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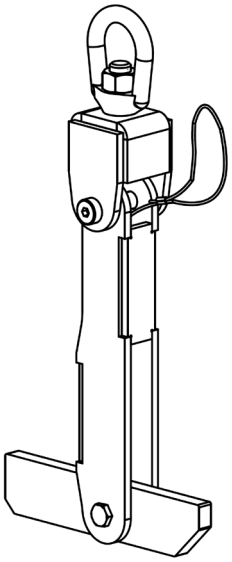
CRL-4-12-3000 Reel Lifter
Instruction Manual



Receiving Instructions

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE: The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

Technical Service & Replacement Parts

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The department can also be contacted online at http://www.vestilmfg.com/parts_info.htm.

Electronic copies of Instruction Manuals

Additional copies of this instruction manual may be downloaded from https://www.vestil.com/page-manuals.php.

Table of Contents

SIGNAL WORDS

This manual uses SIGNAL WORDS to draw attention to uses of the product that could result in personal injuries, as well as the probable seriousness of those injuries. Other signal words call attention to uses likely to cause property damage. Signal words used in this manual appear below along with the definition 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.

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

SAFETY INSTRUCTIONS

Vestil strives to identify all foreseeable hazards associated with the use of its products. However, material handling is dangerous and no manual can address every conceivable risk. Ultimately, the most effective way to prevent injury is to apply sound judgment whenever using this device.

WARNING Material handling is dangerous and could result in serious personal injuries or death.

- ***Read and understand the entire manual before assembling, installing, using, or servicing the cylinder lifter.*** DO NOT operate this device until you read and understand the entire instruction manual. Read the manual to refresh your understanding of proper use and maintenance procedures.
- This lifting device must only be used by designated persons and lifting device inspectors. Maintenance and test personnel should only use this device when necessary to perform their duties.
- DO NOT use this lifter if it is damaged, malfunctioning, or missing parts.
- DO NOT modify the product in any way without first obtaining written approval from Vestil. Unapproved modifications automatically void the *LIMITED WARRANTY* and might make the product unsafe to use.
- Inspect the lifter before each use. See *INSPECTIONS AND MAINTENANCE* on p. 4.
- Only attach the lifter to a properly functioning safety hook, i.e. a hook with a spring latch.
- DO NOT remove or obscure any label. Confirm the placement and legibility of all labels as shown below in “Labeling diagram”. If a label is damaged or unreadable, immediately replace it. DO NOT use this device UNLESS all labeling applied to the lifter is readable and undamaged. See *LABELING DIAGRAM* on p. 6.
- Follow loading instructions in *USING THE LIFTER* on p. 4. ONLY use the lifter to lift properly sized reels of material. DO NOT use this lifter to move a reel if the reel core is more than 4” (10.2cm) in diameter. The lifting arm must overlap the material by at least 2 inches on BOTH sides of the core.
- Make sure that all straps and chains are not kinked or twisted.
- DO NOT lift more than 1 reel at a time.
- Center the hoist above the reel core to minimize load swing as the lifter rises off of the ground. DO NOT side load the hoist. DO NOT lift a reel lying on its side. The core must face up to engage it with the lifter.
- DO NOT sit, or ride, on a suspended reel or the lifter.
- DO NOT exceed the rated load/capacity of your lifter. Capacity figures are provided in the *SPECIFICATIONS* section (p. #) and on product labeling. See *LABELING DIAGRAM* on p. 6.
- Carefully eliminate slack in the hoist line before raising the load. Lift and lower the load slowly and steadily. Avoid jolting the load.
- Slowly raise the loaded lifter a few inches above the ground to determine whether the load is stable.
- DO NOT lift a load higher than necessary. (See “Using the lifter” on p. 4).
- DO NOT raise the load over your feet or any other part of your body. NEVER lift material over yourself or other people. NEVER lift people or lift suspended loads over people.
- Avoid contact with the load while it is suspended. Watch the load carefully while lifting and moving it. The load could swing or spin while elevated.
- DO NOT leave a suspended load unattended.
- DO NOT pull, drag, or slide loads with the lifter.
- DO NOT lift loads any higher than necessary. Keep the suspended load as close to the ground as possible while moving it. Avoid obstructions while moving the load.

NATIONAL STANDARDS

This product is categorized as a “Below-the-Hook Lifting Device” (BTH lifters). ASME standard B30.20 (the “Standard”) applies to BTH lifters. You ***should*** acquire a copy of the latest version of the Standard before putting the lifter into service. Follow all use and maintenance/care instructions provided in the Standard as well as all other provisions for owners and users. If content in this manual conflicts with any recommendations or mandatory provision(s) in the Standard, apply the provision(s) from the Standard. Vestil encourages you to immediately contact *TECHNICAL SERVICE* if you discover any conflicts.

RECORD OF SATISFACTORY CONDITION

Record the condition of the lifter before putting it into regular service. Measure the length and width of the shackle. Record your measurements. Thoroughly photograph the unit from multiple angles. Include close range photos of all labeling, the lifting shackle, the lifting arm, fasteners (pins, bolts, nuts, etc.), cable attachment points, and welds. Collate all photographs and writings into a single file. Mark the file appropriately to identify it. This record is documentation of the lifter in satisfactory condition. Compare the results of all inspections to this record to determine whether the unit is in satisfactory condition. If the lifter is not in satisfactory condition, repair it before returning it to service. Purely cosmetic changes, like damaged paint/powdercoat, do not constitute changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as cosmetic damage occurs to prevent rusting and corrosion. If left unaddressed, rusting/corrosion will alter the lifter from satisfactory condition and could make it unsafe to use.

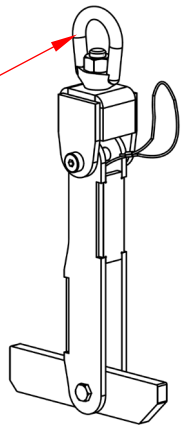
LOAD TESTS

After creating a *RECORD OF SATISFACTORY CONDITION* *and b*efore using the lifter for the first time, a qualified person should conduct a load test. The test load should be 125% of the rated load of the lifter. The rated load of all CYL-P-LUG lifters is 800 pounds (363.6kg), so the test load should be 1000 pounds (454.5kg). Raise the lifter until it is suspended. Return the lifter to the ground and unload it. Perform a *Monthly Inspection* as described in *INSPECTIONS AND MAINTENANCE* (below). The lifter must undergo load testing immediately after it is repaired, modified, or altered.

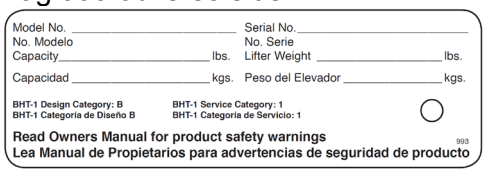
LABELING DIAGRAM

The unit should be labeled as shown in the diagram. However, label content and location are subject to change so your product might not be labeled exactly as shown. Replace all labels that are damaged, missing, or not easily readable (e.g. faded). To order replacement labels, contact the technical service and parts department online at http://www.vestilmfg.com/parts_info.htm. Alternatively, you may request replacement parts and/or service by calling (260) 665-7586 and asking the operator to connect you to the Parts Department.

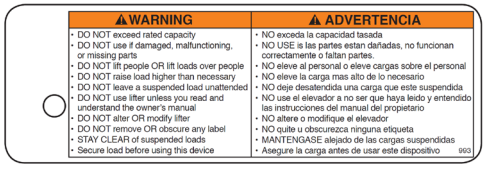
Tag 993 attached to shackle with cable tie



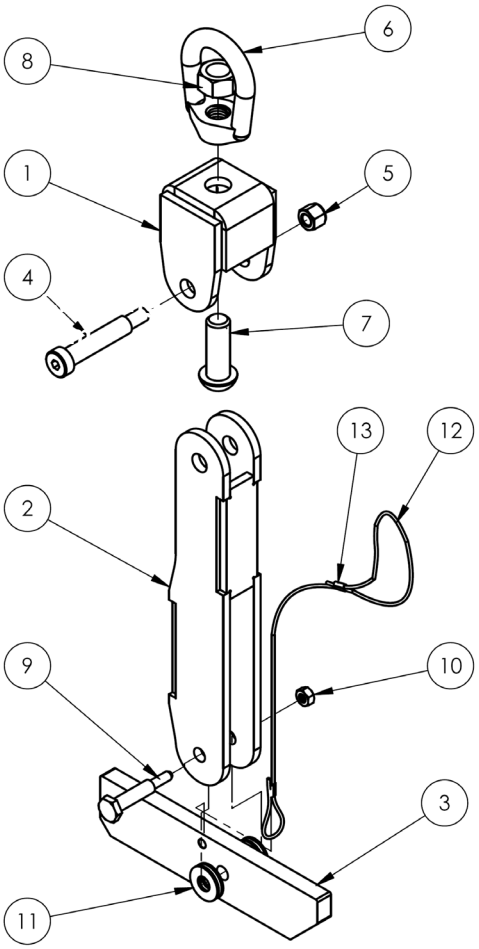
Tag 993 obverse side



Tag 993 reverse side

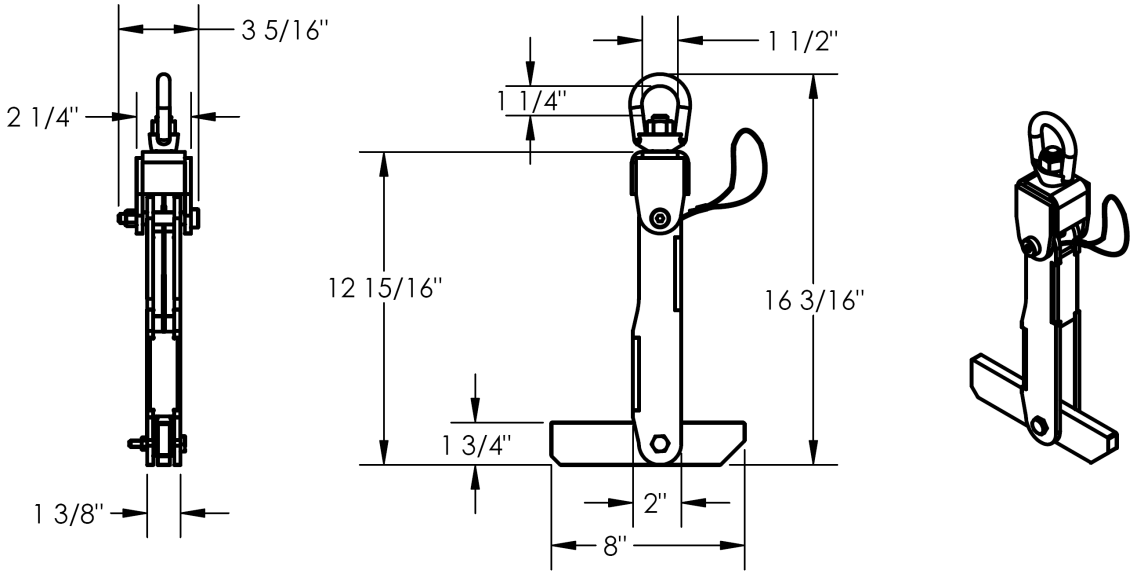


EXPLODED VIEW AND BILL OF MATERIALS



Item	Part no.	Description	Qty.
1	49-514-008	Weldment, frame, top	1
2	49-514-009	Weldment, frame, bottom	1
3	49-014-031	Frame, lift arm	1
4	9449A370	Steel hex head shoulder screw	1
5	37024	Nylon insert lock nut, gr. 2, zinc finish, $^{3}/_{8}$"-16	1
6	3019T19	Steel eye nut	1
7	91255A798	BHCS, $^{5}/_{8}$"-11 x 1$^{3}/_{4}$"	1
8	95462A533	Hex nut, $^{5}/_{8}$"-11	1
9	94496A370	Steel hex head shoulder screw	1
10	37018	Nylon lock nut, gr. 2, zinc finish, $^{1}/_{4}$"-20	1
11	33008	Flat washer, low carbon, USS, zinc plated, $^{3}/_{8}$"	4
12	49-145-003	Cable, lifting arm	1
13	43380	Swage sleeve, $^{1}/_{16}$" aluminum wire rope	2

SPECIFICATIONS



Minimum core diameter = 2$^{1}/_{2}$" (6.4 cm) Maximum core diameter = 4" (10 cm)
Capacity = 3,000 lb. (1363.6 kg)

USING THE LIFTER

Step 1: Attach the shackle to the safety hook of your hoist or other lifting device.

Step 2: Position the lifter above the center of the coiled material. Lower the lifter through the center of the material. The bottom half of the lifter should hang below the material.

Step 3: Pull the lifting arm cable to raise the lifting arm. When lifted, the arm will be perpendicular to the main body of the lifter. Raise the lifter and bring the lifting arm into contact with the bottom of the material. Make sure that the lifter is centered in the material. If it isn't, lower the lifter and adjust its position until it is centered. The center line of the lifter (dotted red line) should align with the center of the reel of material.

Step 4: Raise the material a few inches above the ground. Observe the material and lifter for approximately 10 seconds to test the stability of the lift. If the contact is unstable, return the material to the ground and adjust the position of the lifter. Do not proceed to the next step until stability is achieved.

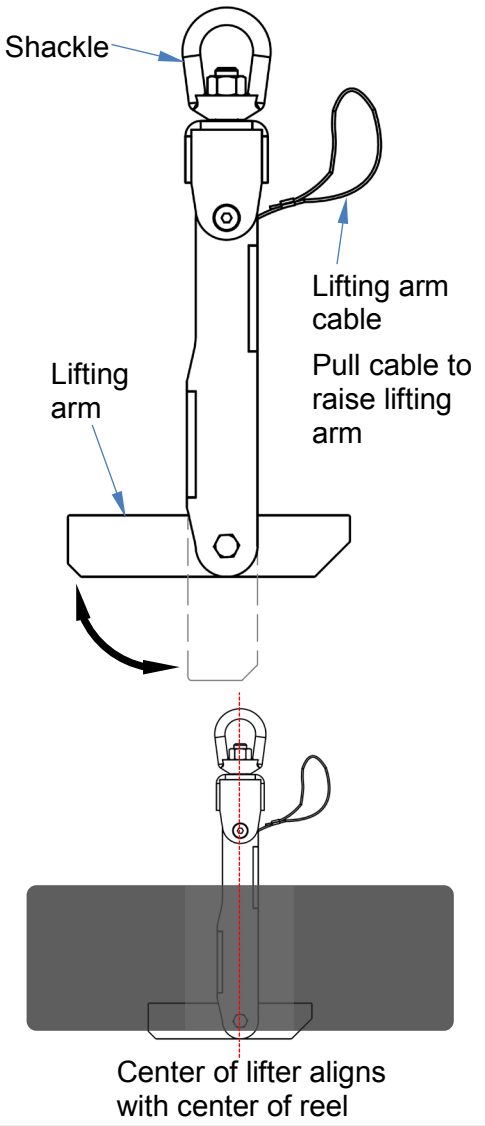
Step 5: Transport the material to the desired location.

a. Overhead hoist: Lift the material ~5-6 inches above the ground. Minimize load swing by moving the hoist *slowly*.

b. Forklift: drive slowly, particularly while turning. The material will tend to swing opposite the direction of a turn, so reduce speed during all turns. The material will swing out in front of the forklift during braking. Apply the brakes gradually.

Step 6: Make sure that the load is not swinging or spinning. Then, slowly lower it until there is slack in the hoist chain.

Step 7: Lower the lifter. When it is sufficiently lowered, the lifting arm will rotate to the upright position. At that point, the lifter can be raised and extracted from the material.



INSPECTIONS & MAINTENANCE

Inspection procedures are included in the most current revision of ASME B30.20. As stated above in the *NATIONAL STANDARDS* section, Vestil recommends that you acquire a copy of the most recent revision of this standard. Apply all use and maintenance/care instructions in the standard. Vestil also recommends that you contact your local occupational safety and health authority to determine if any laws, regulations, codes, ordinances, etc. apply inspection requirements to below-the-hook lifters.

Inspections and repairs should only be performed by qualified persons. Compare the results of each inspection to the *RECORD OF SATISFACTORY CONDITION*. Do not use the lifter unless all parts are in satisfactory condition. Replace parts that are not in satisfactory condition before using the lifter again. **DON'T GUESS! If you have any questions about the condition of your lifter, contact the *TECHNICAL SERVICE* department.** The phone number is provided on the cover page of this manual. *Never make temporary repairs of damaged or missing parts*. Only use manufacturer-approved replacement parts. Deformities, cracks, and severe wear of the lifting arm or main body requires immediate replacement of the entire unit**.**

Visually examine the device before each use and at least once per month. Record all results.

1. Shackle: make sure that the shackle is not bent, cracked, or severely worn. The shackle should be securely fastened to the lifter. Tighten fasteners, if necessary.
2. Lifting arm and main body of lifter: confirm normal condition. Check welds and pivot points for cracks. Check pivot point hardware for damage.
3. Cable: examine the cable for cuts, frays, kinks, corrosion, and other damage.

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 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.

Definition of "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 one of the following methods:

US Mail	Fax	Email
Vestil Manufacturing Corporation	(260) 665-1339	info@vestil.com
2999 North Wayne Street, PO Box 507	Phone	Enter "Warranty service request"
Angola, IN 46703	(260) 665-7586	in subject field.

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. 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 will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?
The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, 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 90 days. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date 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 a warranty period 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?
The Warrantee (you) is responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unauthorized modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

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. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.