
**Ships and marine technology —
Marine cranes — Technical
requirements for rigging applications**

*Navires et technologie maritime — Grues marines — Exigences
techniques pour les applications de gréement*

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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 committee responsible for this document is ISO/TC 8, *Ships and marine technology*, Subcommittee SC 4, *Outfitting and deck machinery*.

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Ships and marine technology — Marine cranes — Technical requirements for rigging applications

1 Scope

Rigging used for marine cranes is mainly wire rope rigging. This document specifies the technical requirements of the selection and application of running rigging and standing rigging used for wire rope rigging of marine cranes.

This document specifies the minimum requirements of the allowable strength and performance level for wire ropes of marine cranes according to the design, application and maintenance requirements of cranes.

This document specifies the implementation criteria of installation, maintenance, inspection and discards for running rigging and standing rigging of marine cranes.

This document is applicable to the following types of marine crane:

- deck cranes mounted on ships for handling cargo or containers in harbour or sheltered water conditions;
- floating cranes or grab cranes mounted on barges or pontoons for operating in harbour conditions or sheltered water conditions;
- engine room cranes and provision cranes, etc. mounted on ships (including floating docks) for handling equipment and stores in harbour conditions.

This document does not apply to the following:

- loads from accidents or collisions;
- lifting operations below sea level;
- cranes which are supposed to be included in the class of the vessel and where the vessel receives a crane class notation; the contents of this document may be used however, as recommendation or guidance;
- other items where there is the danger that they might be considered in-scope are excluded from this document, such as
 - loose gear items, such as the hook block, and
 - ropes and fittings;
- cranes which are to be included in class by the class society;
- minimum ambient operating temperatures no less than $-20\text{ }^{\circ}\text{C}$;
- maximum ambient operating temperatures above $+45\text{ }^{\circ}\text{C}$;
- transport, assembly, dismantling and decommissioning of cranes;
- lifting accessories, i.e. any item between the crane and the load;
- lifting operations involving more than one crane;
- hand powered cranes;
- emergency rescue operations;