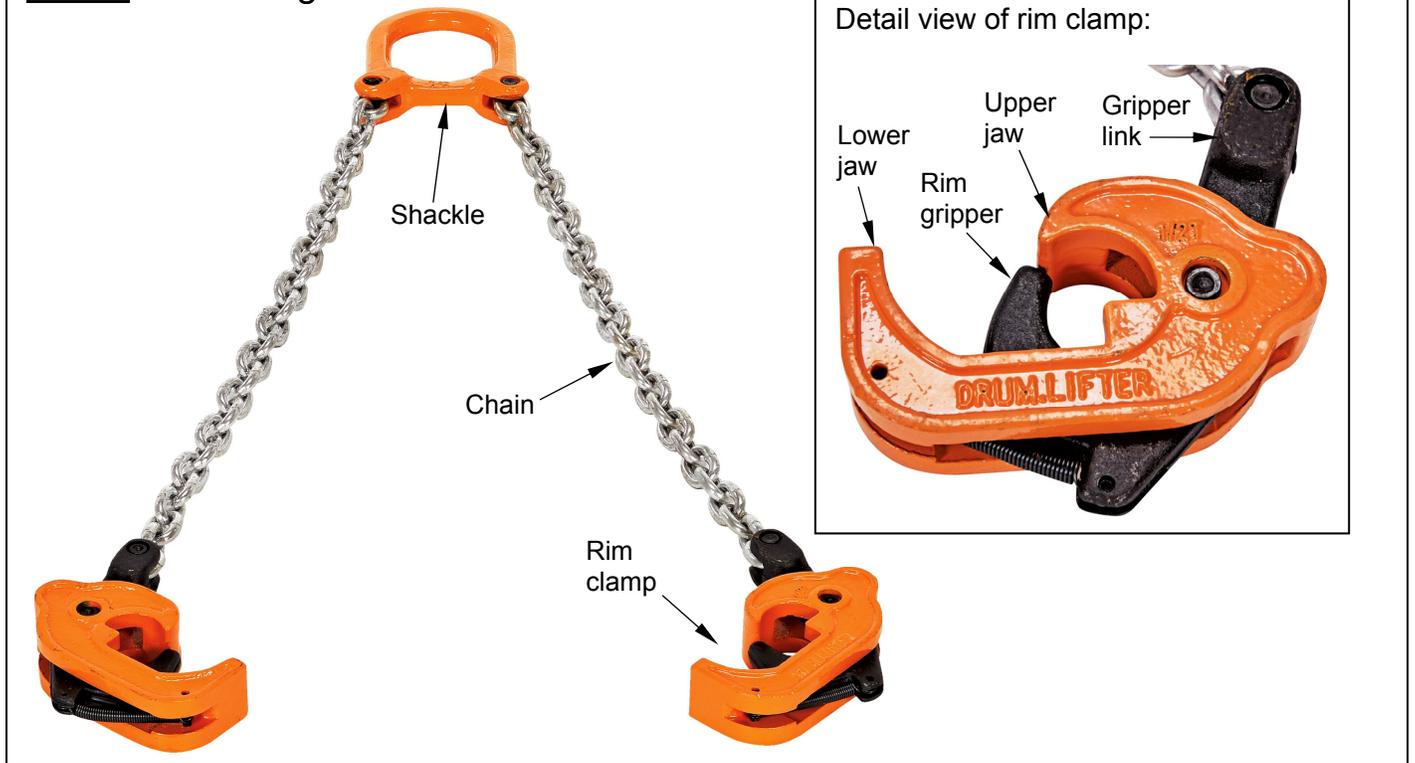
## Safety Use Recommendations:

We strive to identify all hazards associated with the use of our products. However, material handling is dangerous and no manual can address every risk. The most effective means for avoiding accidents and injuries is for the end-user to exercise common sense and sound judgment whenever using this product.



**WARNING** Improper or careless use might result in serious personal injuries.

- Review the safety messages included in the manuals for your crane, trolley, hoist, and any other device used in conjunction with this drum lifter.
- **ALWAYS** inspect the drum lifter before each use according to the inspection procedures described in the most recent revision of ASME B30.20. B30.20 also recommends “frequent” and “periodic” inspections.
- Properly maintain the device according to the maintenance instructions on pp. 5-6. The instructions *supplement* the maintenance recommendations in ASME B30.20.
- **ALWAYS** attach the drum lifter to hoist having a safety hook or to a connection that includes safety mechanisms to prevent accidental/unintended detachment. **DO NOT** connect this device to a malfunctioning/damaged safety hook.
- Remove all dirt and debris from the drum lid, before attaching the rim clamps to the rim of a drum.
- **DO NOT** remove, alter, or obscure any label. Verify the placement and legibility of all labels as shown in the “Labeling Diagram” on p. 6. If a label is damaged or unreadable, replace it. **DO NOT** use the lifter until the replacement label is installed.
- **ONLY** attach the rim clamps to the top rim of a drum.
- **DO NOT** attempt to lift a drum if the rim is damaged or rusted. The rim grippers might not securely attach to the rim if it is damaged.
- **DO NOT** lift more than 1 drum at a time.
- **DO NOT** lift a drum lying on its side.
- **DO NOT** sit on or apply any weight or pressure to a suspended drum.
- **DO NOT attempt to lift a drum that weighs more than the capacity of the lifter.** **ALWAYS** make sure that the net weight of the drum and its contents does not exceed the rated load of the lifter.
- **DO NOT** lift a load higher than necessary. (See “Use Instructions” on pp. 4-5).
- Keep clear of suspended loads and be particularly careful to keep your feet out from underneath the load.
- **DO NOT** walk beneath a raised drum.
- **DO NOT** use the lifter to lift a drum over people or to lift any apparatus that supports people, such as a work platform. The lifter is designed **ONLY** to lift 30 and 55 gallon drums made of plastic, fiber, or steel.
- **DO NOT** leave a suspended drum unattended. Always set it down and confirm that the drum is stable. Then, disengage the load. Disconnect the lifter from the hoist hook or fork truck tine **BEFORE** leaving the work area.

**FIG. 1:** Parts diagram

**Use Instructions:** This lifting device is designed to handle 30 or 55 gallon plastic, fiber, or steel drums.

**WARNING** DO NOT attempt to lift a drum lying on its side. The drum must be in an upright position before the lifter can properly engage the rim. Lifting drums from the side also causes significant load swing when the drum leaves the ground. Load swing can disrupt the connection between the rim clamps and the drum rim.

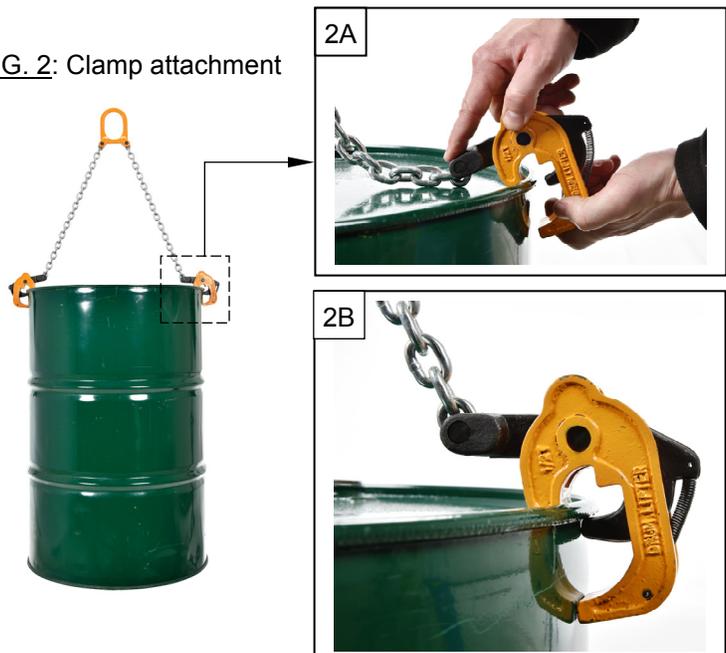
**NOTICE** Operating instructions in this manual supplement the operation recommendations of the ASME presented in standard ASME B30.20.

Only trained, designated persons should use this device. "Designated person" means someone selected by his or her employer, or by a representative of the employer, as competent to use the device. Trainees under the direct supervision of a designated person may use the lifter.

**Step 1:** Inspect the lifter according to the inspection instructions on p.5. Proceed to the next step **ONLY IF** the lifter is in normal operating condition. Then, connect the shackle to the safety hook of your hoist.

**Step 2:** Position the hoist directly above the center of the drum. Lower the hoist hook sufficiently to allow the rim clamps to hang over the lid of the drum.

**Step 3:** Attach the rim clamps to opposite sides of the drum rim as shown in FIG. 2. Open the rim gripper of each clamp by pushing the gripper link towards the lower jaw. Then, put the upper jaw under the inside of the rim (see 2A). Bring the lower jaw into contact with the side of the drum and slowly release the gripper link. The rim gripper should contact the underside of the rim (see 2B).

**FIG. 2:** Clamp attachment

**Step 4:** Test the stability of the attachment by raising the drum a few inches off of the ground. Watch the drum and drum lifter for ~10 seconds. The rim clamps should not shift or slide. If the connection is stable, move the drum to the desired location.

**⚠WARNING** DO NOT attempt to lift and/or transport a drum if a stable bite on the rim cannot be achieved. An inadequate bite may occur if, for instance, the rim is so damaged that the jaws cannot make reliable contact with the rim surfaces. Return the drum to the ground and attach the lifter to an unharmed/normal section of the rim, and then repeat step 5. If the lifter still cannot grip the rim, use a different lifting device to lift and move the drum.

**Step 5:** Make sure that the drum is not swinging; then lower the drum until it rests on the ground. Lower the hoist until there is slack in the chains.

**Step 6:** Disengage each rim clamp from the rim of the drum.

- a. Press the lower jaw against the side of the drum.
- b. Press down on the gripper link to disengage the rim gripper from the underside of the rim.
- c. Lift the clamp to disengage the upper jaw from the rim.

## Inspections & Maintenance:

Inspect the lifter as recommended in ASME B30.20. Highlights of the inspection procedures appear below. However, the full procedures written in the published standard must be followed.

### **Inspections:**

**⚠WARNING** DO NOT use a lifting device that is structurally damaged. Structural damage includes, but is not limited to, bending, warping, cracking or other deformation of one or more components: shackle, rim clamps, or chains. Restore the lifter to normal operating condition BEFORE using it again.

Before & During EVERY lift, examine must be performed by the operator prior to AND during each lift. In particular, the *operator* should:

1. Remove dirt and debris from around the rim of the drum which might interfere with or prevent the rim clamps from properly engaging the rim.
2. Inspect the lifter to confirm that all parts are in normal operating condition. Open and close the rim grippers to confirm that the spring mechanisms function properly. The rim grippers should automatically close tightly against the upper jaws (see Fig. 1 “Detail view” on p.4).

Frequent Inspections: the specific meaning of “frequent” varies from daily to monthly depending on the service classification (normal, heavy, severe, and special/infrequent) of the clamp. Definitions of the service classifications appear in ASME B30.20. Inspect the lifter for the following:

1. Deformations, cracking, or excessive wear of the shackle, chains, and pins that connect the chains to the shackle and rim clamps.
2. Operating mechanisms of each rim clamps for conditions that interfere with proper function; AND/OR

Periodic Inspections: complete visual inspections performed AND recorded by a *qualified* person. The inspection should specifically look for:

1. Loose or distorted pins / fasteners;
2. Excessive wear, distortion of jaws or grippers; and
3. Excessive wear, cracking, or distortions of the shackle or any chain link.

**Maintenance:** Implement a maintenance program to ensure that the lifter remains in normal operating condition. A qualified person may establish a program that is used in preference to the maintenance procedures described below. However, if you apply the procedure that follows, complete EVERY step each time maintenance is performed.

**⚠WARNING** ONLY qualified persons may perform maintenance on the FDT. A qualified person is someone “who, by possession of a recognized degree in an applicable field or certificate of professional training, and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter [drum lifter] and work [use of the drum lifter].” See ASME B30.20-0.2-2003.

**Step 1:** Disconnect the drum lifter from the hoist hook and tag it “Out of Service.”

**Step 2:** Perform a “periodic” inspection of the unit; then perform all adjustments found to be necessary during the inspection. Deformities, corrosion or rust, or excessive wear of any part warrants immediate replacement of that part.

**⚠️WARNING** Understand the significant difference between “Adjustments” and “Repairs,” and “Modifications”.

1. Adjustment (or repair) means a simple correction that restores the lifter to normal operating condition, such as tightening loose fasteners, or removing debris from the surface of the lifter.  
DO NOT use the lifter if adjustments and/or repairs are incomplete! Return the lifter to service ONLY after finishing all necessary repairs and adjustments.
2. A modification is a change that alters the FDT from normal operating condition, like bending the structural members. NEVER modify the lifter without the express, written approval of Vestil. Modifications automatically void the limited warranty and might make the device unsafe to use.

Step 3: Perform a periodic inspection.

Step 4: Make a dated record of the repairs, adjustments and/or replacements made.

**Labeling diagram:**

Do not use the lifter unless it is labeled as shown in the diagram below. Immediately replace any label that is not easily readable.



Tag 993 (attached to shackle with zip tie):

Model No. _____	Serial No. _____
No. Modelo _____	No. Serie _____
Capacity _____ lbs.	Lifter Weight _____ lbs.
Capacidad _____ kgs.	Peso del Elevador _____ kgs.
BHT-1 Design Category: B BHT-1 Categoría de Diseño B	BHT-1 Service Category: 1 BHT-1 Categoría de Servicio: 1
993	
<b>Read Owners Manual for product safety warnings</b>	
<b>Lea Manual de Propietarios para advertencias de seguridad de producto</b>	

(On reverse side)

⚠️WARNING	⚠️ ADVERTENCIA
<ul style="list-style-type: none"> <li>• DO NOT exceed rated capacity</li> <li>• DO NOT use if damaged, malfunctioning, or missing parts</li> <li>• DO NOT lift people OR lift loads over people</li> <li>• DO NOT raise load higher than necessary</li> <li>• DO NOT leave a suspended load unattended</li> <li>• DO NOT use lifter unless you read and understand the owner's manual</li> <li>• DO NOT alter OR modify lifter</li> <li>• DO NOT remove OR obscure any label</li> <li>• STAY CLEAR of suspended loads</li> <li>• Secure load before using this device</li> </ul>	<ul style="list-style-type: none"> <li>• NO exceda la capacidad tasada</li> <li>• NO USE si las partes estan dañadas, no funcionan correctamente o faltan partes.</li> <li>• NO eleve al personal o eleve cargas sobre el personal</li> <li>• NO eleve la carga mas alto de lo necesario</li> <li>• NO deje desatendida una carga que este suspendida</li> <li>• NO use el elevador a no ser que haya leído y entendido las instrucciones del manual del propietario</li> <li>• NO altere o modifique el elevador</li> <li>• NO quite u oscurezca ninguna etiqueta</li> <li>• MANTENGASE alejado de las cargas suspendidas</li> <li>• Asegure la carga antes de usar este dispositivo</li> </ul>
993	993

## LIMITED WARRANTY

Vestil Manufacturing Corporation ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. *Our warranty obligation is to provide a replacement for a defective original part if the part is covered by the warranty, after we receive a proper request from the warrantee (you) for warranty service.*

### Who may request service?

Only a warrantee may request service. *You are a warrantee if* you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

### What is an "original part"?

An original part is a part used to make the product as shipped to the warrantee.

### What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by any of the following methods:

<u>Mail</u>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Corporation 2999 North Wayne Street, PO Box 507 Angola, IN 46703	(260) 665-1339 <u>Phone</u> (260) 665-7586	sales@vestil.com

In the written request, list the parts believed to be defective and include the address where replacements should be delivered.

### What is covered under the warranty?

After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil may require you to send the entire product, or just the defective part or parts, to its facility in Angola, IN. The warranty covers defects in the following original dynamic components: motors, hydraulic pumps, electronic controllers, switches and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

### How long is the warranty period?

The warranty period for original dynamic components is 30 days. For wearing parts, the warranty period is 30 days. The warranty periods begin on the date when Vestil ships the product to the warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend the warranty periods for products shipped from authorized distributors by up to 30 days to account for shipping time.

### If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any covered part. An authorized representative of Vestil will contact you to discuss your claim.

### What is not covered by the warranty?

1. Labor;
2. Freight;
3. Occurrence of any of the following, which automatically voids the warranty:
  - Product misuse;
  - Negligent operation or repair;
  - Corrosion or use in corrosive conditions;
  - Inadequate or improper maintenance;
  - Damage sustained during shipping;
  - Accidents involving the product;
  - Unauthorized modifications: DO NOT modify the product IN ANY WAY without first receiving written authorization from Vestil. Modification(s) might make the product unsafe to use or might cause excessive and/or abnormal wear.

### Do any other warranties apply to the product?

Vestil Manufacturing Corp. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty.

