

# CASTORO XI

HEAVY DUTY CARGO BARGE



**SAIPEM**

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## HEAVY DUTY CARGO BARGE

### TECHNICAL SPECIFICATIONS

#### DIMENSIONS

- Hull type: Flat bottom
- Class: RINA 100 A 1.1
- Dimensions: 150 m x 40 m x 9 m
- Max. draught: 6.5 m
- Gross tonnage: 15,400 t
- Free deck area: 5,200 sq.m
- Cargo dead-weight: 29,469 t

#### DECK CAPACITY

- Distributed load: 15 t/m<sup>2</sup>
- Concentrated load on transverse frame: 500 t
- Concentrated load on bulkhead/transverse frame: 1,250 t
- Concentrated load on side shell/transverse frame: 1,250 t

#### EQUIPMENT

- Ballast tank capacity: 38,975 m<sup>3</sup>
- Fuel oil capacity: 58 t
- Fresh water capacity: 8 t
- Ballast system: 4 E./pumps 1,000 m<sup>3</sup>/h. each 18 mlc total head
- Remote control operation of ballast system with draft and tank levelgauging
- Fire/bilge system: 2 E./pumps 100 m<sup>3</sup>/h. 60 mlc total head
- Auxiliary/emergency system: 2 E./pumps 60 m<sup>3</sup>/h
- 15 mlc total head
- Electric power plant: 2 x 320 kw main diesel generators, 1 x 35 kw aux. diesel generator
- Air compressor: 2 x 700 m<sup>3</sup>/h 7 bar for general service, 1 x 20 m<sup>3</sup>/h. 30 bar starting compressor, 1 x 7.5 m<sup>3</sup>/h. 30 bar reservoir
- Ballast Water Treatment System IMO and USCG Compliant In-Tank Chlorination Type

#### MOORING SYSTEM

- 2x 30 t Hydraulic Mooring Winches with warping heads and drums for synthetic mooring rope
- 2 x hydraulic mooring winches storage capacity drum 1,000 m x 38 mm diameter wire rope
- 1 x hydraulic mooring winch for towline storage capacity drum 100 m x 32 mm diameter wire rope
- 1 x towing bridle suitable for a tug pull of 200 t

Castoro XI is designed to maximise deck strength and point-load bearing capacity to support high module loads without the need for extensive grillage and, in consequence, with significant savings in time and costs. Furthermore length, width and draft restrictions imposed by most of the North Sea load-out quays have been taken into careful consideration. The result is a new transportation barge in the marketplace, with modern and innovative technical characteristics, able to efficiently meet the needs of the offshore industry of today and for some time into the future.