BRITISH STANDARD

BS EN ISO 8385:1999

Ships and marine technology — Dredgers — Classification

The European Standard EN ISO 8385:1999 has the status of a British Standard

ICS 47.040; 47.060

National foreword

This British Standard is the English language version of EN ISO 8385:1999. It is identical with ISO 8385:1999. It supersedes BS 7466:1991 which is withdrawn.

The UK participation in its preparation was entrusted by Technical Committee SME/32, Ships and marine technology — Steering committee, to Subcommittee SME/32/7, Ships and marine technology — Inland navigation vessels, which has the responsibility to:

— aid enquirers to understand the text;

— present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;

— monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

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Summary of pages

This document comprises a front cover, an inside front cover, the EN ISO title page, pages 2 to 6, an inside back cover and a back cover.

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English version

Ships and marine technology - Dredgers - Classification (ISO 8385:1999)

Navires et technologie maritime - Dragues - Classification (ISO 8385:1999)

Schiffe und Meerestechnik - Schwimmbagger - Klassifizierung (ISO 8385:1999)

This European Standard was approved by CEN on 15 February 1999.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No. EN ISO 8385:1999 E

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of an identical text or by endorsement, at the latest by November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.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.

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 latest edition of the normative document referred to applies. Members of ISO and IEC maitain 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 movement 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)

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	

BS EN ISO 8385:1999

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