CMA CGM DIGNITY - CONTAINER SHIP



Shipbuilder: Hyundai Heavy Industries
Vessel's name:CMA CGM Dignity
Owner/Operator:CMA CGM
Country:France
Designer: Hyundai Heavy Industries
Country:Republic of Korea
Flag:Malta
IMO number:9897779
Total number of sister ships already com-
pleted (excluding ship presented):
Total number of sister ships still on order: 14

In 2019, Eastern Pacific made a huge foray into the dual-fuel container ship sector with an order for 22 15,000TEU vessels spread between Hyundai Samho and spread between Hyundai Samho and Hyundai Heavy. The ships were to be taken into long term charters by several of the major container liner operators. CMA CGM Dignity handed over in February 2022 is typical of the type and the first built at Hynudai Heavy.

The ships are fully cellular and CMA CGM Dignity has a nominal capacity of 15,264TEU which reduces to 10,315 at an homogenous 14tonnes. Hold capacity is 6,068TEU in 11 tiers and 18 rows and on deck 9,226TEU in 12 tiers and 20 rows. There are 123 reefer points. Whilst liner operators do continue with larger ship orders, the 15,000TEU size is increasingly being seen as the ideal due to its flexibility in choice of ports. With its 365.99m loa, beam of 51m and draught of 16m, CMA CGM Dignity can use the Panama Canal unlike the larger sizes.

The chosen power and propulsion system for the vessel comprises a 46,360kW output Hyundai-built MAN B&W 11G90ME-C10.5-GI-EGRTC main engine directly connected to a 10m diameter fixed pitch propeller. This allows for a service speed of 21.65kt at 80%MCR. Auxiliary power is supplied by four HIMSEN 8H35DF engines. The EGRTC suffix denotes the vessel uses exhaust gas recirculation with turbocharger cutout to achieve NOx Tier III requirements.

The use of LNG as fuel along with energy saving rudder bulb and propeller boss cap fin allows the vessel to achieve an EEDI of 6.63 well below the 14.12 required value for a vessel of the size.

A pair of Hyundai HiBallast systems rated at 1,000m³/h each allow the ship to meet the ballast treatment requirements and with these systems approved by IMO and USCG permits worldwide trading.

TECHNICAL PARTICULARS

Length oa:	26E 00m
Length bp:	350m
Breadth moulded:	51m
Depth moulded	
to main deck:	
Width of double skin	
side:	28mm
bottom:	24mm

Draught
scantling:16m
design:14.5m
Gross:150,783
Deadweight
scantling:160,194t design:136,240t
design:130,240t
Speed, service (80%MCR output):21.65kts (NCR with 15% S.M.)
Cargo capacity (m³) Bale:abt. 15,300TEU
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Refrigerated storage:1,000TEU
Bunkers (m³)
Heavy oil:5,416.8
Diesel oil:
Daily fuel consumption (tonnes/day)
Main engine only:137.6
Auxiliaries:111.5
Classification society and notations:LR (+ 1A Container ship BIS BWM(T) CMON COAT-
PSPC(B) EO Gas fueled LNG LCS Recyclable
RSCS RSD TMON(oil lubricated) WIV ER(EGR,
SCR, TIER III))
% high-tensile steel used in construction: 68.5%
Propulsion
Main engine(s)
Design: Electronically controlled two-stroke,
direct reversible, crosshead type diesel engine
Model:MAN B&W 11G90ME-C10.5-
GI-EGRTC Manufacturer:Hyundai - MAN B&W
Number:
Number:1 Type of fuel:LFO / ULSFO / MGO / Gas
Output of each engine:46,360kW
Is this a diesel-electric or hybrid?:N
Propeller(s)
Material:Ni-Al Bronze
Designer/Manufacturer:HHI-EMD
Number:5
Fixed/Controllable pitch:Fixed
Diameter:10,000
Diesel-driven alternators
Number:4 Engine make/type:Hyundai/HiMSEN 8H35DF
Type of fuel:LFO / ULSFO / MGO / Gas
Boilers
Number: 1
Type:Automatic, forced draft, DF
burning marine boiler
Make:Kangrim
Output, each boiler:8,000kg/h
Stern appendages/special rudders:Becker Twisted Fin
Bow thruster(s)
200 M SANTA 3 4 4 5 3 3 4 4 5 5 4 5 5 5 6 5 6 5 6 5 6 5 6 5 6 5

Number:9
Make: MacGregor
Type: Electric Special lifesaving equipment
Number of each and capacity: 2 (each 32P)
Make:
Cargo/capacity
Hatch covers
Design:SMS-SME Manufacturer:Marine Tech Inc
Type:Pontoon, non-sequential
operation type Containers
Lengths:6,058mm (20ft), 12,192mm (40ft)
Heights:2,591mm (8ft 6inch), 2,896mm
(9ft 6inch) Cell guides:40ft Cell guide
Total TEU capacity: 15,294TEU
On deck:
In holds:6,068TEU Homogeneously loaded to 14tonnes:
10.315TEU
Reefer plugs:
On deck:12 Tiers / 20 Rows
In holds:11 Tiers / 18 Rows Cargo valve control system
Make:KSB Seil
Type:Hydraulic type
Ballast valve control system Make:Emerson
Type: Electro-hydraulic type
Ballast water treatment system Make:(Hi-Ballast) Hyundai Heavy
Industries, Engine & Machinery Division
Capacity:1,000m ³ /h x 2
Complement
Officers:
Crew:
Bridge control system
Make:
Is bridge fitted for one-man operation?N
Integrated bridge system:N
Radars Number:1
Make:
Model(s):JMR-9282-S, JMR-9225-7X3
Model(s):JMR-9282-S, JMR-9225-7X3 Fire detection system
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Model(s):JMR-9282-S, JMR-9225-7X3 Fire detection system Make:

Output (each):......3,000kW AC 6,600V 60Hz

Tasks:Provision handling, Suez boat

Performance:3ton x 9.03m (Port), 3ton x

.Sangsangin Industry

Jib type

handling

10.2m (Stbd)

Make:

Type:

Number: ...

Other cranes

Number: Make:

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