



## **Steel Davit Crane Specifications**

### **All-steel davit crane with hand or electric winch**

#### **OZ1000DAV – 1000 lb. capacity**

#### **Technical Specifications**

Manufacturer:	OZ Lifting Products
Load Capacity:	1000 lb. (453.59 kg.)
Hook Reach:	28.09 in. (714mm) to 42.27 in. (1074), dependent on boom position
Hook Height:	37.29 in. (947mm) to 64.77 in. (1645mm) maximum, dependent upon base selection
Safety Factor:	3:1 for all components in all positions

#### **1. FUNCTIONALITY**

- A. Manufacturer: Davit crane shall be of domestic manufacture, as manufactured by OZ Lifting Products, OZ1000DAV.
- B. Load Capacity: Davit crane shall have a load capacity of 1000 lb. (453.59 kg.) at all boom positions.
- C. Design Factor: Davit crane shall be designed with an ultimate design factor exceeding 3:1 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. Davit crane shall have a fixed boom allowing hook reach of 42 in. (1067mm) when the boom is horizontal, measured from mast centerline to hook centerline.
- F. Height Adjustments: Davit crane boom shall have four points of height adjustment, the first at horizontal followed by +15 degrees, +30 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 30.63 in. (778mm) between the mounting surface and underside of boom. When used with a pedestal base, davit crane shall have a minimum clearance of 45 in. (1143mm) between the mounting surface and underside of boom. When used with a wall base, davit crane shall have a minimum clearance of 29.88 in. (759mm) between the mounting surface and underside of boom. When used with a wheel base, davit crane shall have a minimum clearance of 55.19 in. (1402mm) between the ground level and underside of boom.
- I. Rotation: Davit crane shall freely rotate 360 degrees in mounting base, with included handle to aid in rotation.
- 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 65 lb. (29.48 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, OZPED2, OZSOC2, OZWALL2, OZWB2, and OZBACK2.
- B. Base Style: Davit crane shall utilize purpose-built pedestal, socket, wall-mount, wheel bases, and backing plate, not those of universal design. (OZPED2, OZSOC2, OZWALL2, OZWB2, and OZBACK2)

- 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 steel meeting ASTM standards. Bases and pins shall be domestically made from steel meeting ASTM standards. Pins shall be made from steel.
- B. Finish: Davit crane shall be finished in a RoHS-compliant, corrosion-resistant powder coat. 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. (OZEXT2)
- 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. Locking Collar: Keep davit crane secure and prevent accidental rotation with this durable and easy-to-use locking collar.
- G. 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)
- H. Drill Drive Adapter: Convert a manual winch to a powered lifting solution with any electric drill using this drill drive adapter.
- G. 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)