



Alumi-Lite Davit Crane Specifications

Portable aerospace-grade aluminum davit crane with hand or electric winch

OZA1000DAV – 1000 lb. capacity

Technical Specifications

Manufacturer:	OZ Lifting Products
Load Capacity:	550 lb. (249.48 kg.) to 1000 lb. (453.59 kg.)
Hook Reach:	22.62 in. (575mm) to 41.83 in. (1062mm)
Hook Height:	43.02 in. (1093mm) to 70.45 in. (1790mm) maximum, dependent upon base selection
Safety Factor:	2:7 for all components in all positions

1. FUNCTIONALITY

- A. Manufacturer: Davit crane shall be of domestic manufacture, as manufactured by OZ Lifting Products, OZA1000DAV.
- B. Load Capacity: Davit crane shall have a load capacity which varies based on boom position. Davit crane load capacity shall be 550 lb. (249.48 kg.) at horizontal, 650 lb. (294.84 kg.) at +22.5° and 1000 lb. (453.59 kg.) at 45° boom positions.
- C. Design Factor: Davit crane shall be designed with an ultimate design factor exceeding 2:7 for all components, in all boom positions.
- D. Proof Testing: Davit crane shall be individually proof tested by manufacturer to 125% of rated load.
- E. Hook Reach: Davit crane shall have a fixed boom allowing hook reach of 42 in. when the boom is horizontal, measured from mast centerline to hook centerline.
- F. Height Adjustments: Davit crane boom shall have three points of height adjustment, horizontal, +22.5 degrees and +45 degrees above horizontal.
- G. Boom Sheave: Davit crane shall have a sheave at the end of the boom that the cable shall pass over.
- H. Height Clearance: When used with a socket base, davit crane shall have a minimum clearance of 37.25 in. (946mm) between the mounting surface and underside of boom. When used with a pedestal base, davit crane shall have a minimum clearance of 50.50 in. (1283mm) between the mounting surface and underside of boom. When used with a wall base, davit crane shall have a minimum clearance of 36.50 in. (927mm) between the mounting surface and underside of boom. When used with a wheel base, davit crane shall have a minimum clearance of 60.69 in. (1529mm) between the ground level and underside of boom.
- I. Rotation: Davit crane shall freely rotate 360 degrees in mounting base.
- J. Pins: Davit crane components shall be assembled using clevis-style pins made from RoHS-compliant, corrosion-resistant, zinc-plated alloy steel.
- K. Portability: Davit crane shall have the ability to be completely assembled and disassembled without tools, with a total weight not to exceed 50 lb. (22.68 kg.), exclusive of winch and cable.
- L. Winch mounting: Davit crane shall have a dedicated winch mounting surface located on the top of the boom to accept either a manual or electric winch.
- M. ID Tag: Davit crane shall be labeled with a non-corrosive identification plate made from metalized polyester with permanent industrial adhesive, attached, and labeled or imprinted to include manufacturer's name, serial number, model number, load capacity, contact information, and other pertinent information.

2. BASES

- A. Manufacturer: Davit crane bases shall be of domestic manufacture, as manufactured by OZ Lifting Products, OZPED1-TP, OZSOC1-TP, OZWALL1-TP, OZWB1-TP, and OZBACK1.
- B. Base Style: Davit crane shall utilize purpose-built pedestal, socket, wall-mount, and wheel bases, and

backing plate, not those of universal design. (OZPED1-TP, OZSOC1-TP, OZWALL1-TP, OZWB1-TP, and OZBACK1)

- C. Davit crane bases shall be finished with RoHS-compliant corrosion-resistant, exterior-grade powder coat.
- D. Usage: Bases shall allow davit crane mast to be installed and removed easily, with no tools.
- E. Bearing surfaces: Base shall have a Nylatron plastic bushing sleeve, while also having a puck at the bottom to positively engage and support mast rotation.

3. FINISH

- A. Materials: Davit crane shall be domestically made from high-strength aluminum. Bases and pins shall be domestically made from steel meeting ASTM standards. Pins shall be made from steel.
- B. Finish: Davit crane shall have powdercoat finish. Bases shall be RoHS-compliant, corrosion-resistant powder-coated. Pins shall be finished in corrosion-resistant zinc-plated finish.

4. WINCHES

- A. Manual Winch: Winch shall be of the brake winch type, utilizing a Weston style load holding brake, a quick-disconnect removable handle, bronze bearings, and available drill-driven option.
- B. Winch Capacity: Load capacity of the winch to be appropriately sized to match that of the davit crane.
- C. Finish: Winch shall have zinc-plated and/or powder-coated parts.
- D. Wire Rope Attachment: Winch shall facilitate wire rope attachment via either a standard cable anchor clamp, or a ball swaged cable end fitting.

5. ACCESSORIES

- A. Headache Ball: To apply tension to wire rope when not under load. Compatible with 3/16" and 1/4" wire rope. (OZHB10)
- B. Mast Extension: Adds 24 in. (610mm) of additional height to davit crane. Made of high-strength steel, powder coated, and easy to install. (OZEXT1-TP)
- C. Davit Crane Protective Cover: Used to protect davit crane from the elements. Waterproof, with zippered back with Velcro latch, and cinched mast closer. Outer layer is made from 100% polyester woven mesh, PVC coated. Inner layer is made from 100% woven oxford, PVC backing. Dimensions are 28 in. (711mm) long and 26 in. (660mm) tall. (OZDAV-C1)
- D. Davit Crane Roller Bag: Transport and protect davit crane with this durable roller bag. Made from heavy-duty nylon, featuring a padded interior, reinforced straps, and roller wheels. (OZRB1)
- E. Winch Cover: Used to protect AC and DC electric winches. Water-resistant vinyl with drawstring closure keeps winch clean and dry. Specially treated for cold weather use. Dimensions are 11 in. (279mm) long, 8 in. (203mm) wide, and 7.25 in. (184mm) tall. (OZECW)
- F. Wire Rope Holder: Secure davit crane's swaged ball end fitting wire rope to be inserted into the slot on the wire rope holder to allow wire rope to remain in place. Wire rope holder made from steel and powder coated for long-lasting durability. (OZWRH)
- G. Drill Drive Adapter: Convert a manual winch to a powered lifting solution with any electric drill using this drill drive adapter. (OZWINDDA1 - Drill Drive Adapter for OZWINHND1 carbon steel brake winch, OZWINDDA2 - Drill Drive Adapter for OZWINHND2 carbon steel brake winch)
- H. Wheel Base: Allows for mobility of davit cranes and 360-degree rotation once anchored to a suitable floor. The Wheel Base shall extend from 56.50 in. (1435mm) to 77.50 in. (1969mm) in length and be 32.44 in. (824mm) in width. The Wheel Base shall have a usable crane reach of under 62.50 in. (1588mm) from mast centerline. The inside width of the Wheel Base shall be 23.94 in. (608mm). The Wheel Base shall be finished with a corrosion-resistant powder coating. The Wheel Base shall be domestically made from steel meeting ASTM standards (OZWB)