

## 2. Engineering Vessel

Vessels for various engineering uses can be constructed, such as exploration ship, drilling ship, dredger, wind turbine installation vessel, power barge, platform supply vessel, etc. The classification can be made as owner's requirement, and the Dead weight is general about 50000tons. The classification of the vessel can be CCS, ABS, DNV, and so on.

### 2.1 129 Oil Tanker



With linear stern bulb and bulbous bow, this oil tanker is steel, single deck, last models, single propeller, single rudder, and is driven by diesel engine. There are forecastle superstructure and poop. Above the poop deck is five-story deckhouse. There is a walk bridge in the cargo oil tank area between forecastle superstructure and poop. There are 12 cargo oil tanks (six pairs on the left and right) and a pair of slop tank. Cargo oil tank area is double bottom double-shell structure. Double-bottom tank and side tank are used for ballast water tank.

The load of the vessel is around 12600 tons. It is used to carry gasoline and diesel oil with flash point less than 60°C. And the cargo oil proportions considered in designing the vessel are 0.75t/m<sup>3</sup> and 0.882t/m<sup>3</sup>. The main trade area of the vessel is zone II.

The vessel is designed according to Technical Regulations of Ships and Offshore Installations for Statutory Surveys 2004—Technical Regulations for Statutory Surveys of Sea-going Ships on Domestic Voyages, whose structure is strengthened in accordance with requirements for B rank ice zone.

### Basic Parameters Of 129 Oil Tanker

Length over all	137.76m
Design draft length	132.85m
Length between perpendiculars	129.50m
Breadth moulded	20.80m
Depth moulded	10.80m
Design draft	8.30m

### 2.2 “HAIBAO 6” Seismic Source Vessel



The vessel is made of steel. It adopts transverse framing structure, transom bow and transform stern. There is a two courses deckhouse at the bow and the quarter deck is air rifle operation deck. The vessel has two engines, two fixed pitch propeller and two streamlined hanging rudder. It is applicable to air rifle seismic exploration in shelf area.

### Basic Parameters Of “HAIBAO 6” Seismic Source Vessel

Length over all	45.59m ( tail suspension 4.5m )
Length between Perpendiculars	36.40m
Breadth moulded	8.40m
Depth moulded	4.0m
Design draft	1.80m
Scantling draft	2.20m

## 2.3 Twin Marine Lifter



The TML heavy lift system represents a new way of doing marine heavy lift operations. The TML can be used for both removal and installation of platform top sides, jackets, sub sea installations and salvage operations.

### Basic Parameters Of Twin marine lifter

Length over all	≈ 141.10 m
Length between perpendicular	≈ 139.80 m
Breath moulded	40.00m
Depth moulded	10.75 m
Design draft	8.00 m
Cargo dead weight	20.00 m



## 2.4 3600t Oil Supply Ship



The ship designed by Shanghai Merchant Ship Design and Research Institute is a new type marine oil supply ship for China Marine Bunker Supply Company. The oil supply ship is aft engine type with twin-engine, twin-rubber and twin-propeller. Double-bottom tank and side tank are used for ballast water tank. The ship shall have CCS class and shall fly Chinese flag. The load of the ship is around 3600 tons, the design speed is 12 knot and the endurance is 1000 nautical mile. This ship will be a new type oil supply ship of China Marine Bunker Supply Company and will become a main force in oil supply ship.

### Basic Parameters Of 3600t Oil Supply Ship

Length over all	87.60m
Length hull	84.00m
Breadth moulded	15.00m
Depth moulded to main deck	7.10m
Design draft (dwl)	5.60m
Scantling draft	3400t