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Ships and marine technology — Dredgers — Classification

Navires et technologie maritime — Dragues — Classification



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Foreword

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International Standard ISO 8385 was prepared by the European Committee for Standardization (CEN) in collaboration with ISO Technical Committee TC 8, *Ships and marine technology*, Subcommittee SC 7, *Inland navigation vessels*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

Throughout the text of this standard, read "...this European Standard..." to mean "...this International Standard...".

This second edition cancels and replaces the first edition (ISO 8385:1999), of which it constitutes a technical revision.

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Foreword

The text of EN ISO 8385:1999 has been prepared by Technical Committee CEN/TC 15 "Inland navigation vessels", the secretariat of which is held by DIN, in collaboration with Technical Committee ISO/TC 8 "Ships and marine technology".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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1 Scope

This standard provides a single classification for all types of dredgers designed for loosening, raising, transporting and disposing of dredged material.

2 Normative References

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the last edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 8384

Ships and marine technology – Dredgers – Vocabulary

3 Terms and Definitions

For the purposes of this standard, the terms and definitions given in ISO 8384 apply.

4 Classification

Dredgers are classified on the basis of the criteria as specified in table 1:

Table 1: Classification on basis of criteria

Category of criteria	Criteria	
1 Area of operation	1.1 Inland waterways, inland ports and sites for soil extraction	
	1.2 Seagoing	1.2.1 Harbours and coastal zone
		1.2.2 Offshore
		1.2.3 Ocean-going
	1.3 Special environments	1.3.1 Tropical
		1.3.2 Arctic
		1.3.3 Other special environments
2 Soil characteristics	2.1 Silts	
	2.2 Peats and organic soils	
	2.3 Sands	
	2.4 Gravels	
	2.5 Clays	
	2.6 Boulders and cobbles	
	2.7 Rocks	
	2.8 Mixed soils	
	2.9 Fine sidements	

(continued)

Table 1 (continued)

3 Power plant	3.1 Steam	
	3.2 Diesel	
	3.3 Diesel-electric	
	3.4 Diesel-hydraulic	
	3.5 Electric	
	3.6 Electric hydraulic	
	3.7 Gas-turbine	
	3.8 Nuclear	
	3.9 Combinations	
4 Mobility	4.1 Non-propelled	
	4.2 Self-propelled	
	4.3 With limited propulsive capabilities	
5 Transportability	5.1 Non-dismountable	
	5.2 Dismountable	
6 Crew quarters	6.1 Without crew accomodation	
	6.2 With day accomodation	
	6.3 With sleeping accomodation	
7 Location of dredging apparatus	7.1 At one side	
	7.2 At both sides	
	7.3 In a well	7.3.1 Fore
		7.3.2 Aft
	7.4 On deck	7.4.1 Fore
		7.4.2 Aft
8 Operating movements	8.1 Longitudinal	8.1.1 Ahead
		8.1.2 Astern
	8.2 Traversing or lateral/arc	
	8.3 Combinations and special	
9 Equipment for move- ment and propulsion	9.1 Propellers or other propulsive devices	
	9.2 Anchors	
	9.3 Spuds	
	9.4 Combinations and special	
(continued)		

Table 1 (continued)

10 Method of soil extraction	10.1 Single bucket dredgers	10.1.1 Dipper dredgers	
		10.1.2 Backhoe dredgers	
	10.2 Grab dredgers	10.2.1 Single grab dredgers	
		10.2.2 Multi-grab dredgers	
		10.2.3 Dragline dredgers	
	10.3 Bucket dredgers		
	10.4 Rockbreakers	10.4.1 With freely falling chisel	
		10.4.2 With powered chisel	
		10.4.3 With drilling for blasting	
	10.5 Bed levellers		
	10.6 Agitation dredgers		
	10.7 Suction dredgers	10.7.1 Type of dredge pump	10.7.1.1 Centrifugal or axial flow pump
			10.7.1.2 Jet pump
			10.7.1.3 Air lift
			10.7.1.4 Combinations and special
		10.7.2 Method of loosening soil	10.7.2.1 Cutter head
			10.7.2.2 Bucket wheel/cutting wheel
10.7.2.3 Hydraulic agitator			
10.7.2.4 Combinations and special			
10.7.3 Type of suction head		10.7.3.1 Forward suction head	
		10.7.3.2 Draghead	
		10.7.3.3 Combinations and special	

(continued)

(continued)

Table 1 (concluded)

11 Disposal/transport of dredged material	11.1 Direct delivery	
	11.2 Hydraulic delivery	11.2.1 Cantilever pipeline
		11.2.2 Floating pipeline
		11.2.3 Submersible pipeline
	11.3 Chute	
	11.4 Belt conveyor	
	11.5 Delivery by barge	
	11.6 Hopper dredgers	11.6.1 Bottom doors or valves
		11.6.2 Split hull
		11.6.3 Other means of disposal
11.7 Combinations		

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