

Specification for

Two tonne general purpose davits

UDC 629.125.65 * 2t

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Foreword

This British Standard has been prepared under the authority of the Shipbuilding and Marine Industry Standards Committee and is based on a proposal of the British Ship Research Association.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Amendments issued since publication

Amd. No.	Date of issue	Comments
2051	June 1976	Indicated by a sideline in the margin

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The following BSI references relate to the work on this standard:
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NOTE Users of this British Standard, Marine Series, should note that while observing the requirements of the standard they should at the same time ensure compliance with such statutory requirements, rules and regulations as may be applicable to the individual ship concerned.

1 Scope

1.1 This British Standard provides a specification for a general purpose davit with a safe working load of 2 tonnes and outreaches of 1 500 mm and 2 250 mm.

NOTE 1 These davits are not intended for use with life saving appliances.

NOTE 2 The shipbuilder shall ensure that the deck structure in the region of the davit is adequate to withstand the loading expected to be imposed.

2 References

This standard makes reference to the following British Standards.

BS MA 10, *Oval eyeplates*.

BS MA 11, *Horncleats*.

BS 499, *Welding terms and symbols — Part 2: Symbols for welding*.

BS 1134, *Method for the assessment of surface texture — Part 1: Method and instrumentation*.

BS 3601, *Steel pipes and tubes for pressure purposes: carbon steel with specified room temperature properties*.

BS 4168, *Hexagon socket screws and wrench keys — metric series*.

BS 4190, *ISO metric black hexagon bolts, screws and nuts*.

BS 4320, *Metal washers for general engineering purposes*.

BS 4360, *Weldable structural steels*.

BS 4464, *Spring washers for general engineering and automobile purposes. Metric series*.

BS 4929, *Steel hexagon prevailing-torque type nuts — Part 1: Metric series*.

BS 5135, *Metal-arc welding of carbon and carbon manganese steels*.

3 Shapes and dimensions

3.1 The davits shall be of the shape and dimensions shown in Figure 1, Figure 2, Figure 3, Figure 4, Figure 5 and Figure 6.

3.2 The nominal sizes of the davits shall be designated by reference to outreach in millimetres and are 1 500 and 2 250.

NOTE The welding symbols used in the Figure 1 to Figure 6 are in accordance with BS 449-2 but the associated dimensions are expressed in terms of weld throat thickness and NOT leg length.

4 Materials

4.1 The materials used shall be in accordance with Table 1. Other materials may be used provided they are at least as suitable in all respects for the intended duty and are equally acceptable to the purchaser.

5 Quality of manufacture and finish

5.1 The davit shall be of fabricated steel construction comprising the davit jib and support stool (see Figure 1).

5.2 The welding of the component parts of the davit shall be properly carried out by an experienced operator in accordance with BS 5135.

5.3 The jib shall be of “H” section, the web cut to shape from plate and the flanges attached by continuous welding. The foot bearing, upper bearing support plate, horncleat, lifting and slewing eyeplates shall be fitted and attached as shown in Figure 2. The jib on completion shall be free from any distortion.

5.4 The support stool shall be made from plate cut rolled and longitudinally welded and fitted with bottom bearing support plate and other fittings as shown in Figure 3. The circularity of the inside diameter of the stool shall be controlled to within ± 2 mm and any internal weld beading shall be ground smooth in way of the top bearing surface. Alternatively, the stool may be fabricated from nominal size 450 steel tube (12.5 mm wall thickness) complying with the requirements of BS 3601. The bottom edge of the stool to be shaped to accommodate the deck camber or sheer.

5.5 The upper bearing plate with bearing pads and the cylindrical foot shall be made in accordance with details shown in Figure 4, Figure 5 and Figure 6. Machining symbols are in accordance with BS 1134-1.

5.6 The davit assembly shall be free from sharp edges and any visible faults likely to be detrimental to its intended duty. All welds shall be smooth and free from undercut or other irregularities.

5.7 After completion, the davit shall be given an anti-corrosive protective finish on all internal and external surfaces with the exception of bearing surfaces.

6 Inspection and tests

6.1 The assembled and completed davit shall be checked for initial lubrication of the lower bearing and the whole assembly visually inspected for any defects. It shall be demonstrated that the unloaded davit operates in a satisfactory manner before delivery to the ship and after installation on board ship.