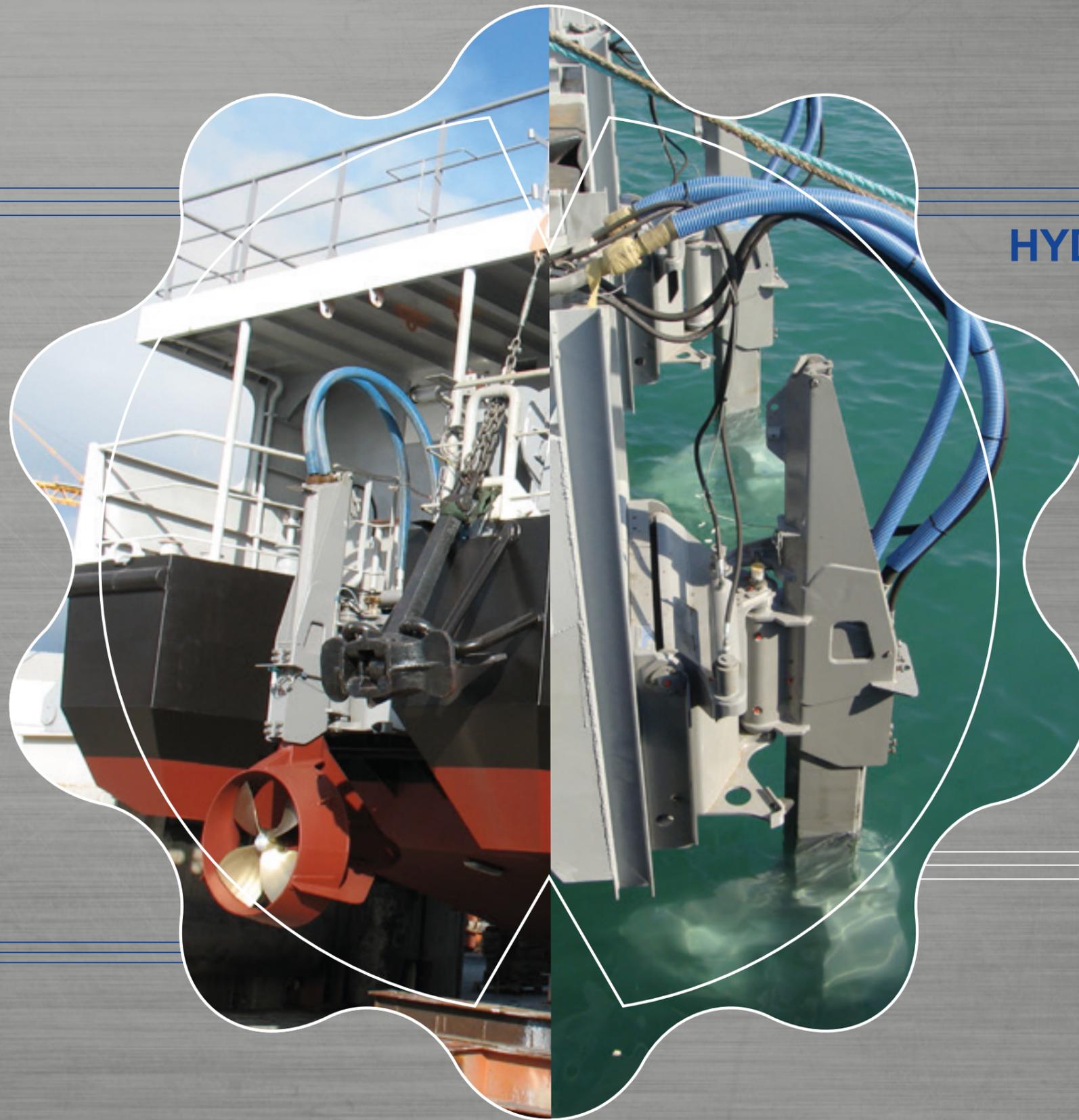




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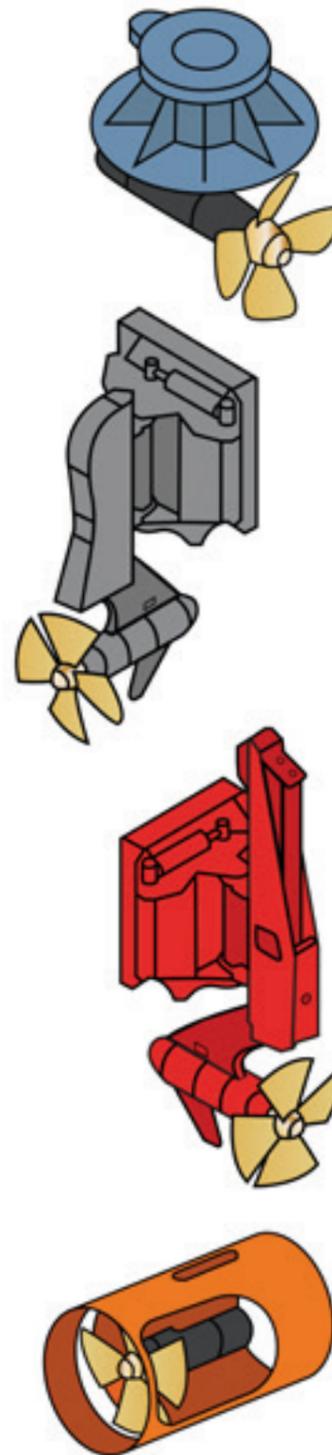
Hydro-Armor, which was established in 1968, has already supplied and installed thousands of hydraulic units over the years. Sometimes under the most extreme conditions, such as in Arctic or tropical areas. These units are produced in Hydro-Armor's own factory in the westernmost tip of France.



### The advantages of hydraulics

Slowly but surely, more and more shipyards, boat owners and skippers are opting for hydraulic rudder propellers above mechanical units. This is not so strange given the many advantages of hydraulic systems.

- **Significant cost savings.** Cheaper to purchase, cheaper to maintain and repair.
- **Less damage.** No bevel gears, no drive shafts, special seal system. Equipped with shear pins, very solid construction, even suitable for Arctic conditions.
- **Shorter delivery times.** Thanks to an advanced production process and ample stock.
- **Simple, quick and easy to assemble.** Plug-and-play system, assembly without alignments. Can be installed at any height, even entirely submerged in seawater.
- **Greater flexibility on-board.** Besides the propeller, with a hydraulic power pack you can also power other systems, such as a crane, a winch or even a generator. As a result, you need fewer diesel engines to do the same thing.
- **Optimal manoeuvrability.** From full steam ahead to full astern in 2 seconds. Quick steering, ideal for dynamic positioning.
- **Super-compact, high efficiency, long life, good performance.**
- **Low noise level.**
- **Can also run on bio-oil.**
- **Choose for yourself where to install the engine.**



### Hydraulic well mounted rudder propellers

With a compact, well mounted rudder propeller you can manoeuvre quickly without being troubled by obstacles at the rear of your ship.

Our hydraulic well mounted rudder propellers are commonly used on fishing vessels. But they are also highly suitable for other situations that call for compact solutions that take up very little space in the engine room and cause the fewest possible obstacles at the rear of the vessel.

### Hydraulic tiltable rudder propellers

With a hydraulic tiltable rudder propeller you prevent damage and make maintenance easier, even under the toughest conditions. Given that the propeller is easy to release, they are ideal in shipping areas with a lot of dirt in the water.

#### The advantages of a tiltable system

- **Easy to maintain.** Dirt or rope in the propeller? Damage? Because you can tilt the propeller, you do not need the services of a diver or dockyard. This saves you a lot of time and money.
- **Easy to operate.** The propeller is tilted with a press on a button.
- **Secure with break-pin system.** If you hit something, then the safety pins will break and the propeller will automatically tilt upwards. This prevents any damage.

### Hydraulic retractable and tiltable rudder propellers

Deep or shallow water, light or heavy loads: with a hydraulic retractable rudder propeller your propeller is always at the required height.

#### The advantages of a height-adjustable system

- **Prevent damage.** With the depth adjustment system, you can easily adjust the height of the propeller to differences in water depth or load.
- **Optimise performance.** Better performance and lower fuel consumption due to optimal water flow.
- **Fully retractable.** Even if the ship runs completely dry, the propeller remains undamaged.

### Tunnel Thrusters

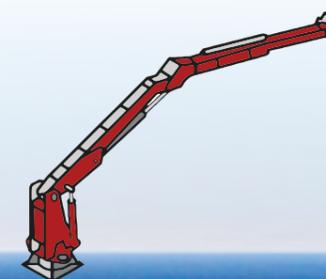
#### Supplementary drive units for precision steering during docking

More and more skippers, shipyards and ship owners are becoming convinced of the advantages of hydraulic bow thrusters. The main advantage of hydraulic bow thrusters is that you can switch the thrust extremely quickly between starboard and port side. They are also extremely compact to install and require considerably less maintenance than conventional, mechanical bow thrusters.

### Cranes

#### Robust, seaworthy cranes, for use under the toughest conditions.

Alongside Hydro-Armor rudder propellers we also supply a full range of cranes of the same brand. Use of the strongest materials ensures that these cranes continue to function perfectly for a long time even under the toughest conditions.



Passion for propulsion