



DAMEN SCHELDE NAVAL SHIPBUILDING

SIGMA 10514 "PERUSAK KAWAL RUDAL" FRIGATE

GENERAL

Customer	Indonesian Navy (TNI-AL)
Primary functions	Anti Air Warfare, Anti Surface Warfare, Anti Submarine Warfare
Secondary	Maritime Security & Safety, Disaster Relief/ Humanitarian Aid
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)	3.70 m
Displacement (dwl)	2365 tons

PERFORMANCE

Speed (Maximum power)	28 knots
Speed on E-propulsion	15 knots
Range at 14 knots	> 5000 NM
Endurance	> 20 days at sea

PROPULSION SYSTEM

Propulsion type	combined diesel or electric (CODOE)
Diesel engines	2 x 10000 kW MCR diesel propulsion
Electric motors	2 x 1300 kW MCR electric propulsion
Gearbox	2 x double input input/single output
Propellers	2 x CPP diameter 3.65 m
Integrated platform management system	

AUXILIARY SYSTEMS

Generator sets	6 x 735 kWE (CAT C-32A)
Emergency gen. set	1 x 180 kWE
Chilled water	2 x units, redundant distribution
Fire fighting	4 x main pumps +1 x service pump
Freshwater making capacity	2 x 14 m³/day (RO) + 2 x 7.5 m³/day (evaporators)

DECK EQUIPMENT

Helicopter deck	max. 10 tons helicopter
Heli operations	day/night with refuelling system
Helicopter hangar	suitable for approx 6 tons helicopter
RAS	on helicopter deck PS&SB, astern fuelling
Boats	2 x RHIB

ACCOMMODATION

Fully air-conditioned accommodation for 122 persons	
Commanding Officer	1
VIP cabin (Flag officer standard)	1
Officers	26
Chief Petty Officers	10
Petty Officers	28
Petty officer (female)	8
Junior Ratings	29
Trainee Officers	18
Canal Pilot cabin.	1
Provisions for NBC citadel / decontamination	

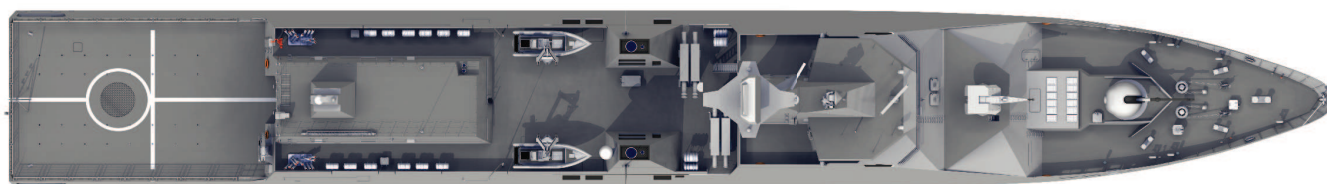
WEAPON & SENSOR SUITE

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 4 SSM launchers	
12 cell SAM launcher	
2 x triple Torpedo launching system	
ESM & ECM	
2 x Decoy launchers	
Integrated internal & external communication system	

NAUTICAL EQUIPMENT

Integrated bridge console, 2 x navigation radar, ECDIS, GMDSS-A3, reference gyro	
---	--

SIGMA



DAMEN SCHELDE NAVAL SHIPBUILDING

SIGMA 10514 "PERUSAK KAWAL RUDAL" FRIGATE

DAMEN

DAMEN SCHELDE NAVAL SHIPBUILDING

Member of the DAMEN SHIPYARDS GROUP



De Willem Ruysstraat 99
4381 NK Vlissingen

P.O. Box 555
4380 AN Vlissingen
The Netherlands

phone +31 (0)118 48 50 00
fax +31 (0)118 48 50 50

info@damennaval.com
www.damennaval.com