DAMEN SCHELDE NAVAL SHIPBUILDING
SIGMA NAVAL PATROL 9113 “CORVETTE”

GENERAL
Yard reference YN 397, 398, 399 and 400
Customer Indonesian Navy
Basic functions Naval Patrol EEZ, deterrence, Search And Rescue, ASW
Hull material Steel grade A / AH36
Standards Naval / Commercial, naval intact / damaged stability, noise reduced, moderate shock
Classification Lloyd’s Register of Shipping (supervision)

DIMENSIONS
Length o.a. 90.71 m
Beam mld 13.02 m
Depth no.1 deck 8.75 m
Draught (dwl) 3.60 m
Displacement (dwl) 1700 tonnes

TANK CAPACITIES
Fuel oil 217 m³
Freshwater 31 m³
Helicopter fuel 16 m³

PERFORMANCE
Speed (maximum power) 28 knots
Range at 14/18 knots 4800 / 3600 NM
Endurance 20 days at sea

PROPULSION SYSTEM
Diesel engines 2 x 8100 kW MCR (8910 kW max)
Gearbox 2 x single input/single output
Propellers 2 x CPP diameter 3.35 m

AUXILIARY SYSTEMS
Generator sets 4 x 400 kVA / 60 Hz
Emergency gen. set 1 x 130 kVA / 60 Hz
Chilled water system 2 x units, redundant distribution
Fire fighting 3 x main pumps +1 x service pump
Passive roll-stabilization tank

DECK EQUIPMENT
Helicopter deck max. 5 tons helicopter, with lashing points
Heli operations day/night with refuelling system
RAS on helicopter deck PS&SB, astern fuelling
Deck cranes 2 x 1.5 tonnes at 6.0 m
Boats 2 x RHIB

ACCOMMODATION
Fully air-conditioned accommodation for 80 persons
Commanding Officer 1
Officers 17
Chief Petty Officers 10
Petty Officers 25
Junior Ratings 27
Provisions for NBC citadel / decontamination

WEAPON & SENSOR SUITE
3D-Surveillance & target indication radar & IFF
Radar / electro-optical fire control
2 x Target Designation System
Hull mounted sonar
Combat management system, CIC
Medium calibre gun
2 x small calibre guns
2 x SSM Launcher
2 x SHORADS
2 x triple Torpedo launcher
ESM / ECM
2 x Decoys / chaff
Integrated internal & external communication system

NAUTICAL EQUIPMENT
Integrated bridge console, 1 x Radar, 2 x ECDIS, GMDSS-A3, reference gyro
1 Superior hull form performance
2 Low vibrations at high speed
3 Quick manoeuvring response
4 Efficient integrated bridge with clear view around the area
5 Economic and comfortable sailing in a seaway
6 Accommodation in selective styling and quality
7 Ward and dining room to customer choice of finishing
8 Mess and recreation rooms
9 Excellent control functionality in platform systems
10 Reliable power generation and distribution
11 Complete hotel facilities with adjacent provision stores
12 Typical SIGMA highly survivable systematic subdivision and add-on naval standards
13 Spacious main passage and access areas
14 Full Lloyds classification with high level of safety and fire protection