



TUGBOAT

SPECIFICATION

General

Type Vessel	Tugboat	Alat Navigasi	Radio SSB HF SAMYUNG Type SRG - 3150 DN
Year of Built	New		Antena Vertical Merk VAKES PISER & Automatic Antena Tuner
Classification	BKI		Radar merk Furuno Type 1623 Display unit RDP - 141
Material	Steel Plate ABS GRADE A		Radio VHF Type IC - M330 Merk ICOM - Japan
Shipyard	PT. Karya Teknik Utama		Power Supply Merk ICOM Model : 6010 GPS NAVIGATOR Merk Furuno Type GP-39 Dan Antena Type GPA-017 Furuno Japan
Flag	Indonesia		Compass Merk Daico KEIKI Type T 150 B ukuran 8" + Reflector.
GT/NT	213/64		Echo Sounder Merk Furuno Type FCV 688 AIS, EPIRB, SART, NAVTEX
Length Over all	27.00 M		
Length WL	25.70 M		
Beam Moulded	8.20 M		
Depth Moulded	4.00 M		
Draft Design	3.00 M		
Main Engine	2 (two) units YANMAR MARINE DIESEL ENGINE MODEL 6EY17W (1138 HP / 1450 RPM) 2 (two) units GEARBOX Type YXH 500 (KANZAKI)		
Number of Propeller	2 (two) units left and right		
Aux. Engine	2 (two) units YANMAR Marine Generating Set TYPE YTG75TLV Open Marine, Prime Rating (48 KW/60 KVA)		
Paint / Cat	HEMPEL		

Accommodation

Crew	12 (dua belas) orang
Cabin	2 (dua) unit
Galley	1 (satu) unit
Windows & Scuttles	Marine Windows & Scuttles

Life Saving Equipment

Safety Equipment	According to Class requirement
Life Raft	2 x 15 persons, Type KHA - (83) 6
	Life Jacket = 12 buah
	Life Buoy = 8 buah
	Parachute Signal = 6 buah
	Red Hand Flare = 4 buah
	Smoke Signal = 6 buah

Fire Fighting Equipment

Fire Extinguisher	5 (lima) tabung @ 9 liter (Foam & Dry Chemical)
	4 (empat) tabung @ 6 liter (halon)
Fire Hydrant	40 mm Fire Hydrant Complete set - 5 sets Dia. 1 1/2 "
Other	Fireman Axe 1 unit

Painting and Deck Covering

Paint	As per yard Standard
	All plate have to be sandblasted and primer coat before fabrication
Bottom	2 x A/C + 2 A/F
Boot top	2 x A/C + 2 B/F
Top Side	2 x A/C + 2 T/S
Upper deck	2 x A/C + 2 D/P
Fresh water Tank	Fresh water paint
Fuel Oil Tank	Not to be painted

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Machinery & Deck Equipment

Steering Gear	1 (satu) set Electro Hydraulic Steering Gear of 3 ton suitable For 2 x 35 degree rudder angle c/w emergency hand hydraulic Steering Pump
Windlass	1 (satu) Set Electric Anchor windlass 2G/W Suitable for 19 mm dia., 220/380 V - 7,5 HP
Anchor	300 kgs Stockless, Anchor x 2 units
Anchor Chain	247.5 Meter (110 + 137.5) long x U2, dia. 19 mm Stud Link Chain
Towing Hook	1 (satu) Set 25 ton Quick Mechanical Open Type
Propeller	Manganese Bronze Ukuran disesuaikan dengan Mesin Induk Mikado Jepang
Stern Tube	Bosses system - Line Boring
Rudder	Steel 2 sets
Shafting	2 x 6,5" dia Stainless Steel Shaft 316 L c/w Standard Accessories.
Fuel Oil Pump	ORIENTAL KOSHIN Model GL-32-5 Type GL-32-5-4 Cap. 81/75L/Min Pressure 5 Kg/cm2, Speed 1720/1450 RPM Made In Japan
Bilge Pump	EBARA Type Centrifugal 50x40 FSHA Cap. 200 l/m / 3.75 KW / 50 HZ
GS Pump	EBARA Type Centrifugal 65x50 FSHA Cap. 300 l/m / 7.5 KW / 50 HZ
Sanitary Pump	DAVEY XP 350 P8C Cap. 100 L/Min Made In Australia
Fresh Water Pump	DAVEY XP 350 P8C Cap. 100 L/Min Made In Australia
Oil Water Separator (OWS)	Type 0,25 CYF Rated 0,25 m3 / H 2 HP 380 / 50 HZ 3PH
Blower	2 (dua) unit untuk Engine Room Merk CKE Type 400 AFD Cap. 4330 CFM 2,2 KW 380 V / 50 HZ 2800 RPM 2 (dua) unit untuk Dapur Merk CKE Type FD 300 Cap. 2414 CFM RPM 2700 0,75 KW
Search Light	1000 watt, 380 V / 50 HZ 3 HP
Air Conditioner	5 (lima) Unit

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FLAT TOP DECK CARGO BERGE

SPECIFICATION

Description / Size of Barge 330 x 90 x 20 FEET

No. of W.T longitudinal bulkheads 3

No. of W.T transverse bulkheads 9

Plate Thickness

Main deck 14.0 mm

Bottom 14.0 mm

Sideshell 14.0 mm (lower strake) &
12 mm (mid and upper strake)

Transom / Headlog 14 mm

T. Bulkheads (Collision Bulkhead) 10.0 mm (lower strake) &
9 mm (mid and upper strake)

(Other transverse Bulkheads) 9.0 mm

L. Bulkheads 12.0 mm & 10 mm (0.5L amidship)
10.0 mm & 9 mm
(outside 0.5L amidship)

Webs (Flanged)

Main deck	W635 x 152.4 x 12 mm (Fr. 0-27)
	W508 x 101.6 x 9 mm (Fr. 27-32)
Bottom	W609.6 x 152.4 x 9 mm (Fr. 0-27)
	W508 x 101.6 x 9 mm (Fr. 27-32)
Side shell	W609.6 x 127 x 10 mm (Fr. 0-27)
	W508 x 101.6 x 9 mm (Fr. 27-32)
Longitudinal Bulkheads	W609.6 x 101.6 x 10 mm
Transverse Bulkheads	W558.8 x 101.6 x 10 mm
	W406.4 x 101.6 x 9 mm (stringer)

Longitudinal

Deck	(Longitudinal Stiffeners) IA300 x 90 x 11/16 mm (Fr. 0-27)
	(Longitudinal Stiffeners) AB150 x 90 x 9 mm (Fr. 27-30)
Bottom	(Longitudinal Stiffeners) IA300 x 90 x 11/16 mm
	(Transverse Stiffeners) IA250 x 90 x 10/15 mm
Sideshell (Longitudinal Stiffeners)	IA300 x 90 x 11/16 mm (L1)
	(Longitudinal Stiffeners) IA250 x 90 x 10/15 mm (L2-L5)
	(Longitudinal Stiffeners) AB150 x 90 x 9 mm (L6-L7)
	(Transverse Stiffeners) AB150 x 90 x 9 mm
Transverse Bulkheads	AB150 x 90 x 9 mm
Longitudinal Bulkheads	IA250 x 90 x 10/15 mm (L1-L2)
	AB150 x 90 x 12 mm (L3-L4)
	AB150 x 90 x 9 mm (L5-L7)

FLAT TOP DECK CARGO BERGE

Typical Web Frame

Vertical Stanchions (Fr. 0-25)	H300 x 300 x 84.5 kg/m
Stanchions (Fr. 25-29)	H203.2 x 203.2 x 46.13 kg/m
Diagonal	AB150 x 150 x 12 mm
Chain Bar	Ø 50 mm Round Bar

Note :

1. Include Sideboard Height 12 Feet and Thickness 9 mm
 2. Include Front Door
 3. Include Pusher Box 2 in left and 2 in right
 4. Include Gunwale Standard
 5. Exclude Rampdoor
 6. Deck Load 8 t/m²
 7. Class BKI
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Barge Equipments :

1. 2000 Kg Stockless Anchor c/w Anchor Sackle = 1 Set
 2. Windlass 38 mm with chain 38 mm x 27,5 m x 4 length
 3. Wire Rope 32 mm x 20 meter c/w Double Tymbble Eye = 2 Lght
 4. Navigation Lamp = 1 pcs
 5. Towing Rope Cir 10 = 1 Roll
 6. 8" Inch Moring PP Rope @40m = 2 Roll
 7. Fender with Chain (Used Tyre) = 52 pcs
 8. Alumunium Anode @ 10 Kg = 65 pcs
 9. Semilong Link Chain 5/8" x 5' = 330 Feet
 10. Sackle 3/4" = 68 pcs
 11. Shackle 17 Ton Bolt Type = 4 pcs
 12. Shackle 25 Ton Bolt Type = 1 pcs
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