



PT. ANTAKESUMA INTI RAHARJA

# DIESEL ENGINE PARTS AND SERVICES

CERTIFIED ISO 9001:2015



GEARBOX SUPPORTED

  **REINTJES FLENDER**  
POWERTRAIN SOLUTIONS

DIESEL ENGINE SUPPORTED



Since 1997, PT. Antakesuma Inti Raharja has become the leading service provider for advance propulsion and marine system in Indonesia.

The marine and railway industry in Indonesia have allowed us to grow, expand and garner trust among the top industry players.



## THE QUALITY POLICY

PT. Antakesuma Inti Raharja prioritizes customers' satisfaction in diesel engine services by implementing international standard quality management with certified ISO 9001:2015 from DQS and improving employees competency to achieve global standards.



► Certified MTU



► Certified MarineDiesel



PT Antakesuma Inti Raharja has been established in Surabaya, committed 24/7 of reliable service and technical support to customers all over Indonesia with its complete stock of major spare parts.



## THE SERVICES WE OFFER :

1. Experienced engine and electronics experts for assistance in installation, commissioning and repowering.
2. Engine maintenance, based on condition and preventive maintenance.
3. Training for your operation, service and workshop personnel.
4. Guaranteed prompt and reliable supply of genuine spare parts.
5. Worldwide onsite support.

# WORKSHOP



In our 3000m<sup>2</sup> certified workshop, PT. Antakesuma Inti Raharja provides diesel engine maintenance, overhaul, and general repair. Our workshop is fully equipped with the heavy duty common rail injector test, testing and calibration injection system, machineries and special tools to support customers as one stop service.



## Test Bench



Common Rail Injector Test



Calibration Injection Pump in Line



Calibration Injection Pump Single



Governor Calibration

## Machineries



Conrod Bore Cutting



Valve Seat Cutting



Sand Blasting Machine



Lathe Machine with DRO



We are ready to supply spare parts for marine and railway engines. For better convenience to our customers, we provide online shopping system.

We offer professional packaging and logistics services, using high-quality materials and experienced personnel to ensure your spare parts arrive safely and securely.



## Online Shop

**The online shop for spare parts**

Find the right spare part in our catalog product and order it conveniently online from everywhere.

Please visit

[www.antakesuma.com](http://www.antakesuma.com)



## Products for Marine Propulsion Systems

ZF Marine offers a comprehensive range of azimuth and tunnel thruster solutions for commercial and fast vessels. A power range from 100 kW to 2,000 kW can be matched with either diesel, electric or hydraulic prime movers.

### Thrusters



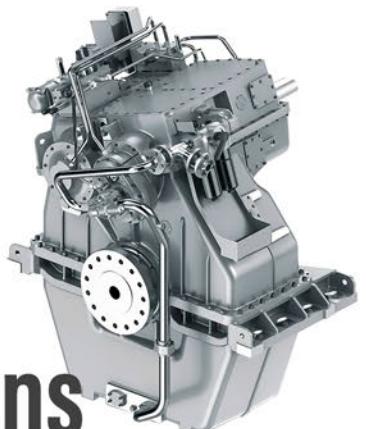
The range of fixed pitch propellers from ZF Faster Propulsion are suited for a wide variety of pleasure craft applications including sport fishing boats, cruisers, motor yachts, as well as for many commercial applications.

### Fixed Pitch Propeller



### Transmissions For Fast Craft

Propulsion systems for large yachts, fast ferries and vessels for naval, customs and coastguard. For the development of transmissions for fast craft, compliance with stringent environmental and technical specifications is ensured in order to meet the requirements of safety, availability and reliability.



### Transmissions For Commercial Craft

ZF offers robust transmissions with a power range up to 12,000 kW for a variety of commercial applications, such as freighters, tugs, workboats and tankers.


**SCANIA**

# MARINE POWER

## Empower Your Operation

Scania offers 13 and 16 litre engines that deliver 400 to 1,000 hp and provide superior performance and maximum stability with impressively good fuel economy. These engines were designed to carry out heavy-duty and rigorous tasks. Scania engines are also known in the industry for their unsurpassed torque.

**ENGINE TYPE**  
Propulsion

**OUTPUT RANGE**

Up to 1150 hp ( 846 kW )

**DISPLACEMENT**

9.3 Litres, 12.7 Litres, 16.4 Litres

**COMPLIANCE**

Scania's marine engine are certified to a number of different emission regulations.


**ENGINE TYPE**  
Auxiliary

**OUTPUT RANGE**

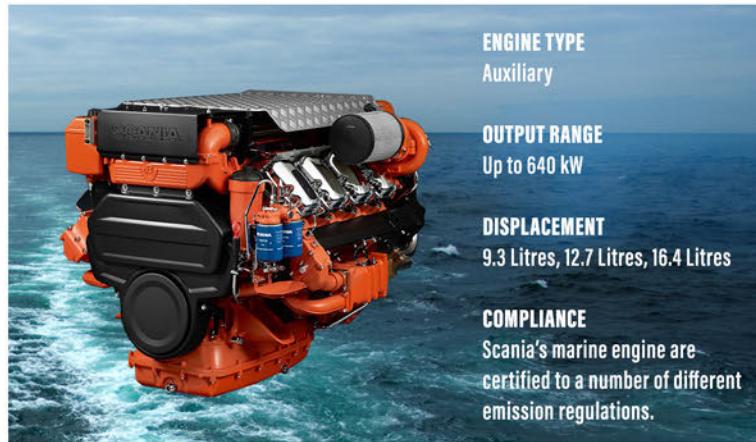
Up to 640 kW

**DISPLACEMENT**

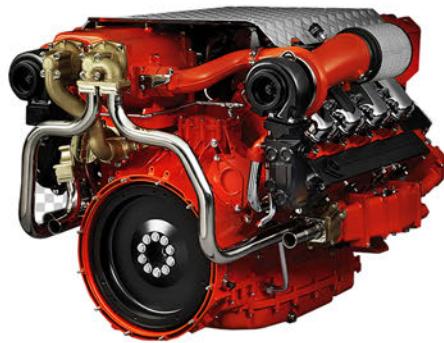
9.3 Litres, 12.7 Litres, 16.4 Litres

**COMPLIANCE**

Scania's marine engine are certified to a number of different emission regulations.



Scania offers three categories of modular marine engines with power ranging from 220 to 1,000 hp and a 5, 6 and 8 cylinder range.


**DI 9**
**9-Litre Engines**

Configuration	5 in line
Swept Volume	9.3 litres
Fuel Injection Control	Scania PDE, Unit Injector
Output Range Propulsion	162 - 294 kW (220 - 400 hp)
Output Range Auxiliary	199 - 269 kW at 1500 rpm 199 - 323 kW at 1800 rpm

**DI 13**
**13-Litre Engines**

Configuration	6 in line
Swept Volume	12.7 litres
Fuel Injection Control	Scania PDE, Unit Injector, XPI
Output Range Propulsion	294 - 680 kW (400 - 925 hp)
Output Range Auxiliary	323 - 376 kW at 1500 rpm 376 - 426 kW at 1800 rpm  426 kW at 1500 rpm 426 kW at 1800 rpm

**DI 16**
**16-Litre Engines**

Configuration	V8
Swept Volume	16.4 Litres
Fuel Injection Control	Scania PDE, Unit Injector, XPI
Output Range Propulsion	405 - 882 kW (550 - 1200 hp)
Output Range Auxiliary	430 - 480 kW at 1500 rpm 468 - 553 kW at 1800 rpm  511 kW at 1500 rpm 596 kW at 1800 rpm

**KOHLER**  
IN POWER. SINCE 1920.

# MARINE GENERATORS

Kohler Marine generators bring industry leading technology and unparalleled reliability to marine gensets. From 5kw to 500kw, radiator and keel cooling, sound attenuating enclosures and compact frames these generators are built to keep you powered. Kohler Marine Generators are the only generators on the market with built in paralleling capabilities and load management automation. All major class certifications available (DNV, Lloyds, ABS, BV).



## Standart Options

- Optional sound enclosures
- 60/50 Hz compatible (6 to 500 kW)
- 12- or 24-VDC start
- Heat exchanger, keel, or radiator cooling
- Ignition protection (6 to 40 kW)
- CAN communication
- Remote panels with monitoring
- Port and starboard side connections (14 to 40 kW)
- PGEN—automatic paralleling (14 kW and above)
- PGEN—auto Transfer from generator to generator
- Third-party classification available



### PLEASURE CRAFT

kVa	6 - 250
Engine	John Deere Engine
Controller	DEC3500
Features	Short-circuit capability
Certificates	DNV, Lloyd's Register, BV & ABS

### COMMERCIAL VESSEL

kVa	41 - 219
Engine	Kohler Engine
Controller	DEC3500
Features	Delivers Excellent Voltage Response
Certificates	DNV, Lloyd's Register, BV & ABS

### 350EOZCS TO 500EOZCS

kVa	438 - 625
Engine	Scania Engine
Controller	DEC3500
Features	Low Voltage & Frequency Regulation
Certificates	DNV, Lloyd's Register, BV & ABS

# REPOWERING

## Indonesian Navy " Parchim Class " KRI Hasan Basri

### "Parchim Class" KRI Hasan Basri

#### REPOWERED TO

Power	2720kW @2100rpm
Engine Type	MTU 16V4000 M90
Injection System	Common Rail



## Indonesian Navy FPB 57



### KRI Layang FPB 57

#### REPOWERED TO

Power	3925kW @1750rpm
Engine Type	MTU 16V595 TE
Injection System	Common Rail



## Indonesian Railway Company

### Locomotive Engine

#### REPOWERED TO

Power	1380kW @1500rpm
Engine Type	MTU 12V4000 R41R
Injection System	Common Rail

# NEW BUILD AND COMMISSIONING

Indonesian Navy



Fast Missile Boat 60M Class

Sampari Class ( KCR-60 )

MTU 4000 Series

KRI Sampari

KRI Tombak

KRI Halasan

KRI Kerambit

Indonesian Navy



Corvette Frigate Class

3 X FIBRE VESSEL 30M

POWERED WITH MTU 3 X 8V2000M72

BLUE LINE Automation System



Indonesian SAR Vessel

BC 38M



POWERED WITH MTU 16V4000M90

BLUE VISION Automation System

Indonesian Customs

## THE EQUIPMENT PROVEN APPROPRIATE FOR THE MARINE INDUSTRY

**MAN**  
MARINE ENGINE  
FOR MEDIUM DUTY



## ZF GEARBOX



## ZF THRUSTER SYSTEMS



## GENERATOR SETS



### Application References



**KAL Tedung**  
Engine Type : MAN D2842 LE410



**KNP. 378 Class III 28M**  
Gearbox Type : ZF 3000



**Kapal BRS ( Hospital Ship )**  
Thruster Type : ZF TT 5000 CP



**KRI Spica 934**  
Generator Type : Caterpillar C9

# OUR SALES ENGINE PRODUCTS



**ANGLO BELGIAN  
CORPORATION**

We power your future



**6 / 8 DL36**  
(3900 - 5200 kW)



**6 / 8 DZC**  
(600 - 2000 kW)



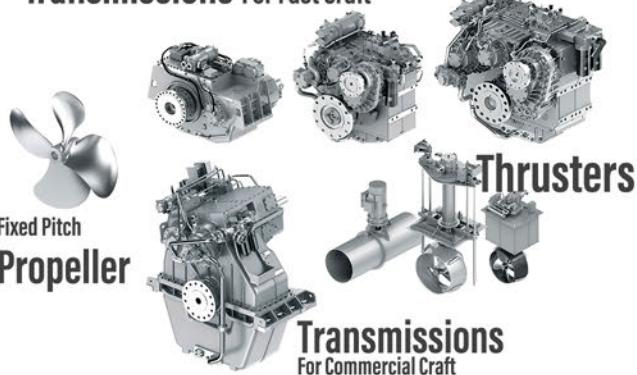
**12 / 16 (V) DZC**  
(2000 - 4000 kW)

**MARINE ENGINE**  
POWER & PROPULSION SOLUTIONS



**Products for Marine  
Propulsion Systems**

**Transmissions For Fast Craft**



Fixed Pitch  
Propeller

**NAVILUS  
MARINE  
GEAR UNITS**



**CATERPILLAR®**

**GENERATOR SETS**



**MAN**  
MAN Energy Solutions



**MAN 175D**

**Perkins**



**Perkins  
Electric Power Generation**

**Cummins  
Generators**



**PT. ANTAKESUMA INTI RAHARJA**

## Head Office & Workshop :

Jalan Margomulyo Permai Blok CC No. 11  
Surabaya 60184 - Indonesia  
Telp : (031) 7482430 - 32  
Fax : (031) 7481224  
Email : ptair@antakesuma.com  
Website : www.antakesuma.com  
WhatsApp : +62 81 222 998 991

## Branch Office :

Gandaria Office 8 Level 17 ABC  
Jalan Sultan Iskandar Muda Kav-8  
Kebayoran Lama, Jakarta Selatan  
12240 - Indonesia  
Telp : (021) 29036612 - 14  
Fax : (021) 29036615