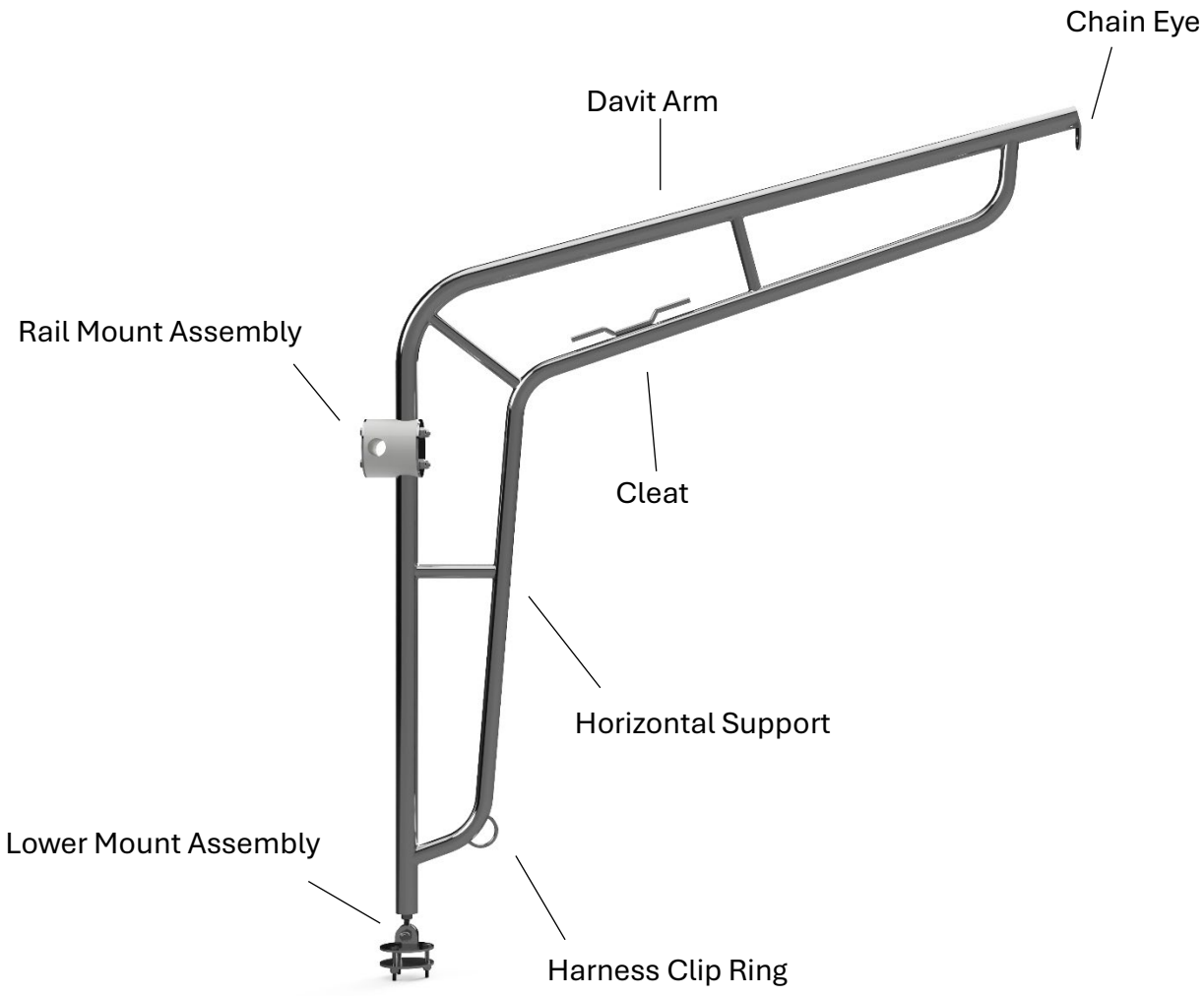
MD Series Installation Instructions



Required Materials (not included)

- Safety glasses and rubber gloves
- Electric Drill, ¼ and 5/16 drill bits
- 7/16 socket and ratchet
- 7/16 wrench
- Level
- Measuring tape
- Masking tape
- Pencil
- Marine adhesive/sealant
- Clean rags

Prior to Installation Notes and Critical Safety Warnings

1. Load Carrying Capacity

The maximum load includes the combined weight of the dinghy, outboard motor, fuel tank, and all gear.

- **MD-370 Davit Set**: 370 lbs total capacity (**185 lbs** max per arm).
- **MD-600(EXT) Davit Set**: 600 lbs total capacity (**300 lbs** max per arm).

2. Davit Arm Placement

- **Alignment:** Mount davit arms within +/- **6 inches** of the dinghy's bow and stern lift points.
- **Orientation:** Ensure arms are as close to **vertical** as possible in all directions (fore, aft, and side-to-side) to minimize horizontal stress.
- **Placement Guidelines:** The davit arm is designed for installation on **transverse (port-to-starboard)** stern rails. For **longitudinal (fore-and-aft, such as the sides of a stern rail seat)** rail installations, supplemental reinforcement is required. Please consult Martek for approved support solutions.

3. Rail Mounts (Upper Support)

- **Positioning:** Secure the rail mount to the **upper half** of the davit arm, above the uppermost horizontal support brace.
- **Tension:** Tighten only until the davit is held firmly against the stern rail. **Do not over-tighten**, as this can damage the rail blocks.
- **Stability:** If your stern rail flexes under the weight of the dinghy, you must install additional rail support.

4. Lower Mounts (Base Support)

- **Versatility:** The base can be installed on horizontal, vertical, or angled surfaces (e.g., transom, deck, cap, or toe rail).
- **Access:** Before drilling, ensure you have clear access to the underside/backside of the mounting surface to install backing plates.

5. Backing Plates & Fasteners

- **Included Hardware:** Use only the provided backing plates, hex-head bolts, and nylon-insert locknuts.
- ⚠ **CRITICAL SAFETY WARNING: Never use screws** in place of the provided bolts. Screws cannot support the load and **will lead to system failure**.

6. Dinghy Lifting Points

- **Critical Lifting Points:** Proper placement of lifting points is essential for the safety and structural integrity of your inflatable. All points must be positioned low and on the inside of the boat.
- **STERN:** You have two rigging options. For a traditional sling setup, use the existing lift points or install new ones low on the transom's interior. Alternatively, you can use the Martek Davits Lifting Yoke to eliminate the need for slings and eyebolts; this is the recommended method.
- **BOW:** Lifting points must be located inside the boat, approximately 3 feet back from the bow where the tube begins to curve. You can use the Martek Davits Strongback as an alternative to a sling.
- ⚠ **WARNING:** Never lift the boat using removable floorboards or the exterior "D" rings.

7. ⚠ WARNING

Restraining your Dinghy

The dinghy must not be allowed to move around while underway. The dinghy should be restrained so it cannot swing or move on its own. Excessive dinghy movement can cause excessive pressure at the attachment points, **leading to failure.**

- When lifted, the dinghy must contact both Davit Arms. The dinghy should be level.
- The dinghy must be restrained; it cannot be allowed to swing free.
    - **Use the lifting lines:**
        - Stern - Loop around the inflatable tube at the stern, pull tight, and secure it to a cleat. Do this several times to form a belt.
        - Bow – Run a loop through the towing ring on the outside of the hull, pull tight, and secure it to a cleat.
    - **Use ratcheting straps:**
        - Stern – Clip onto the eyebolt on the outside of the dinghy transom, and the other end clips onto the stern rail mount eye nut, tighten using the ratchet.
        - Bow – Clip to the towing ring on the outside of the hull, and the other end clips onto the stern rail mount eye nut, tighten using the ratchet.
- The stabilizer strut prevents the davit arms from rotating; it does not prevent the dinghy from swinging or moving.

8. ⚠ WARNING

Rough Seas

Davits are intended for carrying a tender in harbor, sheltered and coastal conditions. Remove the dinghy/tender and stow it on deck before offshore passages, when seas exceed approximately 4 ft (1.2 m), in steep or following seas, or when waves could reach the tender. Always remove the outboard motor and secure the dinghy/tender with tie-downs to prevent swinging. Do not tow the tender in rough conditions.

9. ⚠ WARNING

Remove the Drain Plug

Remove the drain plug as soon as you lift the dinghy out of the water, always! Water weighs approximately 7 lbs. per gallon, and there are 7.5 gallons per cubic foot. A typical dinghy will hold approximately 26 cubic feet of water. That is an additional 1,345 lbs., **leading to failure.**

10. ⚠ WARNING

Stern rail movement can cause failure.

Davits put heavy loads into the stern rail, and in a seaway, those loads can be several times the dinghy/tender's weight. If the stern rail can move fore-and-aft or side-to-side, the stern rail or davits can fail, or the dinghy/tender can shift suddenly under load.

Check your stern rail for movement before installation. If it moves, you must install support arms (diagonal braces) from the rail to the deck. Contact us to discuss bracing for your boat.

Before loading the davits:

- Install support arms (diagonal braces) to stop fore-and-aft and side-to-side movement at the stern rail. Split stern rails may need additional bracing.
- Install the cross-tie (stabilizer strut) to stop side-to-side movement at the davits.
- Tighten all clamps, fasteners and deck bases.
- **Test for movement**: push and pull firmly on each davit arm, fore-and-aft and side-to-side. You should see no visible movement in the arm or the stern rail.
- If anything moves, do not use the davits. Add diagonal bracing to reinforce the stern rail.

11. ⚠ WARNING

STRUCTURAL FAILURE HAZARD: Lower Mount Rod End Bolt

Never use the lower mount rod end bolt for vertical height adjustment. Improper installation can cause bolt failure, leading to equipment collapse.

Required Installation Procedure

- **Insert Fully**: Thread the bolt into the davit arm as far as possible.
- **Secure Locknut**: Tighten the jam nut securely against the arm.
- **Thread Exposure**: Ensure a maximum of one to two threads are visible on the rod end bolt.

12. Bonding

It is recommended that the davits be connected to the boat's electrical bonding system.

- Safety (Grounding): Reduces shock hazard by connecting metal parts, allowing breakers to trip during a fault.
- Lightning Protection: Offers a path for high-voltage lightning strikes to enter the water.

Installation:

A. Determine a suitable mounting location for the rail mount on the stern rail and the lower mount on the toe or cap rail, the deck, or the transom. Consider proximity to stanchions and other interferences.
B. Temporarily secure the lower mount to the Davit arm with masking tape. Remove the backing plate and fasteners.
C. Install the rail mount on the davit arm (upper half) and the stern rail. Do not tighten fasteners so the davit arm can slide on the stern rail.
D. Check that the davit arm is vertical, fore, aft, and side to side.
E. Where the lower mount base plate intersects the cap or toe rail, transom, or deck, cover the surface with masking tape and mark the hole positions
F. Drill the mounting holes. To ensure the backing plate fits, drill holes as perpendicular as possible. Seal any exposed core to prevent water absorption. Test-fit to ensure the base plate, backing plate, and fasteners align.
G. Remove all masking tape and prepare surfaces per the selected sealant instructions.
H. Insert the lower mount into the Davit arm. **See section 11 Warning**
I. Bed the entire base plate mounting surface so a small amount of sealant is squeezed from all sides as fasteners are tightened. Install the backing plate and tighten all fasteners. Clean any excess sealant to leave a smooth joint between the base plate and the mounting surface.
J. Tighten the rail mount fasteners; do not overtighten.
K. Stabilizer Strut **-** Temporarily place the stabilizer strut across the davit arms. Mark the hole positions top and bottom. Remove the stabilizer strut and drill through the marked positions. Install the stabilizer strut and tighten all fasteners.
L. Wipe down metal surfaces using a stainless-steel polish/protectant.

Care and Maintenance

- With proper care, your davits will last and look new for a lifetime. Polished stainless steel will develop surface rust if neglected, especially in a marine environment. Periodically clean with soap and water and dry with a soft cloth. After cleaning, polish with a product like Flitz Metal Polish to remove oxidation, rust, and water stains, and provide a protective film.
- Check lifting lines, blocks, slings, etc., for fraying and wear. Replace as necessary.

Limited Warranty and Installation

Martek provides a limited warranty – see below.

To validate and activate the 2-year parts warranty, the installer must capture and submit exactly three (3) photographs:

- Port view of the installation
- Starboard view of the installation
- Aft view of the installation

Email these photos to **admin@martekdavits.com** for evaluation. All photos must be received within ninety (90) days of the original purchase date. Failure to submit these views will void the warranty.

Warranty Claim Procedure
In the event of a defect in parts within the 2-year warranty period, you must submit a formal claim.

To initiate a claim, email **admin@martekdavits.com** with the following information:

- **Proof of purchase** showing the original purchase date
- **Detailed description** of the alleged defect
- **Clear photographs** documenting the specific issue

Martek will review the claim against the original installation photographs on file. Martek reserves the right to inspect the physical hardware before authorizing any repair or replacement.

Martek Davits Limited Warranty (Parts Only)

Coverage

Martek Davits ("Martek") warrants to the original retail purchaser that each new Martek davit, arch, mount, and related component (the "Product") will be free from defects in materials and workmanship under normal recreational use for [two (2)] years from the date of original retail purchase (the "Warranty Period").

This warranty covers parts only, as described below.
It applies only to Products bought new from Martek or an authorized Martek dealer.
It is not transferable to later owners of the Product or the vessel.
Parts replaced under this warranty are covered only for the remainder of the original Warranty Period.
Parts-only remedy
If a covered defect is confirmed, Martek will, at its sole option, repair the defective part, replace it with a new or remanufactured part of equal function, or refund the price paid for that part. This is the purchaser's sole and exclusive remedy.

This warranty does not cover:

Labor of any kind, including removal, reinstallation, fitting, welding or adjustment
Haul-out, yard, storage, rigging or crane charges
Travel time, mileage or service-call charges
Shipping, freight, duties or handling to or from Martek (return shipping of replacement parts within the [continental United States] is paid by Martek)
Sealants, fasteners and backing materials supplied by others
Loss of use of the vessel, tender or equipment
Exclusions
This warranty is void, or does not apply, where damage or failure results from:

Installation not in accordance with Martek's written instructions, or by anyone other than Martek or a qualified marine installer
Inadequate mounting structure, deck core, backing plates or fasteners on the vessel
Loads above Martek's published ratings, including tenders, motors, gear, people, or dynamic loads from carrying a tender in rough water or offshore
Misuse, neglect, accident, collision, grounding, storm, fire or acts of nature
Modification, cutting, welding or drilling of the Product, or use of non-Martek parts

Lack of routine maintenance, including tea staining, crevice or galvanic corrosion from failure to clean, isolate dissimilar metals or maintain bonding
Normal wear and tear of lines, blocks, sheaves, bushings, webbing, covers and other wear items
Commercial, charter or rental use, unless approved by Martek in writing
Cosmetic conditions that do not affect function
How to make a claim
Claims must be made within the Warranty Period and within [30] days of discovering the defect.

Contact Martek at admin@martekdavits.com before removing or returning any part.
Provide proof of purchase, the Product model, the vessel make and model, and a description of the problem.
Send clear photos of the defect and of the installation, including the mounting points.
If requested, return the part with the Return Authorization (RA) number Martek issues, shipped to Martek's address. Parts returned without an RA number may be refused.
Martek will inspect the part and decide whether the defect is covered. Martek's coverage decision is final.
Disclaimers and limitation of liability
THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. ANY IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD.

IN NO EVENT WILL MARTEK BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGE TO THE VESSEL, TENDER, MOTOR OR OTHER PROPERTY, OR LOSS OF USE. MARTEK'S TOTAL LIABILITY WILL NOT EXCEED THE PRICE PAID FOR THE DEFECTIVE PART.

No dealer, installer or employee may change or extend this warranty. This statement is the complete warranty for the Product and is governed by the laws of the State of Florida.