



DAMEN SCHELDE NAVAL SHIPBUILDING

SIGMA NAVAL PATROL 10514 "FRIGATE"

GENERAL

Customer	Indonesian Navy
Basic functions	Naval Patrol EEZ, deterrence, Search And Rescue, ASW, AAW, ASUW, EW
Hull material	Steel grade A / AH36
Standards	Naval / Commercial, naval intact / damaged stability, noise reduced, moderate shock
Classification	Lloyd's Register of Shipping (supervision) *100 A1 SSC Mono Patrol, G6, LMC UMS

DIMENSIONS

Length o.a.	105.11 m
Beam mld	14.02 m
Depth no.1 deck	8.75 m
Draught (dwl)	3.7 m
Displacement (dwl)	2365 tonnes

PERFORMANCE

Speed (Maximum power)	28 knots
Range at 14 knots	5000 NM
Endurance	20 days at sea

PROPULSION SYSTEM

Propulsion type	CODOE
Diesel engines	2 x 10000 kW MCR Propulsion type
Electric motors	2 x 1300 kW
Gearbox	2 x double input input/single output
Propellers	2 x CPP diameter 3.55 m

AUXILIARY SYSTEMS

Generator sets	6 x 715 kW E
Emergency gen. set	1 x 180 kW E
Chilled water system	2 x units, redundant distribution
Fire fighting	4 x main pumps +1 x service pump
Degaussing System	

DECK EQUIPMENT

Helicopter deck	max. 10 tons helicopter, with lashing points
Heli operations	day/night with refuelling system
Helicopter hangar	
RAS	on helicopter deck PS&SB, astern fuelling
Boats	2 x RHIB

ACCOMMODATION

Fully air-conditioned accommodation for 120 persons	
Commanding Officer	1
Officers	26
Chief Petty Officers	10
Petty Officers	36
Junior Ratings	29
Trainee Officers	18
Provisions for NBC citadel / decontamination	

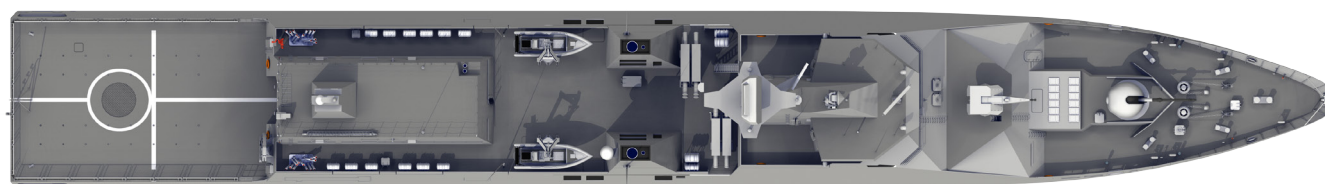
WEAPON & SENSOR SUITE

3D-Surveillance & target indication radar & IFF	
Radar / electro optical fire control	
Hull Mounted Sonar	
Combat management system	
Medium calibre gun 76 mm	
1 x Close In Weapon System	
2 x SSM launcher	
12 cell VL SHORADS	
2 x triple Torpedo launcher	
ESM & ECM	
2 x Decoys / chaff	
Integrated internal & external communication system	

NAUTICAL EQUIPMENT

Integrated bridge console, 2 x Radar, ECDIS, GMDSS-A3, reference gyro	
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SIGMA



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DAMEN

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Member of the DAMEN SHIPYARDS GROUP



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