



Dynamically positioned Grab Hopper Dredger

Principal Dimensions

Length overall	approx.	66.00	m
Length between perpendiculars	approx.	63.00	m
Breadth moulded	approx.	12.00	m
Depth moulded	approx.	4.30	m
Draught at summer draught	approx.	3.65	m
Draught at reduced draught	approx.	3.95	m
Gross tonnage		< 3 000	GT

Capacity

Hopper capacity		700	m ³
Hopper load		1 200	ton
Service speed	approx.	12.0	kn

Dredging equipment

One grab crane suitable for:			
• mud handling - grab		12 m ³	
• sand handling - grab		10 m ³	
Dredging depth		35.00	m
• One dredge pump, electrically driven		350	kW
• One jet water pump, electrically driven		500	m ³ /h
• One trailing suction pipe, diameter		350	mm
• Dredging depth		35.00	m
• Four single hinged type bottom doors			

Machinery

Main diesel engines	2x 1 550 kW
Shaft generators	2x 700 kW - 400 Volt AC 50 Hz
Auxiliary generator set	1x 250 kW - 400 Volt AC 50 Hz
Emergency generator set	1x 75 kW - 400 Volt AC 50 Hz
Azimuth thrusters	2x 1 300 kW with controllable pitch
Bow thrusters	2x 400 kW with controllable pitch

General

The grab dredger has been designed for position keeping during grab dredging operations under the following sea conditions:

- Sea state 3.
- Wind Beaufort 7.
- All headings.
- Current: 2.0 knots.

Under these conditions, the maximum vessel's motions were defined as

- Maximum roll motion: ± 8 degrees.
- Maximum pitch motion: ± 4 degrees.

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