



**P.T. DUMAS**  
TANJUNG PERAK SHIPYARD



## KN. ANDROMEDA, KN. ALPHARD, KN. ALNILAM

Ordered by : Direktorat Jenderal Perhubungan Laut

BUILT UNDER LICENCE FROM A SHIPBUILDING KIT SUPPLIED BY DAMEN TECHNICAL COOPERATION

### GENERAL

YARD NUMBER : 554002 - 554003 - 554004  
DELIVERY DATE 554002 : 14<sup>th</sup> November 2008  
DELIVERY DATE 554003 & 04 : Expected 14<sup>th</sup> May 2009  
BASIC FUNCTIONS : Retrieving, Launching and inspection of aids to navigation equipment (buoys) logistic supply of personnel and consumables

CLASSIFICATION : Biro Klasifikasi Indonesia (BKI)  
\* A 100 (1), \* SM  
FLAG : Indonesia

### DIMENSIONS

LENGTH O.A : 51.94 m  
LENGTH B.P.P : 47.07 m  
BEAM MLD : 10.20 m  
DEPTH AT SIDES : 4.35 m  
DRAUGHT (DESIGN) : 3.00 m  
DEADWEIGHT : 410 ton

### TANK CAPACITIES

FUEL OIL : 101 m<sup>3</sup>  
FRESH WATER : 107 m<sup>3</sup>  
WATERBALLAST : 164 m<sup>3</sup>

### PERFORMANCES

SPEED : 11.0 knots  
RANGE : 3000 nm

### PROPULSION SYSTEM

MAIN ENGINE : MAK 6M20  
POWER : 1380 hp / 1020 kW at 900 rpm  
GEARBOX : Reintjes WAF 843L, red.ratio 3.08 : 1  
PROPELLER : Fixed pitch, 2000 mm diameter  
BOW THRUSTER : Electrically driven FPP, 150 kW

### AUXILIARY EQUIPMENT

MAIN GENERATOR SETS : 2x Caterpillar 3406C-TA  
CAPACITY : 269 kVA, 380 V, 50 Hz  
EMERGENCY HARB. GENZET : Caterpillar C9  
CAPACITY : 169 kVA, 380 V, 50 Hz

### DECK LAY-OUT

ANCHOR : 2x HHP Pool anchors, 765 kg each  
ANCHOR WINCH : Hydraulically driven with two warping heads  
BUOY LAYING DECK CRANE : Dreggen Crane, hydraulically driven, capacity 10 ton @ 7.5 meter  
BUOY HANDLING CAPSTANS : 2x Hydr. driven, 3 ton pull  
CAPSTANS : Electrically driven, 3 ton pull

### ACCOMODATION

Fully air-conditioned and accomodation for 51 persons in single, double and four-berth cabins

### DECK LAY-OUT

Navigation and communication equipment according the GMDSS regulations for area 2.

X-BAND RADAR : Furuno FAR-2117  
GYRO COMPASS : Anschuetz Standard 22 Compact  
AUTOPILOT : Anschuetz Pilotstar D  
GPS : Furuno GP-150  
SPEEDLOG : Furuno DS-80  
ECHOSOUNDER : Furuno FE-700  
VHF/DSC : 2x Sailor RT-5022  
SSB/DCS : Furuno FS-2570  
AIS : Furuno FA-150  
SSAS : Sailor TT30000SSA  
VHF RADIO DIR. FENDER : Taiyo Musen TS-L155A  
WEATER CHART REC. : Furuno FAX-408  
ANEMOMETER : Obsermet OMC-115

Head Office : Jl. Nilam Barat 12 Surabaya Phone (62-31) 3295111 (Hunting) Fax (62-31) 329340  
email : info@dumas.co.id website : www.dumas.co.id

Shipyard : Jl. Nilam Barat 22-26 Surabaya Phone (62-31) 3295111 (Hunting) Fax (62-31) 3293240

Branch Office : Jl. Sungai Gerong 17 Jakarta Pusat Phone (62-21) 31927415, 319244823 Fax (62-21) 3144343