



Vestil Manufacturing Company

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FLAD Series Folding Ladders



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 <https://www.vestil.com/page-parts-request.php>.

Electronic Copies of Instruction Manuals

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

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1. INTRODUCTION

Vestil's FLAD series folding ladders are intended for use in industrial and commercial applications where they provide portable, space-saving access to elevated areas. These ladders feature a locking, foldable design that allows for compact storage and easy portability via 2 frame-mounted wheels as well as perforated non-slip steps. FLAD models are available in both carbon steel or 202-grade stainless steel.

Upon receipt, inspect your new ladder for shipping damage. Remove packaging carefully to preserve it for potential returns or claims. If damage is discovered, precisely document it on the bill of lading and contact the carrier immediately.

Features of all FLAD Models:

- Foldable design with spring-loaded detent pin for secure locking.
- Perforated 7-inch deep steps for non-slip grip.
- 58-degree climb angle for comfortable ascent.
- Wheels for easy tilting and transport when folded.
- Uniform capacity of 350 lb. across all models (do not exceed).

2. SPECIFICATIONS

Documents that provide specifications for FLAD series ladders are available online on Vestil's website. Specifications include dimensions, net weight, angle of inclination, and capacity information. Navigate to the FLAD webpage at <https://www.vestil.com/product.php?FID=619>. Scroll to the *Product Specifications Table* portion of the page. Find the entry for the hopper you purchased and click the button in the "PDF" column that looks like a pencil inside a blue-bordered box. A PDF file will open. This file is the specifications document. Print a copy of the document and keep it with your copy of this manual. The following is an exemplar specifications document for model FLAD-4. All dimensions and weights are approximate and subject to manufacturing tolerances ($\pm 1/4"$ (0.64 cm)).

FOLDABLE FOUR-STEP LADDER - FLAD-4

APPROX WEIGHT: 46.88 lbs.
DOES NOT INCLUDE WEIGHT OF POWER OR PACKAGING!!!

*** ANY ADDITIONS, DELETIONS, OR OMISSIONS MUST BE CORRECTED ON THIS DRAWING AS THIS DRAWING WILL BE CONSIDERED ALL INCLUSIVE ***

ALL GRAPHICS PROVIDED ARE FOR REFERENCE ONLY. IF CERTAIN DIMENSIONS ARE CRITICAL PLEASE VERIFY THOSE DIMENSIONS WITH YOUR SALESPERSON

18 5/8"

16 1/8"

23 3/4"

61 9/16"

39 7/8"

9 5/8"

9 5/8"

9 5/8"

11"

34 3/8"

7"

65 15/16"

14 1/8"

FOLDED VIEW

3D VIEW SHOWN FOR REFERENCE ONLY

DIMENSION TOLERANCE ± 1/4"

STANDARD FEATURES

MODEL NUMBER IS FLAD-4

OVERALL WIDTH IS 23 3/4"

USABLE WIDTH IS 18 5/8"

OVERALL DEPTH IS 34 3/8"

STEPS USABLE DEPTH IS 7"

OVERALL HEIGHT IS 61 9/16"

MAX CAPACITY IS 350 LBS.

Ø4" X 1-1/4" W POLY-ON POLY WHEELS

RUBBER STOP CRUTCH TIPS

58° CLIMB ANGLE

TOP STEP HEIGHT IS 39 7/8"

FOLDED DIMENSION IS 23 3/4"W X 14 1/8"D X 65 15/16"H

SPECIAL FEATURES

NONE

APPROVAL

I, THE UNDERSIGNED, AGREE THAT THE PRODUCT AS REPRESENTED SATISFIES DESIGN AND DIMENSION REQUIREMENTS. I ALSO ACKNOWLEDGE MY DUTY TO CONFIRM PRODUCT AND INSTALLATION COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AND STANDARDS.

ALL SPECIAL UNITS ARE NON-RETURNABLE

[] As drawn [] As marked

Signed: _____ Date: _____

LEAD TIME WILL START UPON RECEIPT OF SIGNED APPROVAL DRAWING

DISTRIBUTOR'S NAME: _____

VESTIL MANUFACTURING

DRAWN BY: ND DATE: 8/30/12

REFERENCE: X SCALE: 1:14

QUOTED LEAD TIME: X QUOTE # 44-007-354

P.O.# X

W.O.# X

SALES: X

FILE NAME: _____

The following table of FLAD specifications is provided for convenience. If any information presented in the table conflicts with your specifications document, rely on the document rather than the table.

Model	Material	Number of Steps	Top Step Height	Step Depth	Climb Angle	Uniform Capacity	Approximate Weight
FLAD-2	Carbon Steel	2	20 in.	7 in.	58°	350 lb.	34 lb.
FLAD-2-SS	Stainless Steel	2	20 in.	7 in.	58°	350 lb.	26 lb.
FLAD-3	Carbon Steel	3	30 in.	7 in.	58°	350 lb.	44 lb.
FLAD-3-SS	Stainless Steel	3	30 in.	7 in.	58°	350 lb.	39 lb.
FLAD-4	Carbon Steel	4	40 in.	7 in.	58°	350 lb.	126 lb.
FLAD-4-SS	Stainless Steel	4	40 in.	7 in.	58°	350 lb.	125 lb.

Notes: All dimensions are approximate and subject to minor variations. Weights are shipping estimates. Stainless steel models are constructed from 202-grade material for enhanced corrosion resistance.

Additional Specifications:

- Carbon steel units are finished with blue powder coat
- Wheels: 4 x 1-1/4 inch poly-on-poly casters

3. NATIONAL STANDARDS AND REGULATIONS

FLAD series folding ladders are classified as mobile ladder stands. This section identifies and summarizes the primary applicable regulatory and consensus standards. These determinations are based on the definitions, scopes, and requirements in the standards themselves, independent of any product-specific claims. Users must ensure ongoing compliance with these standards, as well as any local or industry-specific regulations.

A. ANSI/ASC A14.7: Safety Requirements for Mobile Ladder Stands and Mobile Ladder Stand Platforms

This American National Standard, developed by the American Ladder Institute (ALI) and accredited by ANSI, prescribes rules and minimum requirements for the design, construction, testing, care, use, and maintenance of mobile ladder stands and mobile ladder stand platforms. A mobile ladder stand is defined as a movable, fixed-height, self-supporting ladder consisting of wide flat treads (steps) providing access to a top step, often with handrails, intended for one person, and equipped with means for mobility (such as wheels or casters). The standard includes provisions for stability testing, load capacity, non-slip surfaces, step dimensions, slope limits, and labeling/markings. Compliance with this standard addresses key safety aspects such as structural integrity, stability on level surfaces, and proper use instructions.

B. OSHA 29 CFR 1910.23: Ladders (Including Mobile Ladder Stands and Mobile Ladder Stand Platforms)

This OSHA regulation, part of the Walking-Working Surfaces standard (29 CFR Part 1910, Subpart D), establishes general requirements for ladders and specific criteria for mobile ladder stands and mobile ladder stand platforms under paragraph (e). It defines a mobile ladder stand as a mobile, fixed-height self-supporting ladder usually consisting of wheels or casters on a rigid base with steps leading to a top step (may include handrails). Requirements include minimum step widths (at least 16 inches), uniform step spacing (rise ≤10 inches, depth ≥7 inches), slope limits (≤60 degrees from horizontal), handrail provisions for certain heights, stability (no movement when occupied), and general safe use practices (e.g., three points of contact, no overreaching, level surfaces only). Employers must ensure ladders meet these criteria.

C. Other Standards/Rules/Codes

- **ANSI A14.11: Safety Requirements for Stepstools** — Applies to self-supporting portable climbing devices 36 inches or less in height (various materials). The FLAD series exceeds this height range in most models and includes mobility features inconsistent with standard stepstool scope.
- Additional standards may apply in specific contexts (e.g., state OSHA plans like Cal/OSHA; NFPA for certain environments). Contact your state Occupational Safety and Health department to determine whether your state applies additional rules to the use of FLAD-type ladders.

4. SIGNAL WORDS

SIGNAL WORDS in this manual draw the reader's attention to important safety-related messages.

 DANGER	Identifies a hazardous situation which, if not avoided, <u>WILL</u> 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.

5. SAFETY INSTRUCTIONS

Read and understand the entire manual before using or servicing the ladder. Read the manual to refresh your understanding of proper use and maintenance procedures whenever necessary. Keep this manual in a location known to, and accessible by, all ladder users.

DANGER

- Electrocution hazard. Do not install or use the ladder near overhead electrical wires or in environments where contact with energized conductors is possible.

WARNING

- Only climb the ladder when it is in the fully extended/lowered position.
- Do not exceed the 350-pound uniform capacity. Overloading could cause structural failure. The total weight applied to the ladder (weight of the user plus tools, etc.) must not be greater than the capacity. Capacity is provided on your *SPECIFICATIONS* document as well as on label 1153. See [LABELING AND MARKINGS](#) section on p. 8.
- ALWAYS face the stairs and use the handrails while ascending and descending the ladder. Maintain three points of contact (two hands and one foot, or two feet and one hand).
- Only stand on the steps. DO NOT climb onto the railing. DO NOT slide on the railing. DO NOT increase the height of any step by standing on other objects placed on the ladder.
- Do not use on uneven or slippery floors. Use only on stable, level surfaces
- Inspect ladder as directed in [INSPECTING AND MAINTAINING THE LADDER](#) on p. 7. DO NOT use the ladder until a [PRE-USE INSPECTION](#) has been performed. See [Section 9A](#) on p. 6.
- Do not modify the ladder. Modifications void the *limited warranty* and might create hazards.
- DO NOT use the ladder if any instability or unusual noise or movement is observed while weight is applied to it. Immediately discontinue use and tag the ladder out of service.
- **DO NOT use this ladder unless you are in good health. NEVER use the ladder while under the influence of alcohol or drugs, including prescription medication that affects balance, perception, or judgment.**
- Wear appropriate footwear. DO NOT wear high-heeled shoes or footwear with smooth soles.
- Keep the area around the ladder clear.
- Do not place items on steps where they could cause a hazard during use.
- DO NOT use the ladder for any purpose other than climbing
- Remove foreign matter, e.g. mud, from your shoes before walking on the ladder. Only wear slip-resistant shoes.
- Do not overreach; keep your body centered between the siderails.
- DO NOT skip steps. Climb the ladder one step at a time.
- Do not use the ladder in front of unlocked or unsecured doors.
- Only stand on the steps. DO NOT climb onto the railing. DO NOT slide on the railing.
- DO NOT remove or obscure any label, tag, or sign applied to the ladder. All labels, tags, and signs must be easily readable. See [LABELING AND MARKINGS](#) on p. 8.
- Do not climb with tools or materials that could cause imbalance.

NOTICE

- Keep the ladder clean & dry. Periodically lubricate pivot points.
- Do not use the ladder in wet or corrosive environments.

6. RECORD OF SATISFACTORY CONDITION

Before initial use and as part of ongoing inspections, establish and maintain a **Record of Satisfactory Condition** for this ladder. This record serves as the baseline reference for all future inspections to determine whether the unit remains safe for use.

1. Upon receipt and after any assembly (if applicable), perform a thorough visual and functional inspection.
2. Document the condition of all major components when the ladder is known to be in good, undamaged condition. Include photographs of the ladder from multiple angles (front, side, rear, top, folded, and unfolded views) taken at the time of initial receipt and inspection.
3. Record the date, inspector name, model number, serial number (if available), and any observations.
4. Compare the results of each subsequent inspection (before each use and at least every 3 months) to this initial Record of Satisfactory Condition.
5. Do not use the ladder unless **every part** is in satisfactory condition as defined by this record and the inspection criteria in the Maintenance Guidelines section.
6. If any component shows signs of damage, wear, deformation, corrosion, or malfunction that deviates from the initial satisfactory condition, remove the ladder from service immediately, tag it as "Out of Service," and repair or replace parts before further use.

RECOMMENDED INITIAL RECORD ENTRIES

Complete this record upon delivery of the ladder. Retain this record with the ladder or in a designated file. Update it only if major repairs restore the unit to original satisfactory condition (document repairs separately).

Date of Inspection: _____

Inspector Name: _____

Model Number: _____

Serial Number (if provided): _____

Condition Summary:

- Welds: Intact, no cracks or deformation _____
- Steps: Perforated surfaces clean, no deformation or missing sections

- Rails/Siderails: Straight, no bends or damage _____
- Detent Pin Mechanism: Operates smoothly, locks securely with steps in open and closed positions _____
- Wheels: Intact, rotate freely, no excessive wear _____
- Rubber Stop Crutch Tips: Present, secure, no cracking _____
- Fasteners: All present, tight, no loosening _____
- Overall Finish: No significant corrosion (steel models) or surface damage

- Photographs Attached: Yes / No (attach or reference file/location)

Additional Notes:

Retain this record with the ladder or in a designated file in a location known to and accessible by designated inspection personnel.

7. USER QUALIFICATIONS AND TRAINING

All users of the FLAD series ladders must be qualified and trained to ensure safe operation. Employers are responsible for providing training in accordance with OSHA 29 CFR 1910.30 (Training Requirements for Walking-Working Surfaces).

Recommendations

- Users must be physically capable of safely climbing and descending the ladder, including maintaining balance and three points of contact.
- Do not use the ladder if you are tired, subject to fainting spells, under the influence of medication, alcohol, or drugs, or otherwise physically impaired.
- Wear appropriate slip-resistant footwear. Clean shoes of grease, mud, or other slippery substances before use.

Training Requirements

- Each user of this ladder must read and understand this entire manual and all labels applied to the ladder before using, inspecting, or maintaining the ladder for the first time.
- Training must cover: recognition of fall hazards, proper setup and use, maintenance and inspection procedures, load capacity limits, and emergency response.
- Retrain users if there are changes in the workplace, or observed unsafe practices.
- Document training. Include dates, topics covered, and trainee identities.

8. ASSEMBLING THE LADDER

FLAD series ladders are shipped fully assembled and ready for use. No assembly is required. However, you should visually inspect your ladder upon unpacking it to confirm all components are intact.

9. USING THE LADDER

A. Pre-Use Inspection Checklist

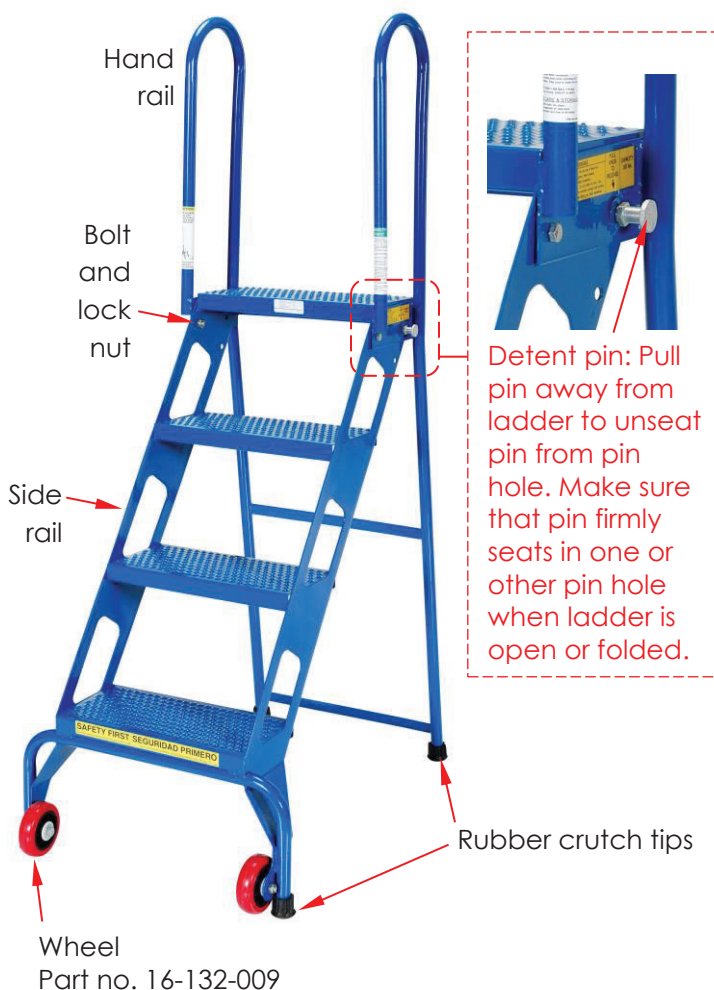
Use this checklist at the beginning of each day of use. Compare observations with your [RECORD](#).

Document results:

- Steps: No deformation, perforations clear of debris.
- Rails/Siderails: Straight, no bends or cracks.
- Welds: Intact, no cracks.
- Fasteners: Tight, none missing or loose.
- Detent Pin: Operates smoothly. Spring automatically biases pin to lock securely.
- Wheels: Rotate freely, no damage.
- Rubber Crutch Tips: Secure, no wear.
- Labels: All present, easily legible, and undamaged.

B. Unfolding and Setup

1. The ladder arrives in the open, unfolded position as shown in the diagram.
2. Place the ladder on a flat, stable surface.
3. Ensure the spring-loaded detent pin is securely locked in the open position. There are 2 pin holes in the side rail. The detent pin must seat into one or the other in order to secure the ladder in either the open or folded configuration.



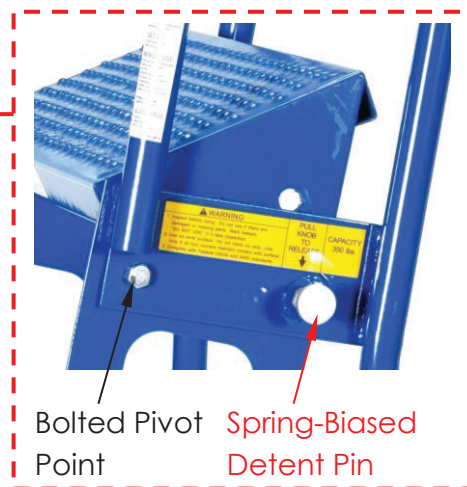
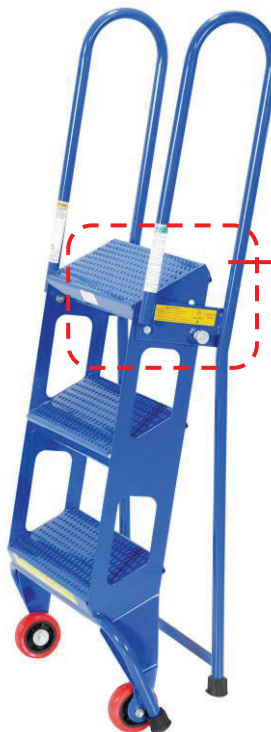
4. Verify that all four rubber stop crutch tips (on the legs) solidly contact with the ground to ensure ladder stability.

C. Climbing the Steps

1. Position the ladder at the desired location.
2. Ascend and descend the ladder facing the steps while maintaining three points of contact.
3. Do not stand on the top step unless necessary. Never exceed the capacity.

D. Folding and Storing the Ladder

1. Pull the spring-biased detent pin to release the locking mechanism.
2. Fold the steps toward the back of the ladder.
3. Release the detent pin and make sure that it seats into the appropriate pin hole. Seating is necessary for the steps to lock in the closed position.
4. Face the steps and grasp the handrails. Tilt the folded ladder back onto its wheels for transport.
5. Store in a dry, secure location to prevent damage.



10. INSPECTING AND MAINTAINING THE LADDER

Regular maintenance ensures longevity of the ladder as well as its safe operation.

Inspect the ladder as directed in the [Pre-Use Inspection Checklist](#), part 9A, on p 6.

- Clean the ladder with mild soap and water; dry thoroughly. For stainless steel models, use non-abrasive cleaners to avoid scratching.
- Pivot points: Lubricate pivot points (e.g., bolted connections that attach the steps to the top of the ladder) periodically with light machine oil.
- Replace worn or damaged parts immediately using only Vestil-approved replacements. Call the [TECHNICAL SERVICE DEPT.](#) to order replacement parts. Contact information is provided on the cover page of this manual.
- Powdercoat: If corrosion is detected, remove it and apply a protective coating, i.e. touchup paint.
- Fasteners: Tighten all fasteners during inspections. Anytime a lock nut is removed, it must be replaced with a new lock nut.
- Rubber crutch feet: Replace rubber crutch feet if cracked, torn, or worn. Leg bottoms must not cut through the crutch tips.

Do not use the ladder until maintenance issues are resolved. Compare all inspection results to your [RECORD OF SATISFACTORY CONDITION](#). If the ladder cannot be restored to satisfactory condition, remove it from service and destroy it to prevent unauthorized use.

- Overall: No corrosion, unusual noise, or instability.

11. TROUBLESHOOTING

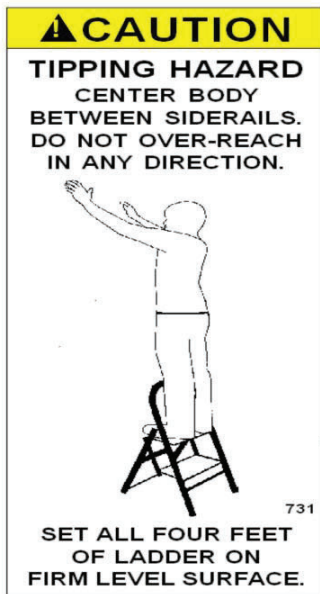
Issue	Possible Cause	Resolution
Ladder won't fold/unfold	Detent pin stuck or damaged	Clean and lubricate; replace if needed.
Instability during use	Uneven surface or damaged legs	Reposition on level ground; inspect and repair legs/tips.
Unusual noise	Loose fasteners or worn wheels	Tighten fasteners; replace wheels.
Slippery steps	Dirt/debris on perforated steps	Clean steps thoroughly.

If issues persist, or if your ladder presents issues not addressed in the table, contact Vestil's [Technical Service](#) department.

12. LABELING AND MARKINGS

The FLAD series ladders are equipped with labels and markings as required by ANSI A14.7. These provide critical safety information and must remain in place, legible, and intact.

- **Location of Labels:** Labels are affixed to the siderails, steps, and other visible areas.
- **Maintenance of Labels:** Inspect labels during every pre-use check. Do not remove, deface, or cover labels. If labels become difficult to read or illegible, damaged, or missing, discontinue use of the ladder and contact Vestil for replacements. Return the ladder to service only after all replacement labels have been applied.
- **Replacement:** Use only manufacturer-approved labels. Failure to maintain labels may result in non-compliance with standards and increased risk.



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904

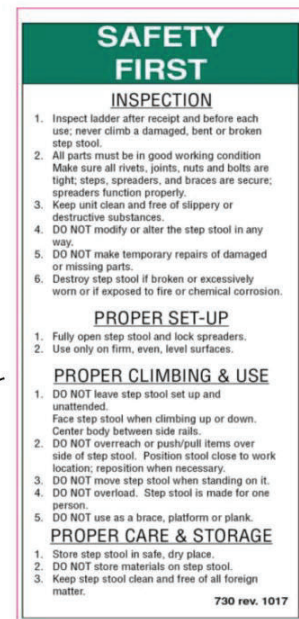
MODEL / MODÉLO / MODÈLE _____
 WEIGHT / PESO / MASS _____
 CAPACITY / CAPACIDAD / CAPACITÉ _____
 SERIAL / SERIE / SÉRIE _____

UNITS: 2.2 lb. = 1kg 1" (or 1in.) = 2.54cm

1153



821



730

Combined WARNING,
 capacity, and detent pin
 label

FOLDING LADDER WITH WHEELS

6-1-2022

13. LIMITED WARRANTY

Vestil Manufacturing Company("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
Vestil Manufacturing Company
2999 North Wayne Street, PO Box 507
Angola, IN 46703

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

Email
info@vestil.com
Enter "Warranty service request"
in the 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 Co. 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.

