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.

Masson Marine is committed to his customers and will do everything to fulfill its engagements.
**THE RANGE THAT YOU NEED**

**QUALITY    RELIABILITY    PERFORMANCES**

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

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

**Range From 200 HP to 5000 HP**

- **Merlin ML 415**
  - 1435 HP @ 2300 RPM

- **Merlin ML 180**
  - 578 HP @ 2500 RPM

- **Masson MM W4400**
  - 1500 HP @ 2100 RPM

- **Masson MM W5200**
  - 1720 HP @ 2100 RPM

- **Masson MM W7200**
  - 2285 HP @ 2100 RPM

- **W7400**
  - 2285 HP @ 2100 RPM

**Hybrid Solutions Available:**
- PTO (Power Take Off).
- PTI (Power Take In).
- Dual speed gearbox.

**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.

**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

**Our products can have type approval or full class from the main classification companies (IACS)**

- Yacht
- Patrol boat
- Inland vessel
- Fishing boat
- Tug boat
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.

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.

**Fixed Pitch Propellers (FPP)**

**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

**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

**EPI SUCESSO** (Tug Boat)

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

**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.
### 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.

### Power Take In:
- Additional power input for the propulsion line.
- Increase global capacity of transmission system.
- Integrated solution leading to save fuel and installation costs.
- Accept additional electrical or diesel engines ("Father & Son" application).

### 3 choices of working modes
- **Diesel Mode with PTO:** the propeller is driven by the diesel engine and the PTO is used for the generator set.
- **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.
- **Electrical mode:** the propeller is driven by an electric motor through the PTI low speed sailing.

### Equipment:
- **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

### Innovative Solution
- **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.

- **HYBRID SYSTEMS**
- 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.
CONTROL

Quality Reliability Performances

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.

Controller

Quality Reliability Performances

Control systems are a perfect answer to smooth and easy shift and throttle control suitable for most applications, modern styling, various color/finish control head options, single to quad engine capability. Designed specifically to meet the performance, reliability endurance and aesthetic requirements of today’s modern boats.

PROPELLER PUMP & NOZZLE

Quality Reliability Performances

The Masson Marine propeller pump is a combination between stator (done with 7 blades) and a rotor (optimized propeller).

The water flow is pre-rotated and accelerated by the stator before being in contact with the propeller.

It leads in a better spread of the pressure on the whole surface and can increase the total propulsion efficiency by 15%, keeping the same propeller diameter.

The nozzle is a device used for ducted propellers in order to increase the speed of the flow around the propeller. This device leads to an increase of 20% of the thrust for the same size of propeller.

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.
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Masson Marine products are available all over the world through our Network dealers