
International Standard



6219

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Shipbuilding — Inland vessels — Windlasses and anchor capstans

Construction navale — Bateaux de navigation intérieure — Guindeaux et guindeaux-cabestans

First edition — 1983-08-01

UDC 621.864 : 629.122

Ref. No. ISO 6219-1983 (E)

Descriptors : shipbuilding, inland navigation, winches, windlasses, definitions, specifications, acceptance testing.



Documents

Document Sharing Hub

Price based on 5 pages

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 6219 was developed by Technical Committee ISO/TC 8, *Shipbuilding and marine structures*, and was circulated to the member bodies in July 1981.

It has been approved by the member bodies of the following countries :

Austria	India	Poland
Belgium	Italy	Portugal
Brazil	Japan	Romania
Bulgaria	Korea, Dem. P. Rep. of	Spain
Cuba	Korea, Rep. of	Thailand
Czechoslovakia	Netherlands	USSR
Egypt, Arab Rep. of	Norway	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Germany, F.R.
United Kingdom

Shipbuilding — Inland vessels — Windlasses and anchor capstans

1 Scope and field of application

This International Standard specifies the requirements for the design, construction, safety, performance and acceptance testing of windlasses and anchor capstans for inland vessels having electric, hydraulic, steam or external drive (see ISO 3828).

NOTES

1 Where reference is made in the text to “windlass”, it should be understood as “windlasses and anchor capstans” where applicable.

2 Windlasses and anchor capstans for sea-going vessels are covered by ISO 4568.

2 References

ISO 21, *Shipbuilding — Inland navigation — Cable-lifters for anchor chains*.¹⁾

ISO 1704, *Shipbuilding — Stud-link anchor chains*.²⁾

ISO 2408, *Steel wire ropes for general purposes — Characteristics*.

ISO 3828, *Shipbuilding and marine structures — Deck machinery — Vocabulary*.³⁾

ISO 6482, *Shipbuilding — Deck machinery — Warping end profiles*.

3 Definitions

For the purposes of this International Standard, the terms and their definitions given in ISO 3828 shall apply.

Terms particularly applicable to this International Standard are defined as follows.

3.1 working load of the windlass : The working load derived from the chain diameter and chain grade, measured at the cable-lifter [see 5.5 a)].

3.2 drum load at the warping end or at the cable drum : The force in the steel or fibre rope entering the warping end or cable drum, developed by the main shaft torque appearing at the drum load in the chain cable.

3.3 overload pull : The necessary temporary overload capacity of the windlass [see 5.5 b)].

3.4 holding load : The maximum static load in the chain cable which the cable-lifter brake should withstand [see 5.5 c)].

3.5 nominal size of windlass : The size, expressed in terms of the chain diameter in millimetres, chain grade and holding load (see ISO 4568).

NOTE — In the case where studless chains are used, the letter “B” shall be added to the designation of the windlass. For example : 22/1/20/B represents a windlass for 22 mm diameter studless chain of IACS⁴⁾ grade 1, with a brake withstanding a holding load of 20 % of chain breaking load [see 5.5 c)].

1) At present at the stage of draft. (Revision of ISO/R 21-1956.)

2) At present at the stage of draft. (Revision of ISO 1704-1973.)

3) At present at the stage of draft. (Revision of ISO 3828-1976.)

4) International Association of Classification Societies.