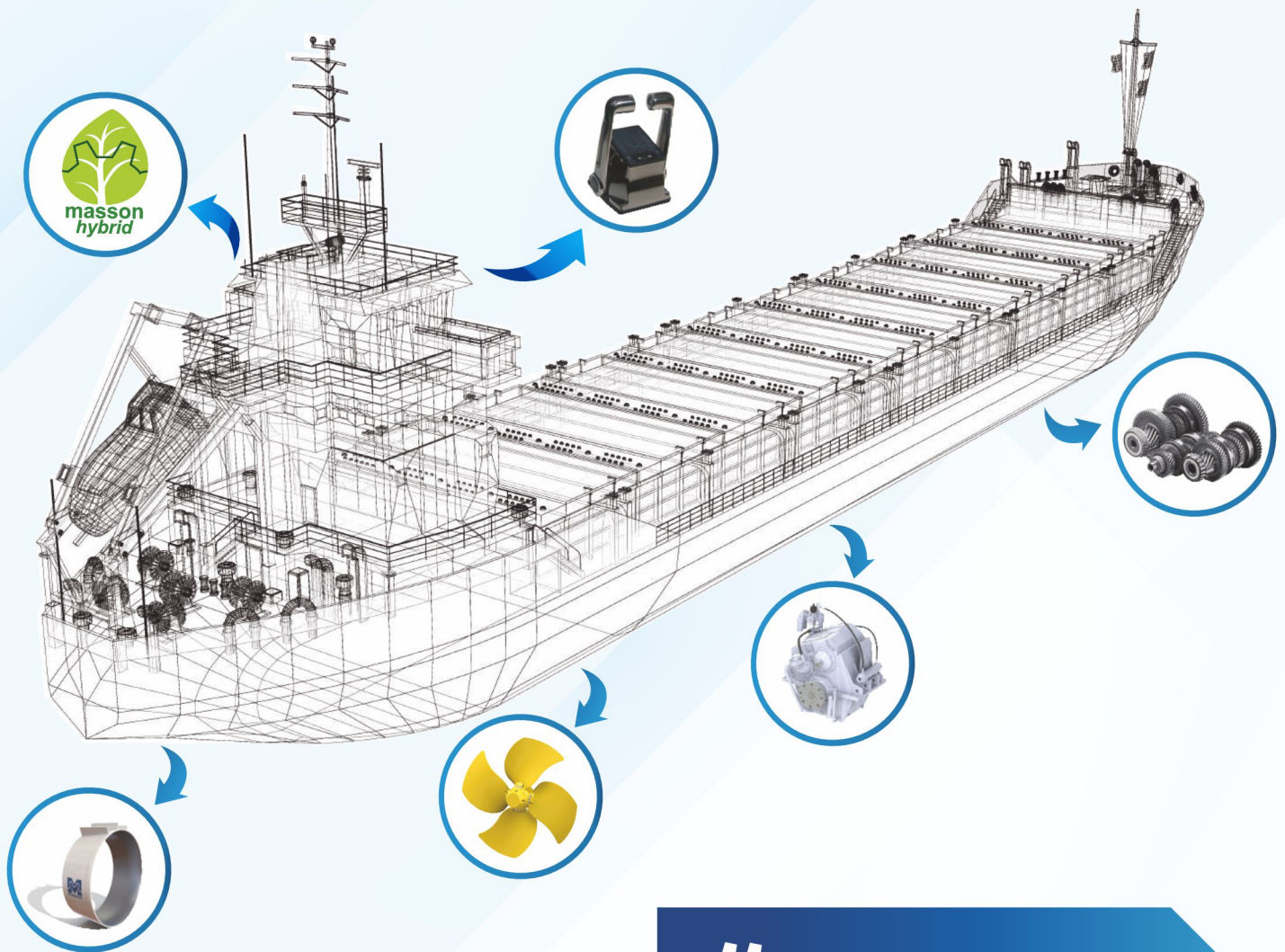

PROPULSION MAKER SINCE 1908



COMPANY PROFILE

QUALITY | RELIABILITY | PERFORMANCES



“

Masson Marine is committed to his customers and will do everything to fulfill its engagements.

Masson Marine, as a leader in Marine Propulsion Technology, designs, manufactures in France and commissions a full range of marine gearboxes with hybrid systems, brakes whether integrated or external, shaft lines and controllable or fixed pitched propellers.

Our engineering team skilled with both marine and mechanical engineers achieves the best products designed for your specific needs. We are internationally renowned for over 110 years for the reliability and durability of our products.

Masson Marine offers a wide range of high quality and high performance products adapted to all propulsion systems (Diesel, Gas, Electric).

Our reduction gearboxes and propellers comply with the quality standards of all major brand engine manufacturers all over the world.

Masson Marine is proud to provide a high-efficient marine propulsion system, helping ship owners and operators to optimize operation costs and reduce time for maintenance operation. A wide range of different ship types are propelled and served by Masson Marine: more than 28.000 Masson Marine gearboxes and 1.000 Controllable Pitch propellers on various ships that are operating around the world.

1908

Establishment of the company in Courbevoie (near Paris).



1980's

Integration to MAN/ Renk group, as SEE (Société Européenne d'Engrenages).



2006

Establishment of the independent company Masson Marine SAS. Integrated to Azimuth Group.



2016-17

Enlargement of the range W1900 series & W2900.



1970's



Integration to Pont-a-Mousson group (PAM) transfer of the company to Saint Denis lessens.

2000's



Integration to ZF Marine group, as ZF Masson Development of the Controllable Pitch Propellers.

2011



Development of the first hybrid solution.

2018



Products in development.

THE RANGE THAT YOU NEED

QUALITY | RELIABILITY | PERFORMANCES

1 Quality Culture

Strong R&D backed by 110 years of experience.
High quality control for each critical parts.
Complying with the most important classification societies.
Our products offer the highest level of durability over time.

2 Hybrid Solutions Available

PTO (Power Take Off).
PTI (Power Take In).
Dual speed gearbox.

3 The full range of our products is available on request in our selection guide. Cinematics

Reduction gearboxes.
(NR) Non Reversing.
Horizontal or Vertical offset and (C) Coaxial.
(EW) Engine wise.
(CEW) Counter Engine Wise.
(NC) Non Clutchable for electric engine.
Twin input / Single output.

4 Options Available

Trolling Valve.
Trailing Pump.
Bell housing (1,0,00).
Integrated shaft brake.
Classification.
Coupling.
Deep ratio solution, up to 15/1 for low propeller RPM for maximum thrust and efficiency.

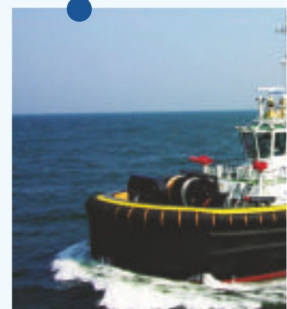
**OUR PRODUCTS CAN HAVE
TYPE APPROVAL OR FULL CLASS
FROM THE MAIN CLASSIFICATION
COMPANIES (IACS)**



YACHT



PATROL BOAT



RANGE FROM 200 HP TO 5000 HP

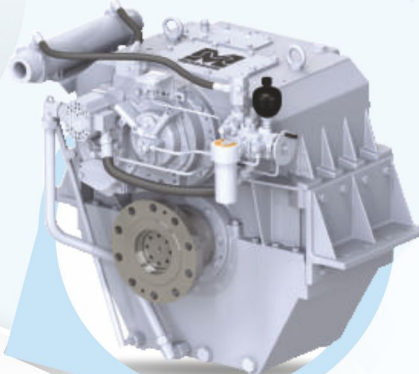
06

Merlin ML 415
1435 HP @2300 RPM



01

MM W4400
1500 HP @2100 RPM



05

Merlin ML 180
578 HP @2500 RPM



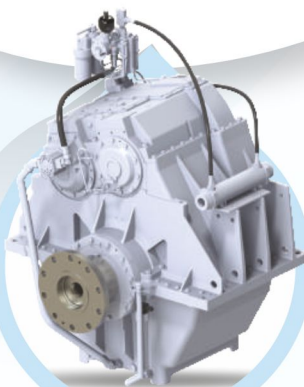
02

MM W5200
1720 HP
@2100 RPM



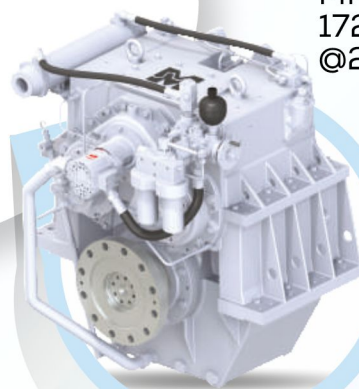
04

MM W 20500
5130 HP @ 1800 RPM



03

W7400
2285 Hp @ 2100 RPM



TUG BOAT



INLAND VESSEL



FISHING BOAT



PACKAGE SOLUTION OF MASSON MARINE

QUALITY | RELIABILITY | PERFORMANCES

Masson Marine designs, manufactures and commissions the whole propulsion system from the engine fly wheel to the blades, including gearbox, shaft, propeller, sterntube, remote control system.

1 Fixed Pitch Propellers (FPP)

Masson Marine has many years of experience in propeller design. We are able to customize your propeller to ensure the optimum performance both in terms of thrust and efficiency.

2 Controlable Pitch Propellers (CPP)

Nowadays, ships are polyvalents and sail under several modes of application, CP Propellers are perfectly matching with vessels requiring different propulsion conditions for speed, thrust or maneuverability.

They offer many technical and commercial advantages:

Higher efficiency than a FPP (up to 25% thanks to variable pitch).

Better maneuverability (from ahead to astern without de-clutching)

Full power available under all conditions

3 The benefits of the package solution

Turnkey solution for the propulsion offers many benefits from **conception** to **commissioning** and for the **complete vessel's life**.

"One-stop" solution for project management.

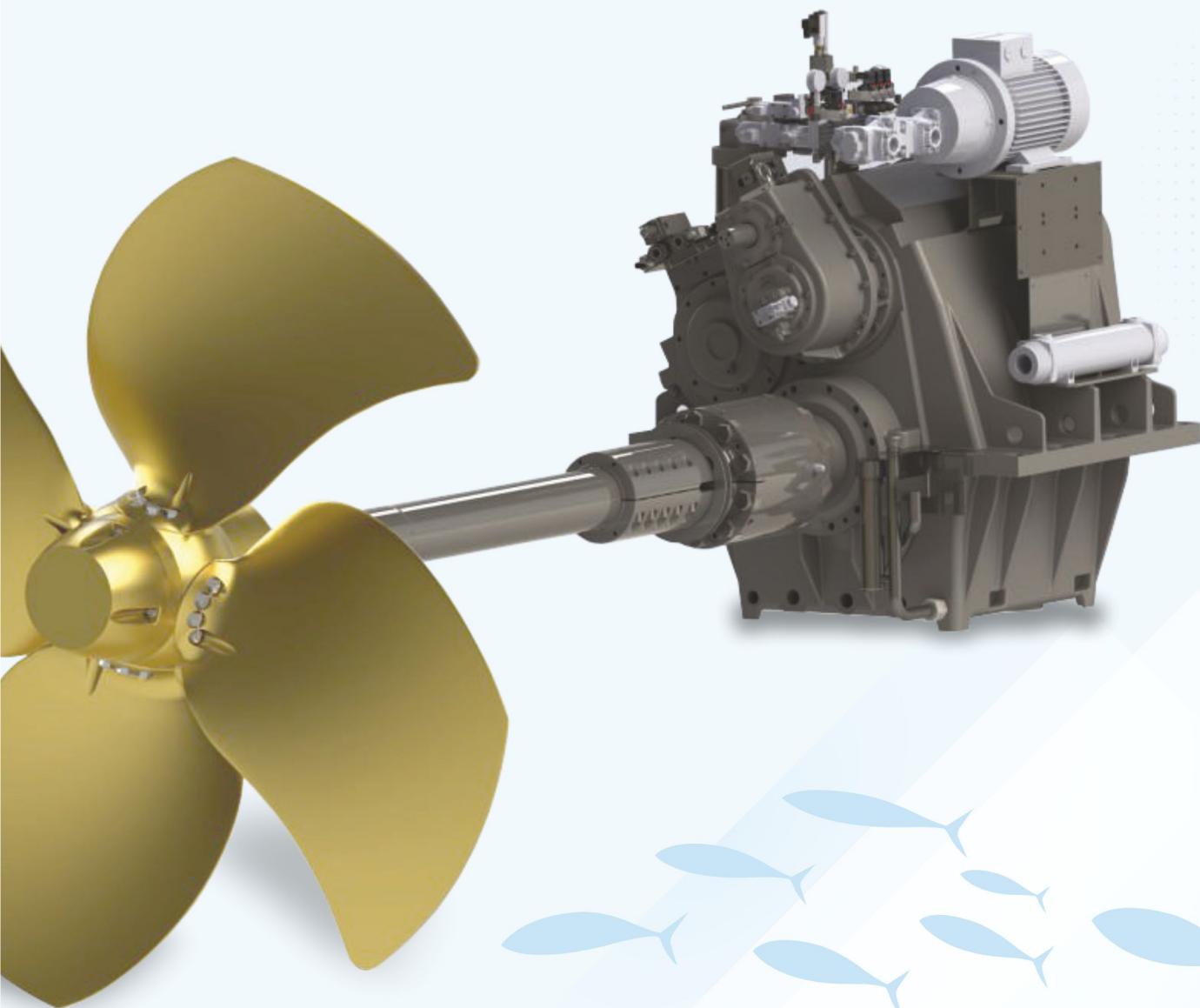
Optimized design with ratio selection and propeller design.

3 Available Configuration

Oil or Water lubricated

Open or ducted propeller (Nozzle)

4 or 5 blades (on demand)



EPI SUCESSO (Tug Boat)

Engines: 2 x CAT 3512B - 2600HP
 Gearboxes: 2 x MM W7400
 Propellers: FPP



AN KANG (Towing Tug)

Engines : 2 x GE 8V-228-900 rpm
 Gearboxes : 2 x MM W18000 NR
 Propellers : 2 x CPP MMS 640
 Shipyard : SLS Korea

INNOVATIVE SOLUTION HYBRID SYSTEMS

QUALITY | RELIABILITY | PERFORMANCES

1 Power Take Off

From 250 Nm to 5300 Nm.

Up to 3 outputs (live or clutchable).

Wide possibilities of output (swing bridges, nets, water pumps, generators).

Can replace engines aboard the boat.

2 Power Take In

Additional power input for the propulsion line.

Increase global compacity of transmission system.

Integrated solution leading to save fuel and installation costs.

Accept additional electrical or diesel engines ("Father & Son" application).

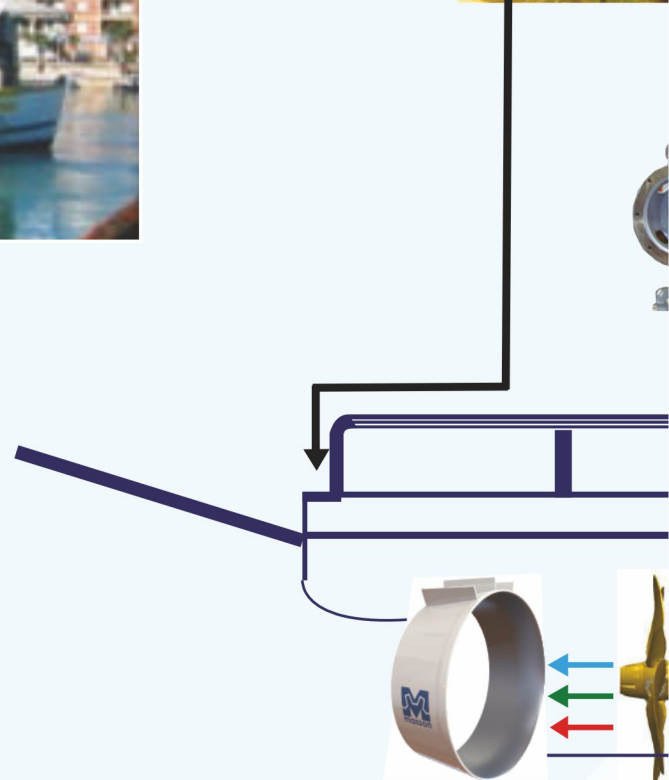


DUAL SPEED

A Dual Speed (DS) gearbox allows you to have one gearbox with 2 ratios: Adaptable to a larger number of working conditions. Gain of space.

Leads to fuel saving as the engine is working at maximum efficiency more often.

Simple Output





KRI RIGEL & KRI SPICA (Hydrographic ships)
 Owner: National navy of Indonesia
 Gearbox: MM W6400 + PTI 2 x Sets
 Engines: Electric + Diesel
 Equipment: Trolling mode + Shaft
 Brake Integrated

3 CHOICES OF WORKING MODE

(1)

Diesel Mode with PTO: the propeller is driven by the diesel engine and the PTO is used for the generator set.

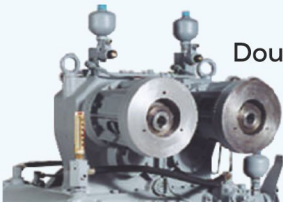
(1)+(2)

Booster mode with PTI: both the diesel engine and the e-motor power are combined to offer higher torque to the propeller for higher speed or thrust.

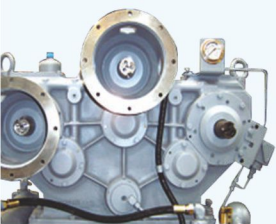
(2)

Electrical mode: the propeller is driven by an electric motor through the PTI low speed sailing.

Double Output



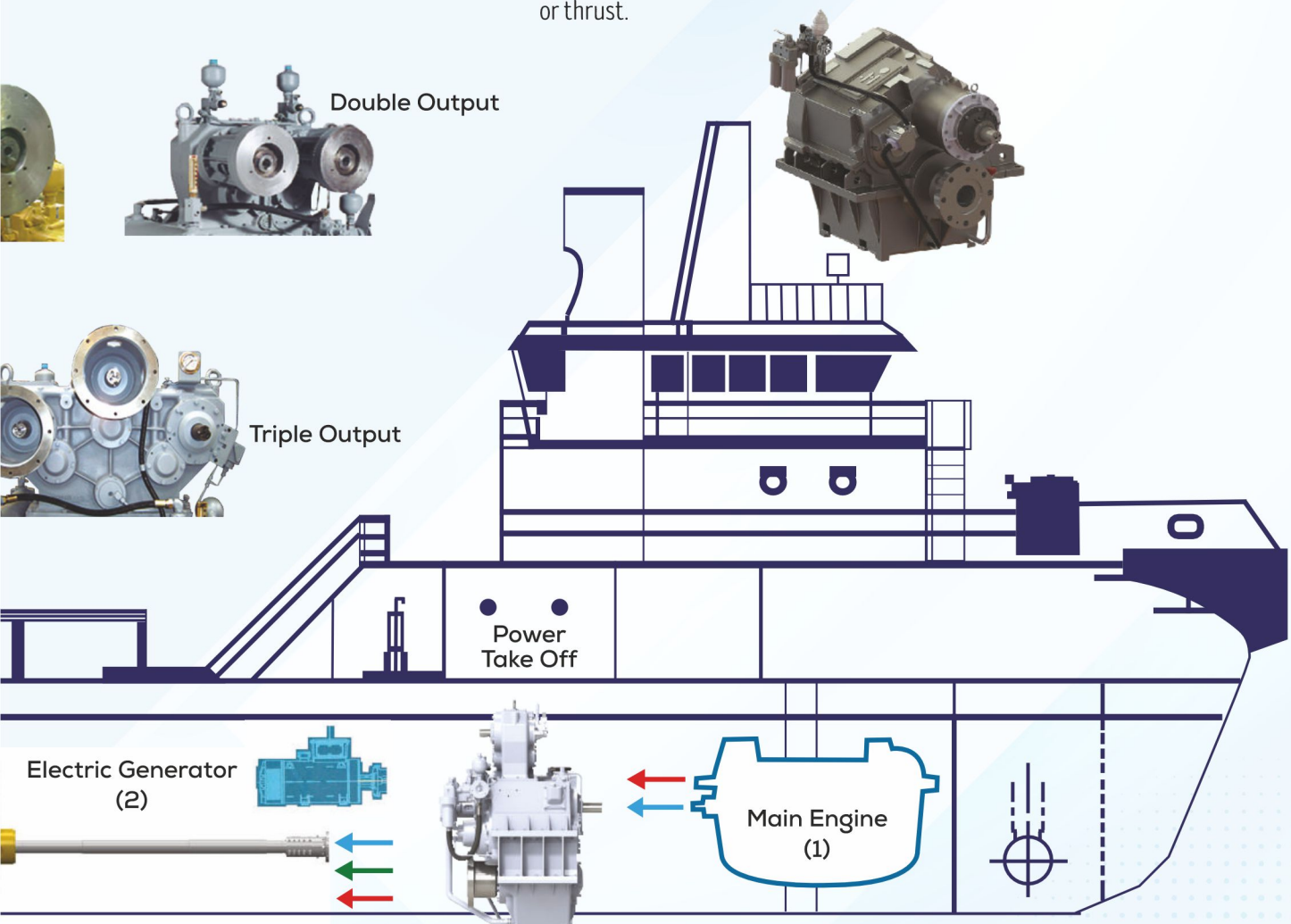
Triple Output



Power
Take Off

Electric Generator
(2)

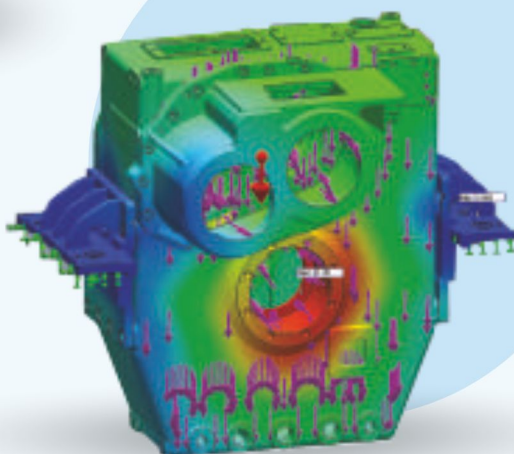
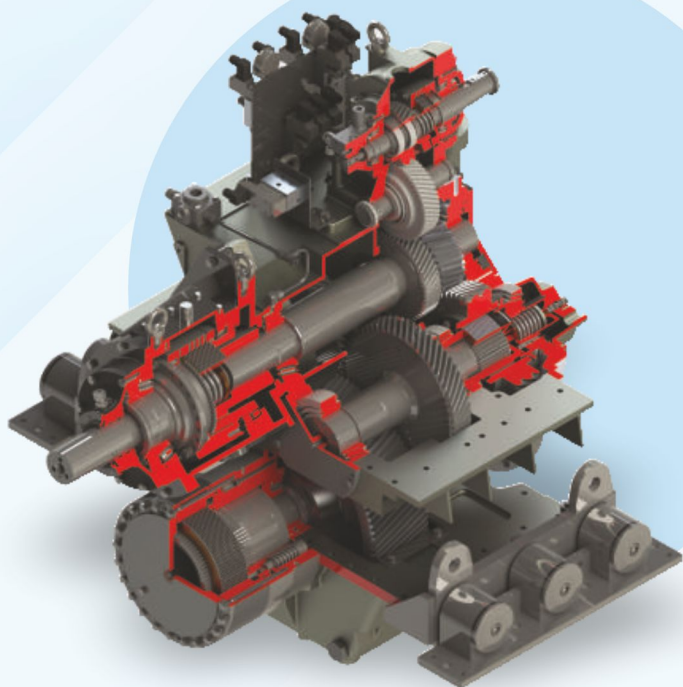
Main Engine
(1)



EXPERTISE

QUALITY | RELIABILITY | PERFORMANCES

A new level of control performance for inboard, outboard or stern - drive engines. Masson Marine put its expertise at your service. Our experience is fully turned to satisfy your needs. Our team and R&D engineers are both competent in terms of mechanical and maritime engineering and will bring all the solutions to give you the best product.



Our expertise goes from the calculation with dedicated software to the marine engineering inside the vessel.

SERVICE

QUALITY | RELIABILITY | PERFORMANCES

Masson Marine builds and assembles gearboxes from A to Z. Regular maintenance of your equipment is vital for its lifetime.

Our experienced service network is available worldwide and benefits from the support of our skilled. After Sale & Service department. To ensure the optimal operation of your Masson product, please refer to our maintenance schedule or to your nearest service partner for more details.

AFTER SALES

Worldwide Service Network (>30 dealers).

Easy Maintenance (no specific tool required).

Large stock of spare parts.

Dedicated In-House Qualified Team supplying:
Technical analysis.

Spare parts recommendation.

Workshop manual.

Dedicated Warehouse & Shipping Process.



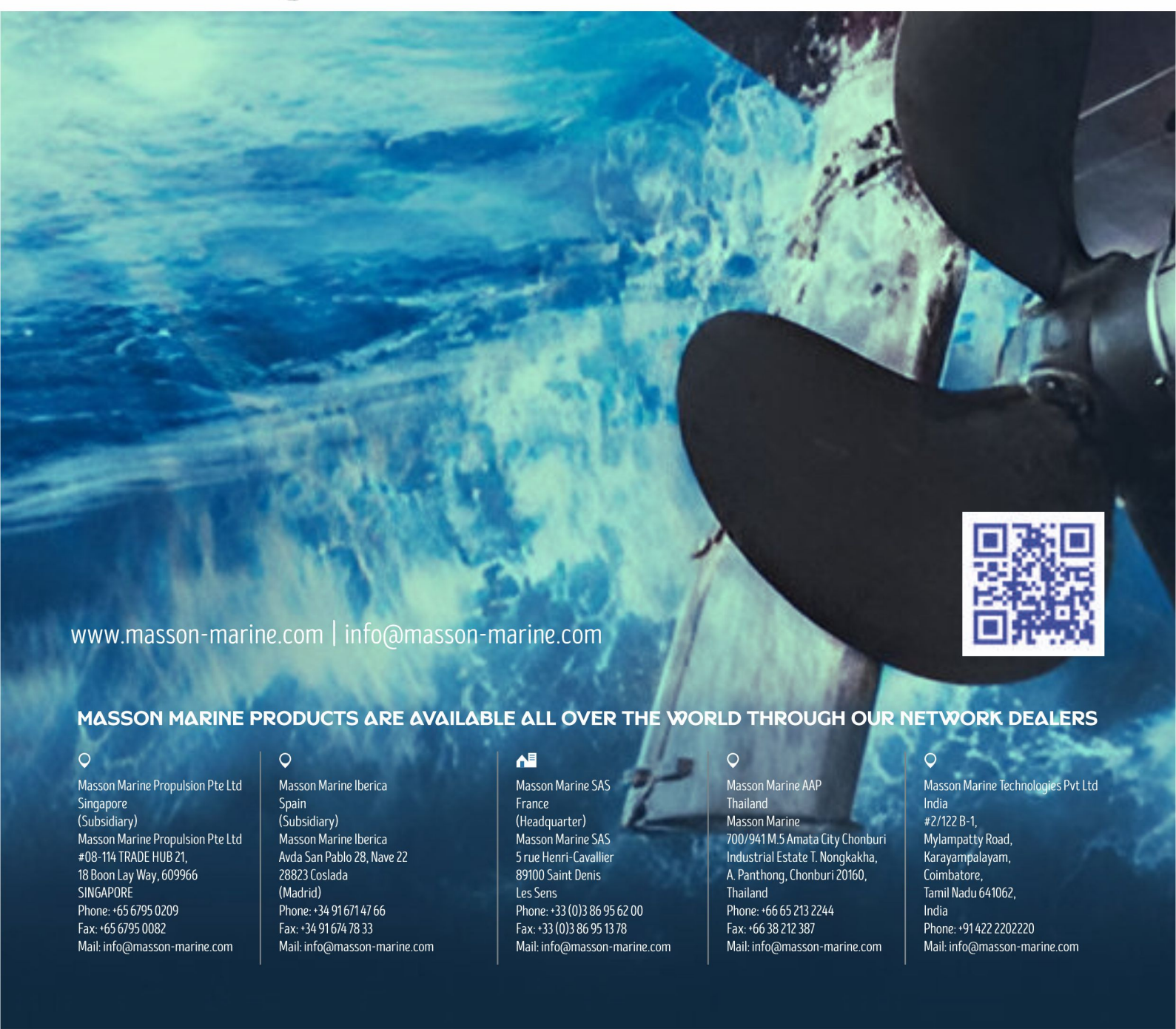
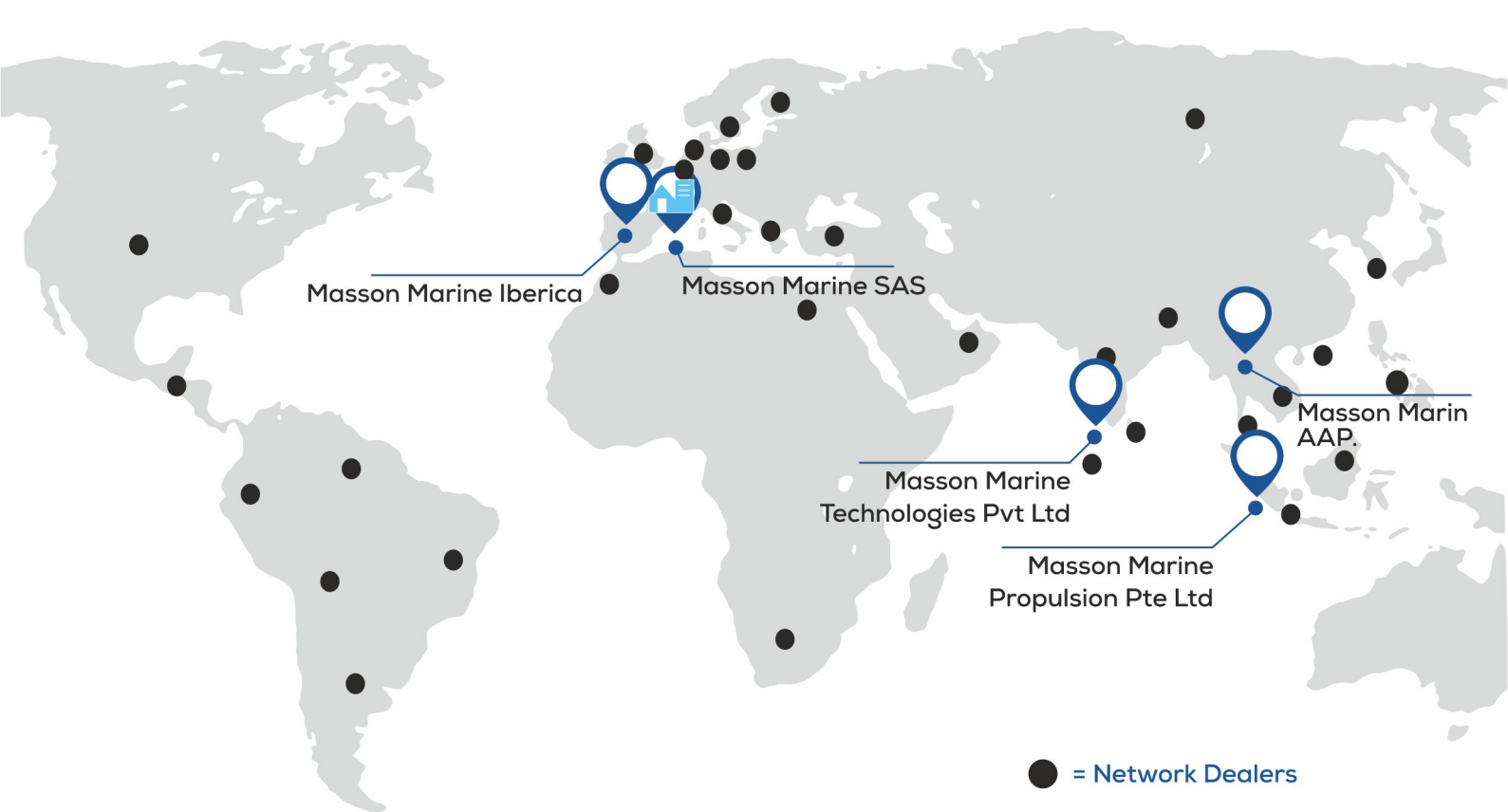
A key factor for our products long life...



Product	Function	Breakdown consequences	Recommended replacement
Oil Filter	Maintains clean oil	Damages the bearings	(Cleaning : 500 h) 2 500 h
Accumulator	Allows smooth function of clutch command	Damages the clutch	15 000 h
Seal Kit	Maintains sealing	Leakages	15 000 h
Oil Cooler	Maintains oil temperature	Clutch Disc premature wear	15 000 h
Clutch Discs	Maintains positive clutch engagement	Slippage	20 000 h
Hydraulic Pump	Maintains oil pressure	Immobilization of the boat	20 000 h

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MASSON MARINE PRODUCTS ARE AVAILABLE ALL OVER THE WORLD THROUGH OUR NETWORK DEALERS



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