



Stainless Steel Davit Crane Specifications

All-stainless steel davit crane with hand or electric winch

OZSS850DAV – 850 lb. capacity

Technical Specifications

Manufacturer:	OZ Lifting Products
Load Capacity:	850 lb. (386 kg.)
Hook Reach:	24.40 in. (620mm) to 42.00 in. (1066mm), dependent on boom position
Hook Height:	52.40 in. (1331mm) to 66.80 in. (1696mm) maximum, dependent upon base selection
Safety Factor:	2.5:1 for all components in all positions

1. FUNCTIONALITY

- A. Manufacturer: Davit crane shall be of domestic manufacture, as manufactured by OZ Lifting Products, OZSS850DAV.
- B. Load Capacity: Davit crane shall have a load capacity of 850 lb. (385.55 kg.) at the highest boom position. Capacity reduces at lower boom positions.
- C. Design Factor: Davit crane shall be designed with an ultimate design factor exceeding 2.5:1 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. (1066mm) 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 31.00 in. (787mm) between the mounting surface and underside of boom. When used with a pedestal base, davit crane shall have a minimum clearance of 45.00 in. (1143mm) between the mounting surface and underside of boom. When used with a wall base, davit crane shall have a minimum clearance of 32.00 in. (813mm) between the mounting surface 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 304 stainless steel.
- K. Portability: Davit crane shall have the ability to be completely assembled and disassembled without tools, with a total weight not to exceed 64.00 lb. (29 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 provided with a permanent, non-corrosive identification tag manufactured from 0.018" thick stainless steel type 316, chemically etched and black-filled for maximum durability and legibility. The tag shall be securely attached with permanent adhesive and shall clearly display the manufacturer's name, serial number, model number, rated load capacity, manufacturer 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-SS, OZSOC2-SS, OZWALL2-SS, OZBACK2-SS, and OZEXT2-SS.
- B. Base Style: Davit crane shall utilize purpose-built pedestal, socket, wall-mount, back plate, and mast extension, not those of universal design. (OZPED2-SS, OZSOC2-SS, OZWALL2-SS, OZBACK2-SS, and

OZEXT2-SS)

- C. Usage: Bases shall allow davit crane mast to be installed and removed easily, with no tools.
- D. Bearing surfaces: Base shall have a Nylatron plastic bushing sleeve, a UHMW-PE bearing surface, and a stainless steel puck at the bottom to positively engage and support mast rotation.

3. FINISH

- A. Materials: Davit crane shall be domestically made from 304 stainless steel meeting ASTM standards. Bases and pins shall be domestically made from 304 stainless steel meeting ASTM standards.
- B. Finish: Davit crane, bases, and pins shall be #4 brushed with ASTM B912 electropolished finish.

4. WINCHES

- A. Manual Winch: Winch shall be of the brake winch type, utilizing a Weston-style load-holding brake, removable handle, and bronze bearings. (OZ1500BWSS)
 - i. Winch Capacity: Load capacity of the winch to be appropriately sized to match that of the davit crane.
 - ii. Finish: Winch shall be raw stainless steel.
- B. Electric Winch: Winch shall incorporate both mechanical friction type and dynamic motor braking systems, be fully enclosed for protection from environmental factors, and incorporate an emergency handle. Winch is available in both 12V DC and 115V AC configurations.
- C. 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-SS)
- B. 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)
- C. 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)
- D. 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)
- E. Locking Collar: Keep davit crane secure and prevent accidental rotation with this durable and easy-to-use locking collar. (OZ100022)
- 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 stainless steel for long-lasting durability. (OZWRH-SS)
- 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 (OZWB2)