

DESIGN PURPOSE AND ADVANTAGES

MATESIS IS DEVELOPED A NEW GENERATION SEA-RIVER CARGO SHIP MAINLY FOR THE RIVER-SEA FLEETS OF THE EUROPEAN COUNTRIES AND IT IS SPOTTED THAT THE FLEET IS VERY OLD AND HAS TO BE REPLACED SOON AFTER NEW EU AND IMO REGULATIONS. THE MAIN OBJECTIVES OF THIS PROJECT ARE; REPLACE THE OLD FLEET WITH THE NEW GENERATION COASTER AFTER REGULATIONS ON HARMFUL GAS EMISSION OF IMO TIER 3, 4 AND EU SECA, INCREASING CARGO CAPACITY BY 20% COMPARED TO EXISTING SHIPS, REDUCING STEEL LIGHT WEIGHT SIGNIFICANTLY USING STRUCTURAL OPTIMIZATION, SATISFYING COMF+ ACOUSTIC AND VIBRATION STANDARDS FOR THE LIVING QUARTERS, IMPROVING STABILITY AND SEAKEEPING PERFORMANCE OF THE VESSEL BY LOWERING THE CENTRE OF GRAVITY. SHE HAS VERY REDUCED LIGHT WEIGHT AND **ENERGY EFFICIENT** VEHICLE. SHE IS OPTIMIZED ABOUT AIR DRAUGHT, MAIN DIMENSIONS, **LIGHT WEIGHT REQUIRED** POWER AND ENVIRONMENTAL EFFECTS. ALSO HAS OPTIMIZED **FULLY BOX SHAPED** CARGO HOLD INCLUDING AIR VENTILATION AND CAN CARRY **DANGEROUS GOODS** AS WELL.

MAIN DIMENSIONS

LENGTH O.A	88.00 m
LENGTH B.P.P	84.54 m
BEAM MLD.	11.40 m
DEPTH MLD.	5.30 m
DRAUGHT DESIGN	4.00 m
AIR DRAUGHT @ T=3 m	6.50 m
DEADWEIGHT @ TDESIGN	2600 ton
DISPLACEMENT	3521 ton
GROSS TONNAGE	1925 ton
NET TONNAGE	1040 ton
SPEED @ TDESIGN	11 knot

OPTI-COASTER 5200

BASIC FUNCTION	TRANSPORT OF BULK, STEEL COILS, CONTAINERS, FOREST PRODUCTS, GENERAL CARGO, ETC.
TYPE OF VESSEL	MPP/GENERAL CARGO
CLASSIFICATION	BUREAU VERITAS ✕ Hull ✕ Mach AUT-UMS, IWS
SERVICE AREA	OCEAN GOING-CEVNI
FLAG	DUTCH
HEAVY CARGO	15 t/m ³
EQUIPPED FOR DANGEROUS GOODS ACC.TO SOLAS REG.19 II-2	

AUXILIARY EQUIPMENT

1 EMERGENCY /HARBOR GENERATOR SET	70 KW - 50 HZ
BWTS	300 m ³ /h (US COASTGUARD APPROVED)
CENTRAL COOLING WITH BOX COOLER	
1 CO2 FIRE FIGHTING SYSTEM FOR CARGO AREA	



SOLAR-COASTER 2600



GREEN SILENT EFFICIENT

PROPULSION SYSTEM

DIESEL ELECTRIC+SOLAR PANEL	4 X 250 kW
BOW THRUSTER	350 kW E DRIVEN WITH FREQUENCY CONVERTER
PROPELLER	1 x FIXED PITCH

HOLD DETAILS

HOLD DIMENSIONS	60.90 x 9.20 x 6.70 m
HOLD CAPACITY	132571 cbft
VENTILATION	6 CHARGE PER HOUR
10 PIECES PONTOON TYPE STEEL HATCH COVER HANDLED BY GANTRY CRANE	

NAV-COM EQUIPMENT

AS PER GMDSS A1+A2+A3 REQ.

DECK MACHINERY

2 x ANCHOR-MOORING WINDLASS AT FWD
2 x MOORING WINCH AT AFT

OPTIONS

HIGH FLAP RUDDER
SHAFT GENERATOR
LOADING AGROUND
FINISH-SWEDISH ICE 1A/1B
CONTROLLABLE PITCH PROPELLER
COMPOSITE PONTOON HATCHES COVERS



