
**Ships and marine technology —
Ship's mooring and towing fittings —
Universal fairleads with upper roller**

*Navires et technologie maritime — Corps-morts et ferrures de
remorquage de navires — Chaumards universels avec rouleau
supérieur*

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Published in Switzerland

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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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

This second edition cancels and replaces the first edition (ISO 13733:2012), which has been technically revised.

The main changes compared to the previous edition are as follows:

- technical guidelines have been added in [7.3](#) and [7.4](#);
- the definition of SWL ([3.1](#)) has been reworded;
- the object lines and mark numbers in [Figures 1, 2, 3](#) and [4](#) have been amended;
- the values of “*t*” for the vertical roller, lower horizontal and upper horizontal roller in [Table 5](#) (former Table 3) have been amended;
- the thickness of the bushes and washers have been added in [Table 5](#) (former Table 3);
- the description in [Clause A.1](#) has been amended;
- the dimension line (θ_1) in [Figure A.2](#) has been amended;
- the descriptions in [Clause A.3](#) have been amended;
- technical information on FEM and strength calculation have been added in [A.3.2](#) and [A.3.3](#).

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.