
**Shipbuilding and marine structures —
Deck machinery — Vocabulary and
symbols**

*Construction navale et structures maritimes — Auxiliaires de pont —
Vocabulaire et symboles*

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 3828 was prepared by Technical Committee ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

This third edition cancels and replaces the second edition (ISO 3828:1984), which has been technically revised.

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


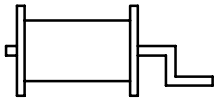
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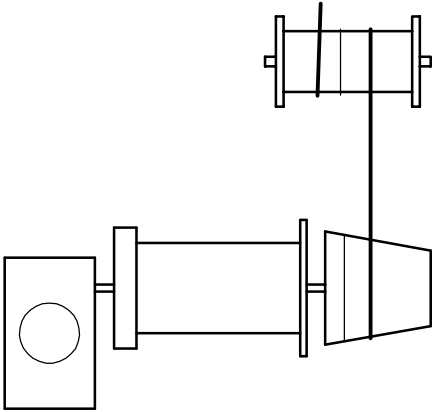
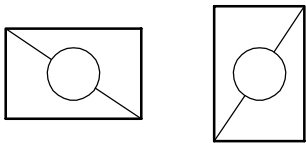
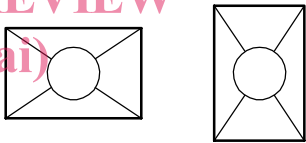
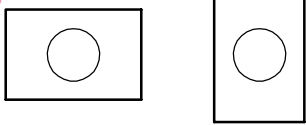
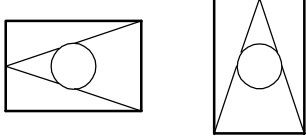
1 Scope

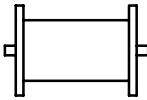
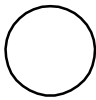
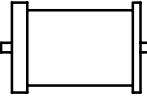
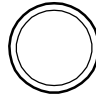
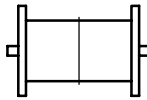
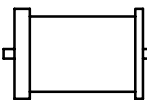
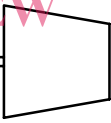
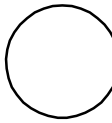
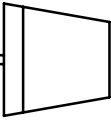
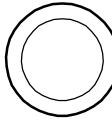
This International Standard establishes the vocabulary for the various terms in use relative to ship's deck machinery. It defines, in English, general terms used in connection with this subject, and includes specific terms associated with anchoring and mooring, cargo handling, towing, ancillary deck equipment and special deck machinery of working and oceanographic research ships.

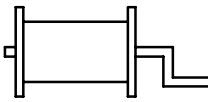
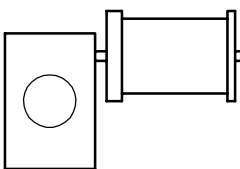
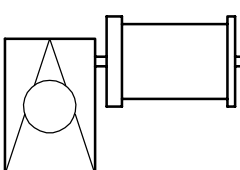
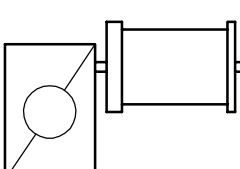

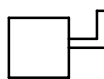
In the preparation of this vocabulary, care has been taken to standardize only suitable terms and definitions and not to perpetuate unsuitable terms because of their use in the past. The illustration given against the respective terms are purely diagrammatic and have been developed to provide for any series of combination of symbols, to represent the respective type of deck machinery.

2 General terms relating to deck machinery

Definition	Symbol
2.1 prime mover electric or hydraulic motor, steam engine or similar drive, acting directly on the deck machinery NOTE In a diesel electric drive, the electric motor is the prime mover.	Power source  Electric  Hydraulic  Pneumatic  Steam  Internal combustion X: number of discrete speeds (1.2.3, etc.) or V: infinitely variable speed
2.2 unpowered without any means of powering, except for hand power	

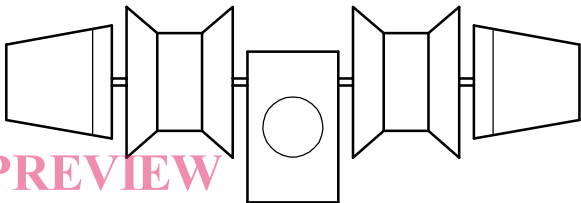
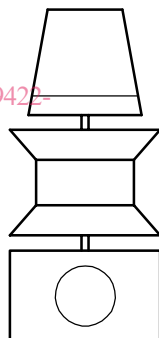
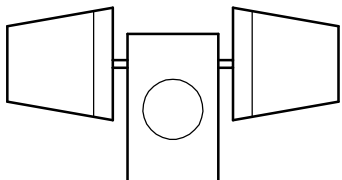
<p>2.3 externally powered activated by means other than a directly connected prime mover</p>	
<p>2.4 lightly powered prime mover which is suitable only for operating the deck machinery in a light loaded condition</p> <p>EXAMPLE Reeling in of an untensioned rope, or topping an unloaded derrick.</p>	<p>Non-portable</p>  <p>Portable</p>  <p>iTeh STANDARD PREVIEW (standards.iteh.ai)</p> <p>ISO 3828:2008 https://standards.iteh.ai/catalog/standards/sist/1b1f8a93-94b0-4d26-9422-7aac39046104/iso-3828-2008</p>
<p>2.5 fully powered prime mover which is suitable for operating the deck machinery at its full designed load</p>	
<p>2.6 non-automatic controlled solely by hand</p>	
<p>2.7 remote control controlled from a position not integral with the machine</p> <p>NOTE This may be achieved by a radio-electric, electric, hydraulic, pneumatic or other link.</p>	
<p>2.8 automatic controlled without direct human intervention</p>	

<p>2.9 drum a cylinder normally flanged at both ends</p> <p>NOTE When used, the rope is fixed and stored on it.</p>	<p>Unpowered</p>   <p>Powered</p>  <p>End view</p> 
<p>2.10 split drum drum normally split by a flange somewhere along its length</p> <p>NOTE The flange may or may not have a slot.</p>	<p>Unpowered</p>  <p>Powered</p> 
<p>2.11 warping end part similar to a drum but longitudinally concave shaped and fixed to the shaft end for hauling but not storing a rope</p> <p>ISO 3828:2008 https://standards.iteh.ai/catalog/standards/sist/1b1f8a93-94b0-4d26-9427-7aac39046104/iso-3828-2008</p>	<p>Unpowered</p>   <p>Powered</p>  
<p>2.12 fleet angle included angle between a rope and the vertical plane of the drum or warping end axial line, through the point at which the rope leaves the drum or warping end</p>	

<p>2.13 winch powered or unpowered machine, having one or more horizontally mounted drums and/or one or two warping end(s), on which a rope may be wound under load</p>	 <p>Unpowered</p>  <p>Fully powered</p>  <p>Fully powered</p>  <p>Lightly powered non-portable</p>  <p>Lightly powered portable</p>
<p>2.14 controller unit fitted with control levers, buttons, etc., as appropriate</p>	
<p>2.15 nominal size essential characteristic parameters of a machine's mechanical performance or an indication of its standing against some important technical index</p>	
<p>2.16 drum load maximum pull (kN) measured at the drum exit when the winch is hoisting or hauling in at the nominal speed with a rope wound on the drum in a single layer</p>	
<p>2.17 holding load maximum pull (kN) that can be maintained by a braking/locking system on a cable lifter or drum with a rope wound on it in a single layer</p>	
<p>2.18 stalling load maximum pull (kN) measured at the drum end when the drum ceases to rotate in the direction of applied driving torque, the prime mover being set for maximum torque and the rope being wound on the drum in a single layer</p>	

2.19 prototype test test applied to the first machine of a new design	
2.20 individual test test applied to each machine produced by a manufacturer	
2.21 type test a test applied to one of a batch of machines of identical design from one manufacturer	

3 Terms relating to anchoring and mooring

Definition	Symbol
3.1 windlass machine designed to drop and hoist the anchor NOTE A windlass has one or more cable lifters mounted on a horizontal shaft, each being fitted with a brake. The cable lifters are capable of being declutched from the prime mover. One or two warping ends may also be fitted.	
3.2 anchor capstan power-driven cable lifter mounted on a vertical shaft NOTE The vertical shaft may be extended beyond the cable lifter to carry a warping end. The cable lifter is capable of being declutched from the prime mover, and in operation and use is similar to the windlass.	
3.3 warping winch winch used solely for warping, on which a rope may be wound under power but not stored	
3.4 mooring winch winch with the ability to hold and haul a tensioned mooring rope and having a capacity for rope storage, controlled solely by hand	