



PALLET LIFTER INSTRUCTION MANUAL



HDP-(2 or 4)-(36 ,42, or 48) & HDP-6-(42, 48, 52)

MODEL No. _____
SERIAL No. _____

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NOTE: The end-user is responsible for verifying that the lifter complies with all regulations, codes, and/or standards that apply in the location where it is used.

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PRODUCT INTRODUCTION



Thank you for purchasing a Pallet Lifter (“pallet lifter”, “lifter” or simply “HDP”) made by Vestil Manufacturing Corporation (“Vestil”). Our lifters are durable, high-quality products that combine safety features and rigorous engineering. Although operation is relatively intuitive, all personnel must familiarize themselves with the instructions provided in this manual before using the lifter.

The solid steel design includes tapered tines to facilitate pallet lifting. Use your HDP lifter to transport and lift evenly-distributed, centered, palletized loads. Additional product specifications appear in the following table:

Model	Fork Length (inches)	Overall Fork Width (inches)	Other Fork Dimensions (W x H) inches	Bail (W x H) inches	Maximum Rated Load (pounds)	Net Weight (pounds)
HDP-2-36	36	25	2" x 2"	3" x 5"	2,000	431
HDP-2-42	42	25	2" x 2"	3" x 5"	2,000	443
HDP-2-48	48	25	2" x 2"	3" x 5"	2,000	486
HDP-4-36	36	25	3" x 2"	3" x 5"	4,000	626
HDP-4-42	42	25	4" x 2"	3" x 5"	4,000	687
HDP-4-48	48	25	4" x 2"	3" x 5"	4,000	768
HDP-6-42	42	25	5" x 2"	4" x 7"	6,000	776
HDP-6-48	48	27	5" x 2"	4" x 7"	6,000	961
HDP-6-52	52	30	5" x 2"	4" x 7"	6,000	992

Vestil Manufacturing Corp. created this manual to acquaint owners and users of our pallet lifters with safe use and maintenance procedures. Employers are responsible for instructing employees to use the product properly. Employees and any other persons, who might foreseeably use, repair, or perform maintenance on the HPD must read and understand every instruction BEFORE using the device. Lift operators should have access to the manual at all times and should review the directions before each use. Contact Vestil for answers to any question you have after reading the entire manual.

Although Vestil diligently strives to identify foreseeable hazardous situations, this manual cannot address every conceivable danger. The end-user is ultimately responsible for exercising sound judgment at all times.

SAFETY PRINCIPLES

Vestil Manufacturing Corp. recognizes the critical importance of workplace safety. Each person who might participate in operation or maintenance of the product must read this manual. Read the entire manual and fully understand the directions BEFORE using or performing maintenance on the pallet lifter. If you do not understand an instruction, contact Vestil for clarification. Failure to adhere to the directions in this manual might lead to serious personal injury or even death.

Vestil is not liable for any injury or property damage that occurs as a consequence of failing to apply the safe maintenance and operation methods that appear either in this manual or on labels affixed to the product. Furthermore, failure to exercise good judgment and common sense may result in property damage, serious personal injury or death, and also are not the responsibility of Vestil.

This manual classifies personal injury risks and situations that could lead to property damage with SIGNAL WORDS. These signal words announce an associated safety message. The reader must understand that the signal word chosen indicates the seriousness of that hazard according to the following convention:

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 not related to personal injury, such as operation that could damage the lifter. No safety alert symbol (equilateral triangle enclosing an exclamation point) accompanies this signal word.

SAFETY GUIDELINES

Read the entire manual before you use the clamp for the first time and before each subsequent use. Refer to the manual for safe use and maintenance procedures described on p. 7-12. If questions remain after you finish reading the manual, contact Vestil for answers. DO NOT attempt to resolve any problems with the clamp unless you are *certain* that it will be safe to use afterwards. NEVER modify the product in any way without the express, written approval of Vestil.

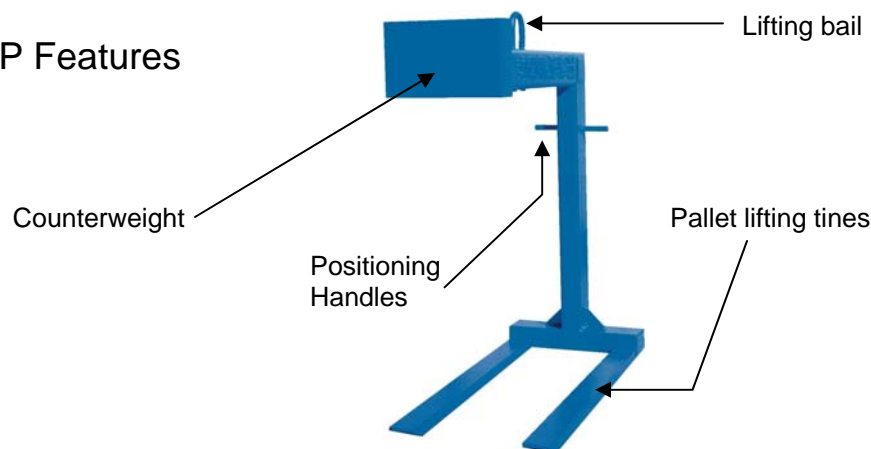
⚠ DANGER

- **Electrocution Risk: DO NOT contact live electrical wires with the clamp or the load!**

⚠ WARNING

- Before using the lifter, review the operation instructions and the safety messages included in the instruction manuals for your crane, trolley, hoist, and any other device used in conjunction with the pallet lifter.
- ALWAYS inspect the pallet lifter before each use according to the procedures learned during your training program or as recommended by the ASME in the most recent edition of ASME standard B30.20.
- DO NOT connect the device to a hoist hook that might accidentally/unintentionally release the clamp. ALWAYS attach the lifter to a hoist that has a safety hook attached to the end of the chain or rope, or to a connector that includes safety mechanisms to prevent accidental/unintended detachment from the hoist. DO NOT connect the clamp to a safety hook that does not function properly or that is damaged.
- DO NOT attempt to engage a pallet if either the lifter or the pallet has any debris (oil, grease, water, dirt, or other matter on its surface) on it that might affect the connection between the lifter and the pallet. Remove all debris before using the lifter to move a pallet.
- **Make sure that no person is in the travel path of the load as it is moved with the lifter.**
- DO NOT remove or obscure any label. Verify the placement and legibility of all labels as shown in FIG. 2 on p. 6. If a label is damaged or unreadable, immediately contact Vestil for a replacement. DO NOT use the clamp UNLESS all labels are securely attached and readable.
- DO NOT attempt an unbalanced lift. Raise the load slowly to verify that it will not slide off of the tines. If the load begins to shift toward the free ends of the tines as the load is raised, immediately return the load to the ground.
- DO NOT lift more than one pallet or try to lift stacked pallets..
- DO NOT sit on or apply any weight/pressure to the material held by the clamp.
- DO NOT attempt to lift material that weighs more than the rated load of the clamp. ALWAYS make sure that the material weighs no more than the rated load of the clamp.
- DO NOT lift a load higher than necessary. Only raise the load as high as conditions along the travel path require to avoid obstacles.
- DO NOT raise the load over your feet or any other part of your body.
- DO NOT use the pallet lifter to move material over people or to lift any apparatus that supports people, such as a work platform. The clamp is designed ONLY to lift evenly distributed, centered palletized loads.
- DO NOT get in front of or behind a suspended load while moving it. Stand clear of the lifter and load and orient yourself so that the load is visible to you.
- DO NOT leave suspended loads unattended. An unattended, suspended load creates a risk of injury to yourself and others. Always move the load to its desired location, set it down and properly immobilize it; then disengage the pallet. Return the lifter to its storage location and disconnect it from the hoist BEFORE leaving the work area.

Fig. 1: HDP Features



Operation Instructions:

This lifter is designed to be used in conjunction with closed bottom skids. Loads used with this lifter need to be secured to the skid and symmetrically distributed on the skid. If items are not secured to the skid, they might fall off or shift, which could cause the center of gravity to change and the entire load might slide off of the tines.

Connect the safety hook of the hoist chain/cable to the lifting bail loop on top of the lifter. Be sure that the hoist has a safety latch to insure that the hook cannot accidentally disengage the bail.

Direct the tines of the pallet lifter through the pallet fork slots until the forks are fully inserted.

Using the overhead hoist, raise the pallet lifter and load slowly to check for load balancing and stability. If the load is not balanced, reposition the pallet on the forks and try again. Never lift a pallet that extends beyond the front edge of the tines.

When trying to align the pallet lifter with the load, use the positioning handles located on the rear of the unit. Never place your feet underneath the unit when positioning the load. To remove the pallet from the lifter, place the load on the ground and with the lifter slightly raised remove the pallet lifter from the rear of the pallet.

Maintenance and Inspections

A designated person must verify that the pallet lifter complies with all regulations, codes, and standards that apply to Below-the-Hook Lifting Devices in the location where it is *used*. Additionally, designated inspection personnel must inspect the lifter before it is used for the first time, and prior to EACH use.

Inspections:

⚠ WARNING DO NOT use a pallet lifter that is structurally damaged. Structural damage includes, but is not limited to, bending, warping, cracking or other deformation of one or more of the lifting bail, tines, or frame members. Restore the lifter to normal operating condition **BEFORE** using it again.

NOTICE The end-user is responsible for performing inspections. The American Society of Mechanical Engineers published inspection procedures in ASME standard B30.20, which categorizes inspections based on regularity of performance. Highlights of the recommended inspection procedures appear below. However, the complete procedures as written in the standard should be followed.

Inspections Before & During EVERY lift: visual examination by the operator prior to AND during each lift. In particular, the *operator* should inspect for:

1. Debris on the load surfaces; AND
2. Surface and frame abnormalities.

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 lifter. Definitions of the service classifications appear in ASME standard B30.20. The *operator* (or other *designated person*) should visually inspect the lifter for:

1. Deformation, cracking, or excessive wear of ANY PART of the lifter;
2. Operating mechanisms for conditions that interfere with proper function; AND/OR
3. Loose or missing fasteners, stops, labels or nameplates.

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

1. Loose bolts or fasteners;
2. Excessive wear of load surfaces or other frame elements; AND/OR
3. Excessive wear at the points where the lifting bail connects to the hoist hook, and load supporting tines.

Maintenance: the end-user must implement a maintenance program to ensure the proper function of the lifter. 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 clamp. 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 [pallet lifter] and work [use of the pallet lifter].” See ASME B30.20-0.2-2003.

Step 1: All sources of power must be disconnected, locked out and tagged, “Out of Service.”

Step 2: Disconnect the lifter from the hoist hook and tag it, “Out of Service.”

Step 3: If an inspection ((every lift, frequent, or periodic) revealed a problem or abnormality with the lifter, perform all necessary adjustments.

Step 4: If other conditions exist which require new/replacement parts to correct, contact Vestil. Deformity, corrosion, rusting, or excessive wear of structural members warrants immediate replacement.

⚠WARNING The reader should understand the significant difference between “Adjustments” and “Repairs,” and “Modifications”.

➤ An adjustment or repair refers to a simple correction that restores the device to normal operating condition, such as tightening loose fasteners, or removing debris from the surface. DO NOT use the clamp if adjustments and/or repairs are incomplete! Return the lifter to service ONLY after finishing all necessary repairs and adjustments.

➤ A modification is a change that alters the lifter from normal operating condition, like bending the structural members. **NEVER modify the HDP without the express, written approval of Vestil, because modification may render the device unsafe to use.**

Step 5: Perform a periodic inspection, as recommended in ASME B30.20.

Step 6: Make a dated record of the repairs, adjustments and/or replacements made.

Product Markings & Labels

Only use the pallet lifter if ALL labels are readable and undamaged. The diagram below indicates the proper location of each of the 5 labels that should be affixed to the lifter at all times. Contact Vestil for replacement labels.

NOTE: All 5 labels should be present on both sides of the lifter.

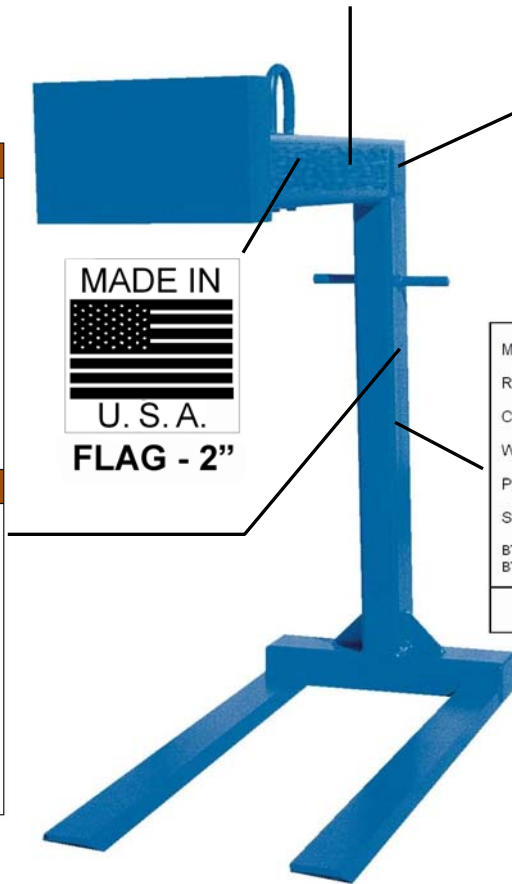
Fig. 2: Label placement diagram

Label #624

⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
CENTER LIFTING HOOK ABOVE LOAD. CENTER OR LOAD DUMPING MAY OCCUR. ADJUST LOCATION OF LOAD OR LIFTING HOOK, IF ADJUSTABLE. DO NOT EXCEED RATED CAPACITY. HOIST CAPACITY MUST EQUAL OR EXCEED LIFTER CAPACITY PLUS WEIGHT OF UNIT. LIFT SLOWLY. STAND CLEAR WHILE LIFTING.	CENTRE EL GANCHO DE ELEVACION ENCIMA DEL CENTRO DE LA CARGA O LA CARGA SE PODRIA DESCARDAR. AJUSTE EL LUGAR DE LA CARGA O DEL GANCHO DE ELEVACION, SI ES ADJUSTABLE. NO EXCEDA LA CAPACIDAD TASADA. LA CAPACIDAD DEL TORNO DEBE IGUALAR O DEBE EXCEDER LA CAPACIDAD DE ALZADOR EL PESO POSITIVO DE LA UNIDAD. ELEVE LENTAMENTE. MANTENGASE APARTADO MIENTRAS SE ELEVE.	CENTRER LE CROCHET DE LEVAGE AU-DESSUS DU CENTRE DE LA CHARGE OU UN BENNAGE DE LA CHARGE RÉSULTERAIT. AJUSTER LA POSITION DE LA CHARGE OU DU CROCHET DE LEVAGE, SI EST POSSIBLE. NE PAS DÉPASSER LA CAPACITÉ NOMINALE. CAPACITÉ DE L'APPAREIL DE LEVAGE DOIT ÉGALER OU DÉPASSER LA CAPACITÉ DE L'ÉLEVATEUR AVEC LE POIDS DE L'UNITÉ. LEVER LENTEMENT TENEZ-VOUS À L'ÉCART PENDANT LEVAGE.
VESTIL MANUFACTURING CORPORATION Angola, Indiana USA - Phone (260) 665-7586 - sales@vestil.com - www.vestil.com		
624		

Label #675

⚠ WARNING
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
⚠ ADVERTENCIA
NO exceda la capacidad tasada NO USE is las partes estan dañadas, no funcionan correctamente o faltan partes. NO eleve al personal o eleve cargas sobre el personal NO eleve 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
675



LOGO - Large

Label #320

MODEL NUMBER/NUMERO MODELO _____
RATED LOAD _____ LBS.
CARGA TASADA _____ KGS.
WEIGHT OF LIFTER _____ LBS.
PESO DE LA UNIDAD _____ KGS.
SERIAL NUMBER/NUMERO DE SERIE: _____
BTH-1 Design Category/Diseño BTH-1 Categoría: B
BTH-1 Service Category/Servicio BTH-1 Categoría: 1
VESTIL MANUFACTURING COMPANY 320 Phone (260) 665-7586 • www.vestil.com rev 0409

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:

Mail
Vestil Manufacturing Corporation
2999 North Wayne Street, PO Box 507
Angola, IN 46703

Fax
(260) 665-1339
Phone
(260) 665-7586

Email
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”): bearings, hoses, wheels, seals, brushes, batteries, and the battery charger.

How long is the warranty period?

The warranty period for original components is 90 days. The warranty period begins on the date when Vestil ships the product to the warrantee. If the product was purchased from an authorized distributor, the period begins when the distributor ships the product. Vestil may extend the 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?

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 environments;
 - Inadequate or improper maintenance;
 - Damage sustained during shipping;
 - Collisions or other incidental contacts causing damage to 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.

