



SERATA
ENGINEERING
MARINE SPECIALIST

Company Profile

PT SERATA MAKMUR RAYA
Indonesia's Distributor & Manufacturer for
Marine Equipment & Supplies

MARINE SUPPLIES | MAIN & AUX ENGINE |
GENERATOR SET | PROPULSION SYSTEM |
MOORING & MACHINERY DECK | NAV & COMM

SURABAYA, EAST JAVA 60225
SAMARINDA, EAST KALIMANTAN 75242
INDONESIA

VER.
09.2024

A limited Corporation by

SERATA
GROUP



A member of :



ABOUT US



2014
Established



300+
Vessels Powered



30+
Years Combined
Experience



10+
Trusted Global
Suppliers

At PT Serata Makmur Raya (d.b.a Serata Engineering), we offer various complete set of marine products from trusted brands to ensure the quality is met with your boat needs.

From East Kalimantan to Nationwide coverage, we aim to be the leading marine supplier & parts manufacturer in the region. With us, we provide multiple solutions to your shipbuilding & shipping line challenges.



PROPELLING YOUR MARITIME BUSINESS



+62 812 5550 8385



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+300 VESSELS SUPPLIED



Vessel Name:
KSA 144

Transportation Type :
Tug Boat Coal Barge

Dimension :
29.6 x 9 x 4

Main Engine :

Flag :
Indonesia

Class :
BKI

Supplied : VALBRUNA SS 316L 7"



Vessel Name:
TMH 09

Transportation Type :
Tug Boat Coal Barge

Dimension :
28.50 x 8. x 4

Main Engine :
Mitsubishi

Flag :
Indonesia

Class :
BKI

Supplied : KAPLAN PROPELLER CUI



Vessel Name:
TB. Napoleon 31

Transportation Type :
Tug Boat Coal Barge

Dimension :
29.6 x 8.4 x 3.75

Main Engine :
S6R2 -MTK3L

Flag :
Indonesia

Class :
BKI

Supplied : HLM-D50 MARINE GEN-SET



Vessel Name:
TB. Napoleon 21

Transportation Type :
Tug Boat Coal Barge

Dimension :
29.6 x 8.4 x 3.75

Main Engine :
S6R2 -MTK3L

Flag :
Indonesia

Class :
BKI

Supplied : HLM-D50 MARINE GEN-SET



Vessel Name:
ABA 25

Transportation Type :
Tug Boat Coal Barge

Dimension :
29 x 8 x 4m

Main Engine :
YANMAR 6EYM

Flag :
Indonesia

Class :
BKI

Supplied : B-SERIES PROPELLER CUI



Vessel Name:
Karunia Samudra 8

Transportation Type :
Tug Boat Coal Barge

Dimension :
28.8 x 8.2 x 3.7

Main Engine :
Yanmar 6EYM

Flag :
Indonesia

Class :
BKI

Supplied : Yanmar Marine Genset 60KVA

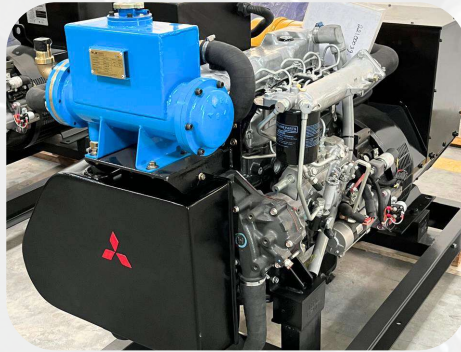
and many more

MARINE GEN-SET

HLM Power is one of our first registered brands under UD Bellinau, a trusted marine workshop in Surabaya, East Java Indonesia. Since 2008, we've been renowned and trusted by local shipyards notably in East Kalimantan to assemble marine generator sets.

In 2022, HLM Power & UD Bellinau was recognized by Xin Ming Hua, Pte Ltd., one of the sole authorized main dealers for Mitsubishi Heavy Industries for the Southeast Asia region. With this recognition, HLM Power has been entrusted to assemble Mitsubishi diesel engines into marine generator sets for the Indonesia market.

Powered by:  **MITSUBISHI
HEAVY INDUSTRIES**



Genset Model	Engine Model	Alternator Brand	Rated Power kW/KVA	Speed (RPM)	Governor	Freq.	Scope
HLM-D50	MITSUBISHI DIESEL 4D33 (45 kW)	STAMFORD/ MECCALTE HLM POWER/ DAIGENKO/ REXFORD (Class IP23)	40kW/ 50KVA	1500	Mechanical	50Hz, Three Phase, 380- 400V	Heat Exchanger Water Cooled, Sea Water Pump, Monitor Panel, HLM Engine Mounting, Emergency Stop
HLM-D60	MITSUBISHI DIESEL 4D34-T (54kW)		48kW/ 60KVA	1500			
HLM-D75	MITSUBISHI DIESEL 6D16 (94kW)		60kW/ 75KVA	1500/ 1800			
HLM-D120	MITSUBISHI DIESEL 6D24 (123kW)		96kW/ 120KVA	1500/ 1800			

Available another engine brand :



We accept for any gen-set power customization based on your request

CERTIFIED CLASS



MAIN & AUX ENGINE

Marine engines are designed to handle operations in tough, nautical applications., reliability is key. We provide the power range from the small auxiliary engine to the main engine with rated power 10HP to 1100HP. From Leisure Boat to Anchor boat to Tug-Boat to Tanker Vessel, we are equipped with well-known brand engine maker partners to power your marine fleets.



**MITSUBISHI 4D - 6D Series
Auxiliary Engine**



**WEICHAH WP4 - WP10 Series
Auxiliary Engine**



**YANMAR 4TNV Series
Auxiliary Engine**



**ISUZU UM6 Series
Main Propulsion Engine**



**SDEC H Series
Main Propulsion Engine**



**HYUNDAI HG Series
Main Propulsion Engine**



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ALTERNATOR & ELECTRIC MOTOR

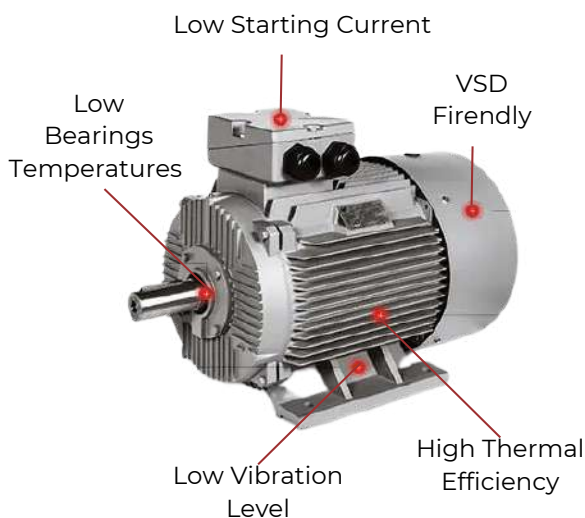
Our generators & motors are manufactured by British & China Joint Venture company that produce reliable & high-quality standards. All of our products are suitable for the marine environment industry. Stamford Type, Small-size, Light-weight, Delicate appearance, Reliable operation, in conformity with IEC, GB755, and relevant standards.



HLM POWER - TWG Series 3-Phase Brushless Alternator

Rated Power	30 - 100 KVA
Protection Class	IP23
Insulation Class	H
Speed	1500 RPM
Rated Voltage	380V
Amp	75.9 A
Frequency	50 Hz
Phase	3
PF	0.8
Weight	± 274KG
Dimiension	921 X 858 X 308

CDF series three-phase motors are newly designed by our company for the European and American markets based on Y2 series. Its rated power and mounting sizes are the same as the Y2 series. The efficiency of CDF and SDF can meet the standards of EFF2 and EFF1. The motors are adopted in class F (Temperature rise B) insulation and IP55 protection. Motors can be equipped with PTC, as well as the re-greasing system for frame size 160 and above, bearings of SKF, NSK or NTN at optional.



HLM POWER - CDF Series Cast Iron 3-Phase Electric Motors

Housing Metrial	Cast Iron / Aluminium
Output Range	0.55KW - 315KW
Pole	2/4/6/8
Terminal Box	Top / Side Mounted
Protection Class	IP55
Insulation Class	F/H
Bearing	SKF/NSK/Chinese
Frequency	50/60HZ
Efficiency Standard	IEC60034-30 IE1

PROPELLER



From B-Series to Kaplan Series, our propeller quality has been verified & trusted by many shipping lines to increase their top speed & fuel efficiency.

Our engineers are fully capable to calculate the perfect fit of diameters & pitch based on your ship's particular data.

Product specification :

- Material : CU1 - CU3
- Type: FPP - CPP
- Model: B-Series / Kaplan



CERTIFIED CLASS



SHAFTING



SANYO
SPECIAL
STEEL



VIRAJ
Viraj Profiles Limited

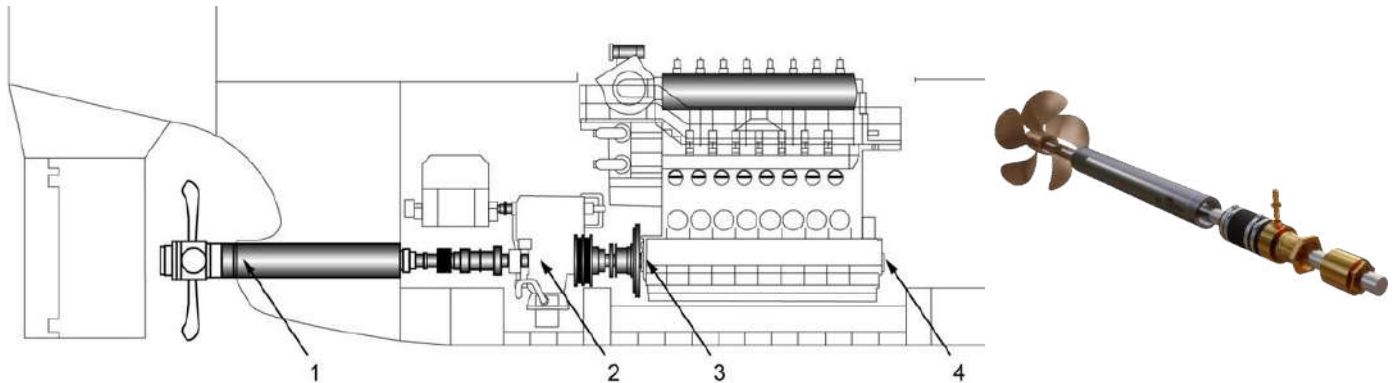


ACCIAIERIE VALBRUNA
High quality is our standard

SeAH Steel

Partnering with well-known Steel Mills from Italy, India, Japan and South Korea, we have been trusted to become an authorized importer & distributor for the SS 304/304L and 316/316L that are suitable for marine propulsion systems.

From custom Stern-Tube, Bearing, Machining, and coupling, our workshop has been trusted to process all of the shafting arrangements with BKI standard.



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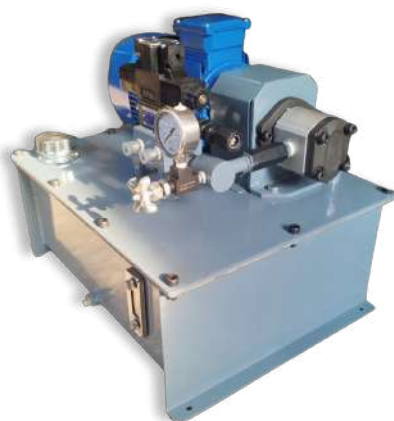
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STEERING GEAR



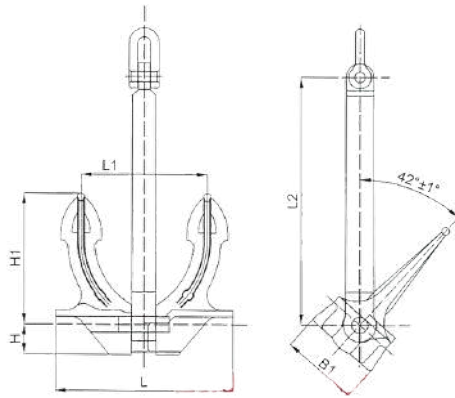
We are able to offer Steering Gear types namely single & double rudder. Steering gear consists of Wheel House Control Panel, including Rudder Angle indicator, Power indicator, Overload Alarm indicator, Low Level Oil indicator, Emergency Stop, Joystick and Angle Plate mounted on Rudder Tiller.

Minimum Rudder Area	: 2.35 - 2.5 m ²
Rudder Force	: 15 - 16 kN
Rudder Torque	: 7.65 - 8.16 kNm
Rudder Stock Diameter	: Min 71mm (Typical) 101.6mm or 4" and 127mm or 5"



ANCHOR & CHAIN

H_M

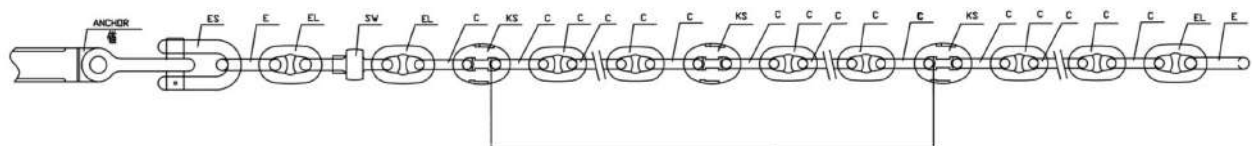
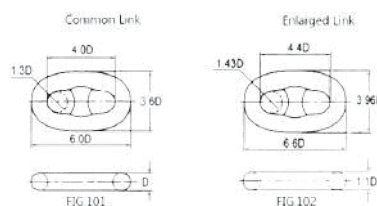


Our Anchor and chain products have been manufactured from recognized and certified factories. We sell various kinds of anchors and sizes of chains to support our marine product's equipment.

Specification:

NORMAL	DIMENSION(MM)					
WEIGHT(KG)	L	L1	L2	H	H1	H2
180	650	459	910	111	480	280
240	720	510	1010	122	530	310
300	770	540	1080	131	570	331
360	820	580	1150	139	610	353
420	860	610	1200	146	640	370
480	900	640	1260	153	670	387
570	950	670	1330	162	700	408
660	1000	710	1440	170	740	430
780	1060	750	180	180	780	456
900	1110	780	1550	189	820	477
1020	1160	820	1620	197	860	500

ANCHOR CHAIN



CLASSIFICATIONS

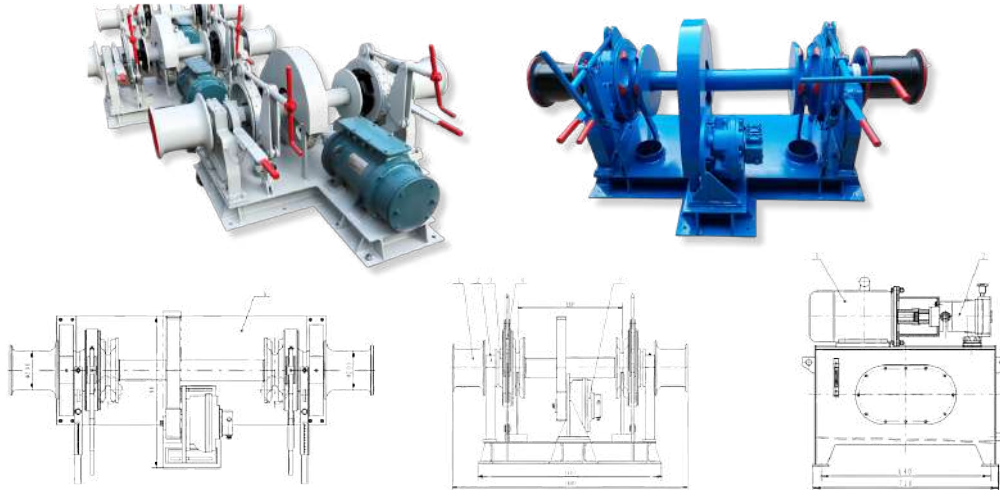


MOORING & MACHINERY DECK



ELECTRIC & HYDRAULIC ANCHOR WINDLASS - DOUBLE GYPSY

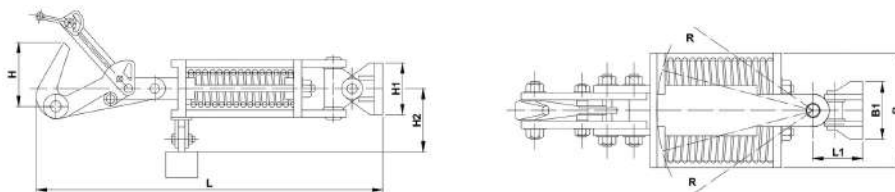
The Electric & Hydraulic Anchor Windlass that we produce are new products of the highest quality and have eligibility certification.



SPECIFICATION

Diameter	Chain Dia(mm)	Working Load (KN)	Supporting Load (KN)	Working speed (m/min)	Warping Load	Warping Speed (m/min)	Motor Power (KW)
Φ14/16/17.5	14/16/17.5	8.3/10.9/13.0	51/67/80	≥12	8	10	4.3/1.7
Φ19/20.5/22	19/20.5/22	15.3/17.9/20.6	95/110/126	≥12	10	10	8.5/3.5
Φ24/26	24/26	24.5/28.7	149/175	≥9	20	8.5	8.5/3.5
Φ26/28	26/28	28.7/33.3	175/202	≥9	20	8.5	11/11/7.5
Φ28/30/32	28/30/32	33.3/38.3/43.5	202/231/261	≥9	30	8.5	16/16/11
Φ32/34/36	32/34/36	43.5/49.1/55.1	261/294/329	≥9	30	8.5	16/16/11
Φ32/34/36/38	32/34/36/38	43.5/49.1/55.1/61.4	261/294/329/365	≥9	30	8.5	22/22/16

TOWING HOOK - DOUBLE SPRING



SPECIFICATION

Max. load (kn)	L (mm)	L1 (mm)	B (mm)	B1 (mm)	H (mm)	H1 (mm)	H2 (mm)	R (mm)	Weight (kg)
16	822	145	232	150	180	150	157	309	56.6
25	916	142	260	130	190	130	141	345	83.7
40	1180	184	330	208	270	228	189.5	445	177.9
63	1411	196	342	200	284	160	192	563	267.9
100	1710	253	410	260	376	250	256.5	684	558.1
160	1936	270	458	320	400	210	261	741	646.9
220	2448	324	560	310	490	300	310	952	1269.1

CERTIFIED CLASS



CENTRIFUGAL & GEAR PUMP



EBARA PUMP c/w ELEKTRO MOTOR

Size	65 X 50
Head	50m2
LPM	350
HP	4 - 5.5
Gear Motor	3 Phase Y2-112M-2
Speed	2900 RPM
Frequency	50 - 60 HZ
Voltage	220V - 380V



GEAR PUMP c/w ELEKTRO MOTOR

Size	2 inch
Gear Motor	3 Phase Y2-112M-2
HP	4 - 5.5



EBARA GSO

Capacities	to 1400m ³ /h
Heads	to 150 m
Temperatures	-30° to 150° C
pressures	Up to 16 bar (1.6MPa)



EBARA FSA 65 X 50

Liquid	Clean Water
Temperature	0 - 80° C
Suction Size	65 mm
Discharge Size	50mm



EBARA GSS

Max Capacity	1300 m ³ /hr (50Hz) 1500 m ³ /hr (60Hz)
Max Head	150 m
Temperature	-10° C - 40° C
Max Pressure	25 Bar



KOSHIN GEAR PUMP

Size	1 - 2 Inch
CAP	Vol 55 LPM
Speed	400 RPM



EBARA PUMP 80 SQPB

Debit	0.7 m ³ / min
Head	9-13016-20 M
Speed	1750 - 2100 - 2300 - 2500 RPM
Power	2.2 - 3.7 - 4.5 - 5.5



NAV & COM EQUIPMENT



Our navigation equipment is built with advanced technology and precision, providing reliable data and real-time information to help you navigate safely and efficiently.



**FURUNO GPS Navigator
Model GP-39**



**FURUNO VHF Radio
Telephone
Model FM-4800**



**FURUNO Color LCD
Radar Model L1815**



**FURUNO Color LCD
Fish Finder FCV-688**



**GARMIN Marine Echo
Sounder - GPS Map
585 Plus**



**GARMIN FF350 Plus
with GT20 TDX**



**GARMIN Marine Radar
Aquamap 1022**



**ICOM MF/HF Marine
Transceiver IC-M803**



**ICOM AIS CLASS B
MA-510TR**



**ICOM RADAR
MR-1010R11 / MR220**



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MARINE ADVISORY SERVICES

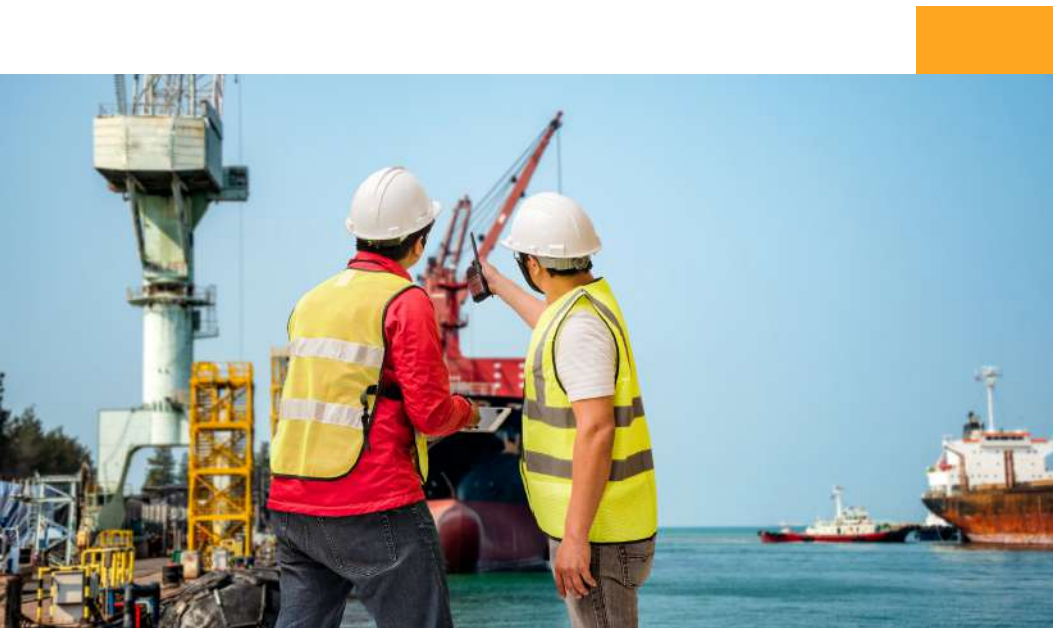
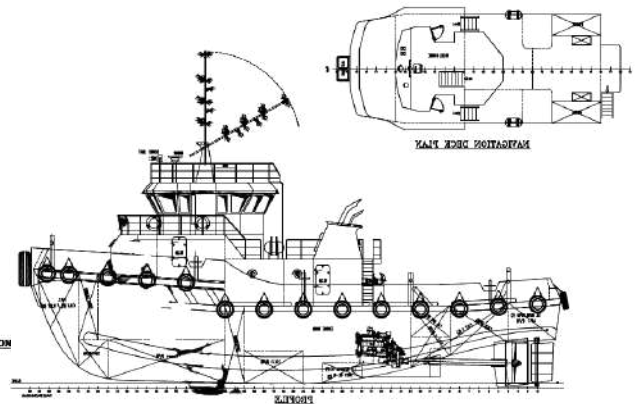
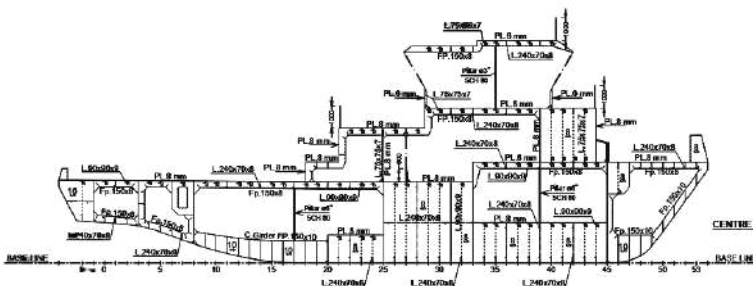
With our marine engineer teams, we are confident to provide consultancy services for your shipbuilding or any maritime needs.

From newly-build drawing to surveyor services, we prioritize to offer:

- **NEWLY BUILD DRAWING** (GA, Construction, Interior, Power Systems)
- **MARINE SURVEYOR**

We are your one-stop solution to procure your offshore/docking needs :

- Navigation
- Communication
- Crew Room
- Sanitary
- Welding Tools
- Galley Kitchen Set
- Switchboard
- Lighting
- Sensors



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BRAND PARTNERS



CLASSIFICATIONS



CERTIFICATES



RFQ TO US IF YOU ARE ...



INQUIRY? CONTACT US

Business License No. 8120004852977

Tax ID/NPWP No. 71.777.530.8-618.000 (PKP)



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PT SERATA MAKMUR RAYA

SERATA
GROUP