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VDL-22.5 Vertical Drum 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.

Replacement Parts and Technical Service:





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.

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Signal Words:

This manual classifies personal injury risks and situations that might cause property damage with "Signal words". Signal words indicate the seriousness of injuries that might result if a particular act or omission occurs.

-  **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 boom.

Hazards:

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 possible risk. The most effective means for avoiding injury is for the end user to apply sound judgment whenever using this device.

-  **WARNING** If this product is used improperly or carelessly, serious personal injuries or death might result.
 - **Read and understand the entire manual before assembling, installing, using or servicing the product.** Read the manual to refresh your understanding of proper use and maintenance procedures as needed.
 - **DO NOT** exceed the capacity. Capacity appears on tag 993. See [Labeling Diagram](#) on p. 5.
 - The lifting equipment (crane, hoist, trolley) must have **AT LEAST** the same capacity as this lifter. The capacity of this lifter is 1,000 pounds (454.5kg). **DO NOT** attempt to lift a load that weighs more than the capacity of the lifting component (crane, trolley, hoist, or lifter) with the smallest capacity. For example, if the crane, hoist, and lifter all have capacities of 1,000 pounds, but the trolley has a capacity of 1,500 pounds, the net weight applied to the trolley must not exceed 1,000 pounds.
 - **ALWAYS** inspect the lifter before each use according to the inspection procedures described in the most recent revision of ASME standard B30.20.
 - Review the safety messages included in the manuals for your crane, trolley, hoist, and any other device used in conjunction with this product.
 - **DO NOT** open the lifter while using it to lift a drum. Be certain that the drum is fully supported by the ground or other surface, and is fully immobilized, i.e. can't fall over, roll, slide, or move in an uncontrolled manner, before disconnecting the lifter from the drum.
 - **ALWAYS** attach the lifter to a properly functioning safety hook or to a coupler that prevents accidental or unintended detachment.
 - Before attaching the lifter to a drum, inspect the drum. Verify that all parts, especially the rim/lip and rolling rings, are sound. **DO NOT** attempt to lift the drum with the lifter if the drum is not sound.
 - Both drum cradles must firmly engage the side and upper rolling ring of the drum. **DO NOT** use the lifter if it does not close tightly against the drum.
 - Always test the connection between the lifter and the drum by lifting the drum a few inches above the ground. Keep the drum elevated for 30 seconds. Only use the lifter to move the drum if the connection is adequate and the drum does not distort while suspended.
 - **DO NOT** use the VDL to lift drums over people.
 - **DO NOT** stand or walk, or allow any other person to stand or walk, beneath an elevated drum. **DO NOT** raise the load over your feet or any other part of your body. Avoid contact with the side of the drum while it is elevated.
 - Every person not involved with lifting the drum should remain outside the lifting area for the duration of the lift.
 - Prevent load swing! Center the trolley, hoist and lifter above the drum before attaching it to the lifter. Slowly and carefully raise the drum.
 - **DO NOT** elevate the drum more than a few inches from the ground. Only lift drums a few inches above the ground to avoid contact with objects in the travel path.
 - **DO NOT** remove or obscure any label. Verify the placement and legibility of all labels and tags shown in the [Labeling Diagram](#) on p. 5. **DO NOT** use this device **UNLESS** all labels and tags are readable, undamaged, and securely fastened to the device.
 - **DO NOT** sit on or apply any weight/pressure to a suspended drum.

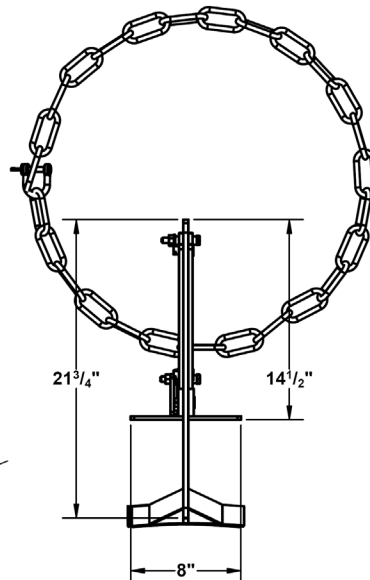
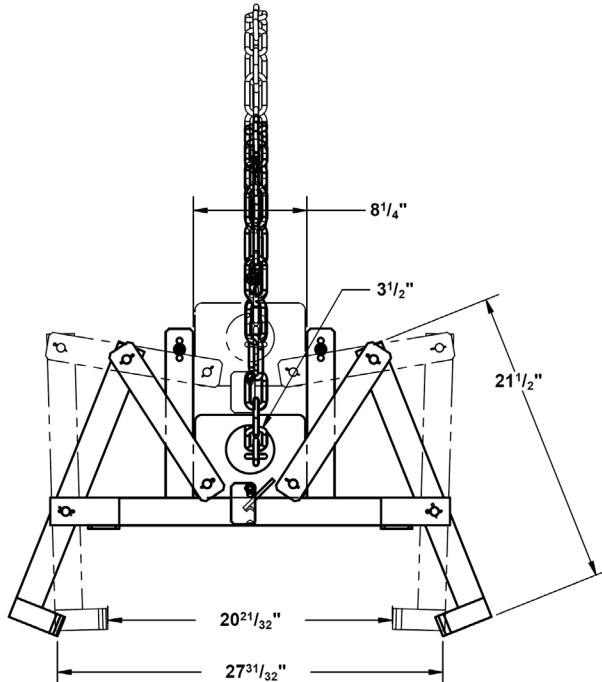
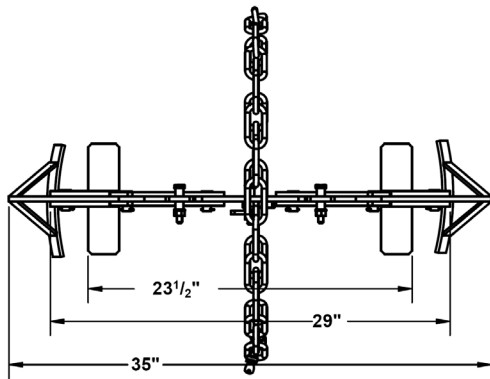
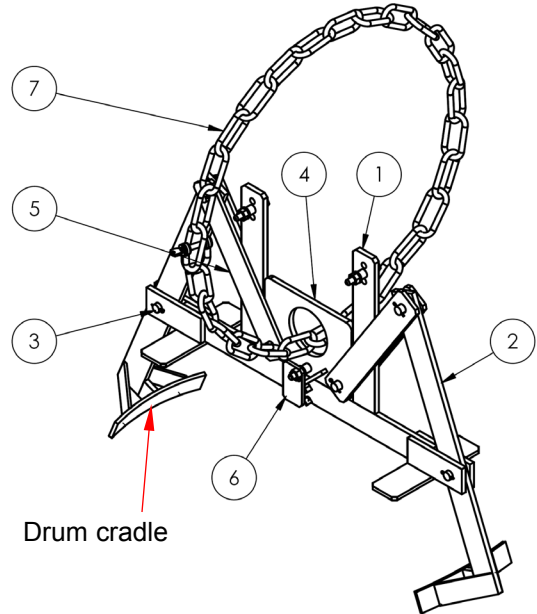
- DO NOT leave a suspended drum unattended. Always move the drum to its desired location, set it down and properly immobilize it, and then disengage the drum before walking away from it
- DO NOT modify the lifter in any way UNLESS you first obtain written approval from Vestil. Unapproved modifications automatically void the [Limited Warranty](#) on p. 6 and might make the lifter unsafe to use.

NOTICE Proper use, maintenance, and storage are essential for this product to function properly for as long as possible.

- Keep the product clean & dry.
- Periodically lubricate moving parts.

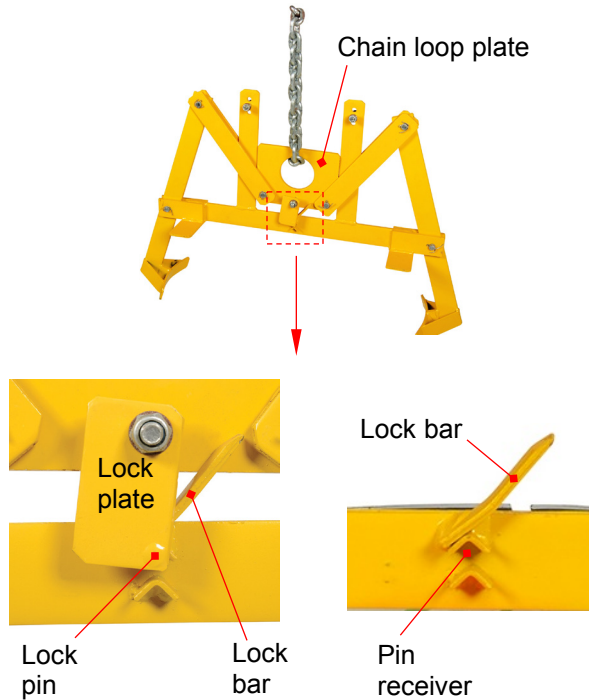
Assembly View, Bill of Materials, and Dimensions

Item	Part no.	Description	Qty.
1	09-001-141-ASM-01	Weldment, frame	1
2	09-001-141-ASM-02	Weldment, clamp arm	2
3	09-154-018	Hardware kit, VDL	1
4	09-001-141-M	Chain loop plate	1
5	09-001-141-N	Connecting arm	4
6	09-001-141-O	Lock plate	1
7	09-001-141-ASM-04	Chain	1

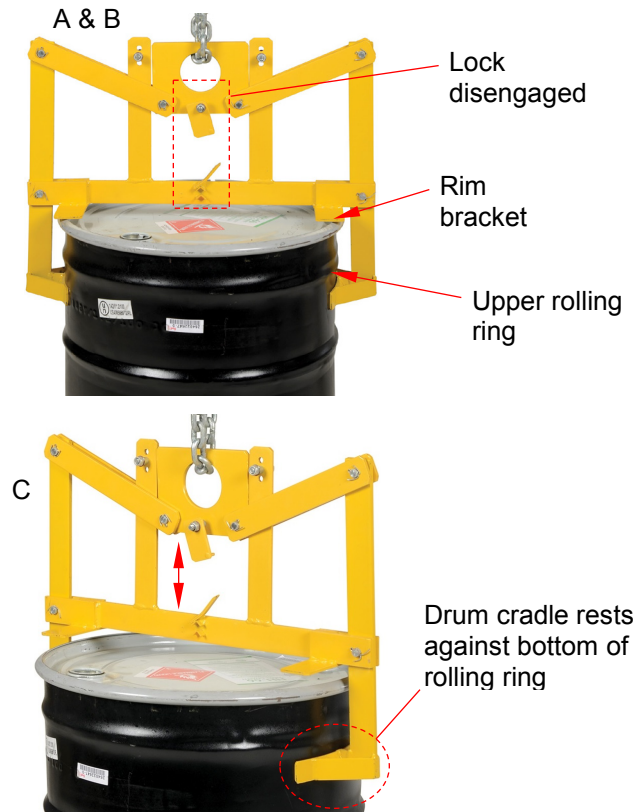


Using the Lifter:

Step 1: Attach the chain to a hoist hook. The lifter should be locked in the raised position shown in the illustration. The lock is applied when a short pin welded to the inside face of the lock plate seats into the pin receiver. Disengage the lock by rotating the lock plate counterclockwise to unseat the lock pin. Move the lifter into position above a drum.



Step 2: Attach the lifter to the drum: A) Lower the lifter until the rim brackets contact the top of the drum; B) Disengage the lock; and C) Then, raise the lifter until both drum cradles rest against the upper rolling ring.



Step 3: To release the drum, set it on the ground. Continue to lower the hoist hook until there is slack in the chain. The chain loop plate descends which opens the arms and releases the drum. Lower the hoist hook sufficiently to allow the lock to automatically reapply. Once the lock pin seats into the receiver, raise the hoist hook and move the lifter away from the drum.

Record of Original Condition:

Before using the lifter for the first time, make a written record to document its appearance. Include observations about all parts of the lifter: hardware/pins, chain, frame, lock components, chain loop plate, the clamp arms, connecting arms, tags and labels. Thoroughly photograph the lifter, labels, and tags. Add the photographs to the record. Attach the lifter to a drum by following the instructions in *Using the Lifter* on p. 4. Describe how easily the chain loop plate slides up-and-down. This record establishes original condition. During future inspections, compare your observations to the record to determine if the unit is in original condition. **DO NOT use the lifter unless it is in original condition.** Purely cosmetic changes like damaged powder coat do not constitute changes from normal condition. However, touchup paint should be applied wherever the finish is damaged as soon as damage occurs.

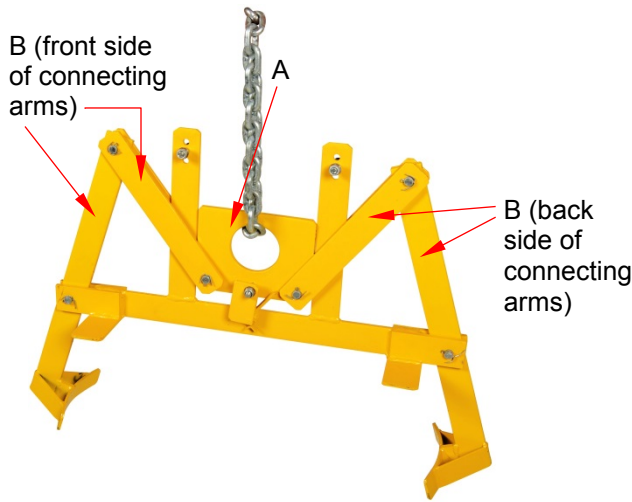
Inspections & Maintenance:

Examine the following elements **before each use** for changes from **original condition**.

1. Chain and chain loop plate: Check for cracks, warps, and severe wear. Check the plate for cracks, warps, and thinning areas that could be produced by the chain rubbing against it. Lubricate the edges of the plate to allow it to slide easily. Closely examine the pivot points where pins connect the plate to the connecting arms for changes. Make sure that all links in the chain are undamaged.
2. Lock mechanism: Confirm that the lock works properly. Put the lifter in locked position. See **Step 1** on p. 4. The clamp arms should not be able to close (move towards each other) without first releasing the lock.
3. Frame, connecting arms, and clamp arms: Check welds and frame elements for breaks and severe wear. Remove rust/corrosion with a brush or steel wool. Clean these areas and apply touchup paint. The frame should be square and rigid.
4. Pivot points: Inspect all pivot points for severe wear, cracks, elongations, warps, etc. Lubricate pivot points periodically.
5. Make a dated record of the inspection. Indicate whether each component inspected is in original condition. Describe all repairs, adjustments and/or replacements. Only install manufacturer-approved replacement parts.

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). Order replacement labels by contacting 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.



A: Tag 993 (attached to chain loop plate with zip tie)

Model No. _____	Serial No. _____
No. Modelo _____	No. Serie _____
Capacity _____ lbs.	Lifter Weight _____ lbs.
Capacidad _____ kgs.	Peso del Elevador _____ kgs.
BTH-1 Design Category: B BTH-1 Categoría de Diseño B	BTH-1 Service Category: 1 BTH-1 Categoría de Servicio: 1
Read Owners Manual for product safety warnings Lea Manual de Proprietarios para advertencias de seguridad de producto	
993 rev 1018	

⚠ WARNING	⚠ ADVERTENCIA
• DO NOT exceed rated capacity • DO NOT use if damaged, malfunctioning, or missing parts • DO NOT lift people OR lift loads over people • DO NOT raise load higher than necessary • DO NOT leave a suspended load unattended • DO NOT use lifter unless you read and understand the owner's manual • DO NOT alter OR modify lifter • DO NOT remove OR obscure any label • STAY CLEAR of suspended loads • Secure load before using this device	• NO exceda la capacidad tasada • NO USE is las partes estan dañadas, no funcionan correctamente o faltan partes. • NO eieve al personal o eieve cargas sobre el personal • NO eieve la carga mas alto de lo necesario • NO deje desatendida una carga que este suspendida • NO use el elevador a no ser que haya leído y entendido las instrucciones del manual del propietario • NO altere o modifique el elevador • NO quite u oscurezca ninguna etiqueta • MANTENGASE alejado de las cargas suspendidas • Asegure la carga antes de usar este dispositivo

B: Label 208 (applied to link arms)

⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
KEEP CLEAR OF PINCH POINT	MANTENGASE ALEJADO DEL PUNTO DE CORTE	SE TENIR À DISTANCE DU POINT DE PINCEMENT
208A		

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:

<u>US 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	info@vestil.com Enter “Warranty service request” 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 30 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.

