



K. YOUNGHUNG: Bulk carrier

Shipbuilder: **Sungdong Shipbuilding & Marine Engineering Co., Ltd.**
 Vessel's name: **K. Younghung**
 Hull No: **S1207**
 Owner/Operator: **KSF 33 International SA / SK Shipping**
 Country: **Panama**
 Designer: **Sungdong Shipbuilding & Marine Engineering Co., Ltd.**
 Country: **Republic of Korea**
 Model test establishment used: **KRISO**
 Flag: **Panama**
 IMO number: **9708590**
 Total number of sister ships already completed **0**
 (excluding ship presented): **0**
 Total number of sister ships still on order: **1**

K. YOUNGHUNG has a flush deck with forecastle, bulbous bow, open water type stern, single rudder and single screw propeller driven by a slow speed diesel engine.

The vessel is built according to Korean Resister specifications and designed in accordance with IACS common structural rules (CSR). The vessel is principally for carrying coal only. The BC-B notation is applied for cargo holds with the maximum cargo density of 1.5t/m³.

The vessel is constructed with a single skin in way of cargo holds with double bottom and topside tanks. The cargo hold area is divided by vertical corrugated transverse watertight bulkheads into seven cargo holds. The No.4 cargo hold can be used as a floodable hold for heavy ballast conditions and No.2 and No. 6 holds also can be used as partial floodable holds for the adjustment of the air draught at specific ports.

The vessel takes into account the latest environmental guidelines such as MARPOL Annex I Reg. 12A for oil fuel tank protection, the Inventory of Hazardous Materials (IHM) for ships' recycling, performance standards for protective coatings (PSPC) for water ballast tanks and peak tanks, and the ENV notation.

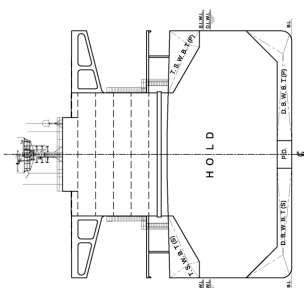
The MCR of the main engine is 11,550kW at 83rpm and the service speed at the design draught at NCR (9,875kW) with 15% sea margin is 14 knots and can travel more than 23,000 nautical miles. Three diesel generators driven by alternators with 750kW output have been installed.

TECHNICAL PARTICULARS

Length oa: 273m
 Length bp: 265m
 Breadth moulded: 46m

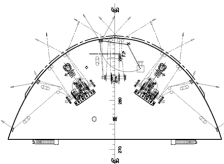
Depth moulded
 To main deck: 22.7m
 Draught
 Scantling: 16.5m
 Design: 15.2m
 Gross: 79,000gt
 Deadweight
 Design: 135,000dwt
 Scantling: 151,000dwt
 Speed, service (– %MCR output): 14knots at 85.5% of MCR
 Bunkers (m³)
 Heavy oil: 3,000m³
 Diesel oil: 350m³
 Water ballast (m³): 73,000m³
 Daily fuel consumption (tonnes/day)
 Main engine only: 36.1tonnes/day
 Classification society and notations: KR / "KRS1 - Bulk Carrier 'ESP' CSR, BC-B (max. cargo density 1.5 t/m³), PSPC, LI, IWS, GRAB [20], ENV (IBWM, IAFS, IOPP, ISPP, IAPP, IGPP, IIHM, IEE), SEATRUST (HCM), +KRM1 – UMA, STCM"
 % high-tensile steel used in construction: 77
 Main engine(s)
 Design: MAN B&W
 Model: 5G70ME-C9.2 Tier II
 Manufacturer: Doosan Engine
 Number: 1 set
 Type of fuel: HFO & MGO
 Output of each engine: 11,500kW x 66rpm (Specified MCR)
 Propeller(s)
 Material: Ni-Al-Br
 Designer/Manufacturer: Sungdong Shipbuilding & Marine Engineering Co. Ltd. / HHI
 Number: 1 set
 Fixed/Controllable pitch: FPP
 Diameter: 9m
 Speed: 66rpm
 Diesel-driven alternators
 Number: 3 sets
 Engine make/type: Doosan Engine / 6L23/30H MK2
 Type of fuel: HFO & MGO
 Output/speed of each set: 852kW / 720rpm
 Alternator make/type: HHI / HFC7 504-10P
 Output/speed of each set: 750kW / 720rpm
 Boilers
 Number: 1 set
 Type: Composite
 Make: Kangrim Heavy Industries

Output, each boiler: 1,600kg/hr (oil fired side), 1,000kg/hr (exhaust gas side)
 Other cranes
 Number: 2 sets
 Make: Oriental
 Type: Electric-hydraulic type jib crane
 Tasks: Engine part handling, provision handling, Suez mooring boat handling
 Performance: Port (8t), Starboard(4t)
 Mooring equipment
 Number: Windlass 2 sets, Mooring winch 6 sets
 Make: Rolls-Royce
 Type (electric/hydraulic/steam): Electro -hydraulic
 Special lifesaving equipment
 Number of each and capacity: 1 set x 25persons
 Make: Norsafe
 Type: Totally enclosed free fall type
 Hatch covers
 Design: MacGregor
 Manufacturer: MacGregor
 Type (upper deck/other decks): Electro -hydraulic motor driven and chains
 Ballast control system
 Make: Emerson
 Type: Electro-hydraulic type
 Water ballast Treatment System
 Make: Techcross
 Capacity: 2,500/h x 2 sets
 Fire detection system
 Make: BI
 Type: Addressable type
 Fire extinguishing systems
 Engine room: Tyco & Seaplus
 Make/Type: Local water mist
 Radars
 Number: S-Band Radar 1 each, X-Band Radar 1each
 Make: JRC
 Model(s): JMR-9282-S(S-Band Radar), JMR-9225-9X3(X-Band Radar)
 Waste disposal plant
 Waste handled: 700,000kcal/h (814kW)
 Incinerator
 Make: HYUNDAI-ATLAS..... Model: MAXI NG150SL WS
 Sewage plant
 Make: IN-SEUNG
 Model: ISS-25N
 Contract date: August 2013
 Launch/float-out date: June 2015
 Delivery date: August 2015

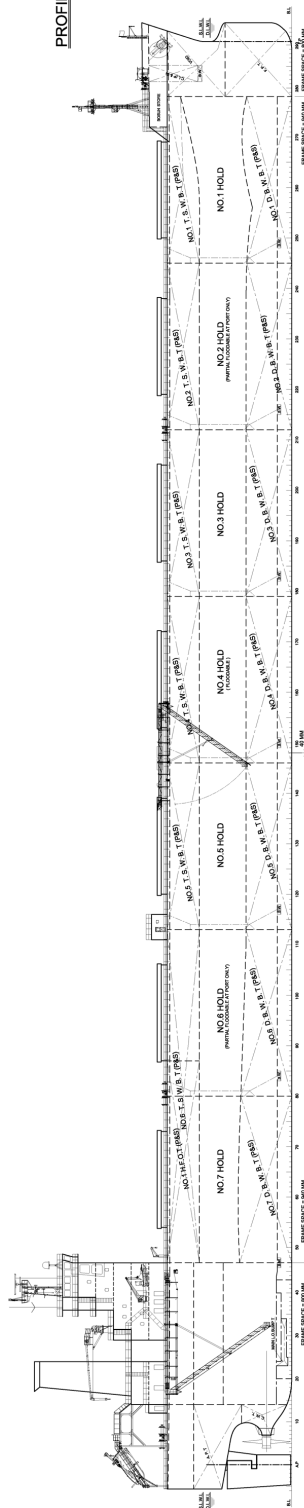


MIDSHIP SECTION

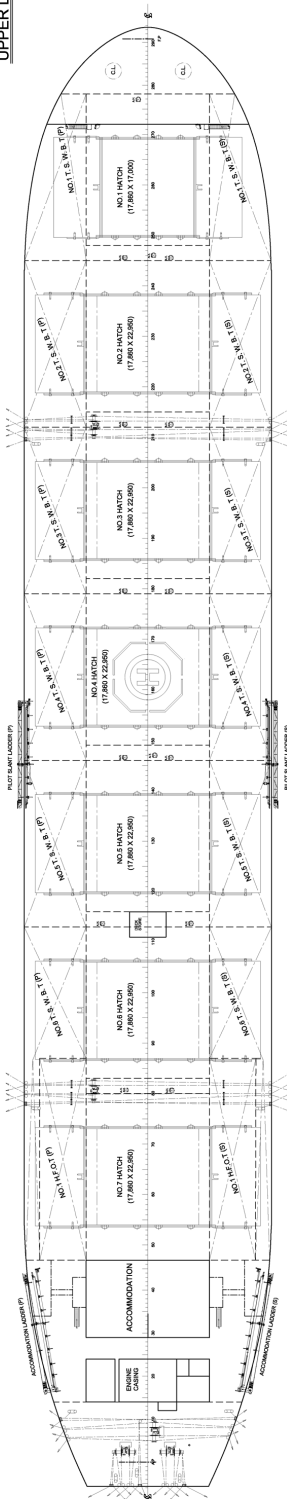
FCLE DECK



PROFILE



UPPER DECK



TANK TOP

