# INTERNATIONAL STANDARD

ISO 8385

TC 8

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## Shipbuilding and marine structures – Dredgers – Classification

Construction navale et structures maritimes – Dragues – Classification iTeh STANDARD PREVIEW (standards.iteh.ai)

<u>ISO 8385:1990</u> https://standards.iteh.ai/catalog/standards/sist/1c4f3d82-a022-4faf-8780d55f5c5168b2/iso-8385-1990



Reference number ISO 8385:1990(E)

#### 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 8385 was prepared by Technical Committee ISO/TC 8, Shipbuilding and marine structures ndards.iteh.ai)

Annex A of this International Standard is for information only.

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International Organization for Standardization

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## Shipbuilding and marine structures — Dredgers — Classification

#### 1 Scope

This International Standard provides a single classification for all types of dredgers designed for changing the dimensions of waterways in the interests of navigation by extracting or shifting the soil, where a dredger is considered to be a vessel or floating structure intended for dredging.

### iTeh STANDARD PRE (standards.iteh.ai)

- 1 Area of operation
- 2 Soil characteristics
- 3 Power plant
- 4 Mobility

11

- 5 Transportability
- 6 Crew quarters
- 7 Location of dredging gear

**Operating** movements

- Equipment for movement and propulsion
- Method of soil extraction
- Disposal of dredged material

#### 2 Classification

Dredgers are classified on the basis of the criteriago 1 to 11 in table 1: https://standards.iteh.ai/catalog/standards/sist/1c4f3d82-a022-4faf-8780-

d55f5c5168b2/iso-8385-1990

1 Area of operation	1.1 Inland waterways			
	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		

#### Table 1 - Classification on basis of criteria

1

#### ISO 8385:1990(E)

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
3 Power plant	3.1 Steam
	3.2 Diesel
	3.3 Diesel-electric
	3.4 Diesel-hydraulic
	3.5 Electric
	3.6 Electric-hydraulic (standards.iteh.ai)
	3.7 Gas-turbine
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	<b>3.9</b> Mixed
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 accommodation
	6.2 With day accommodation
	6.3 With full sleeping accommodation

7 Location of dredging gear	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				
	P.T Spuds TANDARD PREVIEW				
	9.4 Combinations and specials.iteh.ai)				
10 Method of soil ex- traction	10.1 Single bucket dredgers ISO 838	10.1.1 Dipper dredgers 5:1990			
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	10.2 Grab dredgers	10.2.1 Single grab dredgers			
		10.2.2 Multi-grab dredgers			
	10.3 Multi-bucket dredgers				
	10.4 Rockbreakers	10.4.1 With freely falling chisel			
		10.4.2 With forced movement chisel			
		10.4.3 With drilling for blasting			
	10.5 Scraper dredgers				
	10.6 Bed levellers				
	10.7 Agitation dredgers				

<b>10</b> Method of soil ex- traction ( <i>concluded</i> )	10.8	Suction dredgers	10.8.1 Type of dredge 10.8.1.1 Centrifugal pump ial flow pump				
						10.8.1.2	Jet pump
				• •		10.8.1.3	Air lift
						10.8.1.4 special	Combinations and
			10.8.2 ing soil	Method of loos	sen-	10.8.2.1	Cutter
						10.8.2.2	Bucket wheel
						10.8.2.3	Hydraulic agitator
						10.8.2.4 special	Combinations and
			10.8.3 head	Type of suc	tion	10.8.3.1 head	Forward suction
						10.8.3.2	Draghead
i de la companya de l Interna de la companya	Teh	STANDAR	D PI	REVIEN	V	10.8.3.3 special	Combinations and
11 Disposal of dredged material	11.1	Direct delivery	.iteh	.ai)			
	11.2	Hydraulic delivery ISO 8385:	<b>11.2.1</b>	Cantilever pipel	ine		
https	//standa	ards.iteh.ai/catalog/standard d55f5c5168b2/iso		Selecting_pipeline	<b>8</b> 80-		· · ·
				Submersible pip	peline		
	11.3	Chute					
	11.4	Belt conveyor					
	11.5	Delivery by barge					, 
	11.6	Hopper dredgers	11.6.1	Bottom doors of	r valv	es	
			11.6.2	Split hull			
			11.6.3	Other means of	dispo	osal	
	11.7	Combinations				and the second secon	

#### Annex A (informative)

### Bibliography

[1] ISO 8384:—<sup>1</sup>, Shipbuilding and marine structures — Dredgers — Vocabulary.
[2] PIANC<sup>2</sup>, Classification of soils and rocks to be dredged, 1984.

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<sup>1)</sup> To be published.

<sup>2)</sup> Permanent International Association of Navigation Congresses.

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