



DUFOUR

ADVANCED TECHNOLOGY

The Ultimate Sailing Pleasure



## Elegance, pleasure and safety

### Ahead on every ocean in the world

DAT is more than a name for the technological advances at DUFOUR YACHTS boatyard. DAT is, above all, a state of mind, put into practice more than 40 years ago by Michel Dufour, a man with a vision.

From his home port in the French yachting capital of La Rochelle, Michel Dufour developed sailboats worldwide that are unique in lines and design, with cutting-edge, avant-garde technology and built for one thing only: your sailing pleasure.

This single-minded objective remains just as strong today, fortified by a unique passion. Innovation guides every step of the men and women who have stayed faithful to the DUFOUR brand. They manufacture sailing boats of unparalleled elegance and power - craft styled for regattas, speed cruising, and ocean navigation, built with the most modern materials, equipped with the most sophisticated and ergonomic equipment.

Designing a sailboat is the culmination of a collection of talent, work, new ideas, industrial ambition, and pure joy. DUFOUR YACHTS synergizes these elements as never before and puts them to work for those who are passionate - people like you. And because nature is your playground, DUFOUR YACHTS is also committed to protecting the environment and respecting the new standards to come.





## Performance and Pleasure

If Dufour yachts are like no other, each model must have different and complementary technological approaches. Here, the boatyard is also truly ahead.

### Two great names

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- **DUFOUR Grand'Large yachts** are family cruising boats characterized by unequalled comfort and space combining pleasure, ease of operation, and crew safety.
- **Dufour Performance yachts** are fast boats equipped with high speed potential and optimum on-board comfort.

### JP3 self-aligning rudder bearings

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Dufour Performance boats are equipped with JP3 self-aligning bearings. The ball-and-socket mounted rings keep the wheel from becoming rigid when the rudder blade is in operation. The self-aligning bearings are made of a ball and socket inside a case. Hence, the unit has a minimal friction coefficient and an excellent mechanical specification including resistance to saltwater damage. DAT relies on an internationally-reputed supplier: JP3 SA.

**Advantage:** no lubrication or maintenance necessary, incomparable steering flexibility and precision.

### A hydrodynamic rudder blade with a high resistance

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Born of joint research by the naval architect, DUFOUR YACHTS engineering and design department, the rudder blade on all new sailing yachts is the very symbol of the boatyard's innovative spirit.

**The rudder blade has optimal hydrodynamic performance due to the combined use of:**

. A high-density foam epoxy with closed cells preventing moisture absorption

. A stainless steel shaft and frame with very high mechanical resistance

**Advantage:** higher outputs and an excellent penetration coefficient in water thanks to better flow, giving more instinctive, more pleasant, and more gentle sensations at the wheel.

**DUFOUR YACHTS is one of the rare boatyards to build sailboats with tilted rudder blades, allowing optimum output whatever the heel of the boat.**



## Aesthetics and Ergonomics

With 3D CAD, full-size models, ergonomic research and optimization, use of new high-tech, high-performance materials, renowned architects, the latest equipment, DUFOR YACHTS has implemented a major decision-making process for finding solutions through technology, all with your safety and sailing pleasure in mind.

### An open and accessible cockpit

Famous for their deck plan ergonomics, Dufour yachts represent the best in comfort and pleasure.

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- Sitting or standing, the helmsman is always in a comfortable and practical position
- The genoa winches are within immediate reach
- All control lines are lead aft to the cockpit
- The wide, clear gangways make on-deck movement safe and easy.

### The very essence of elegance

Depending on the option selected, teak cockpit seats, floor and side decks are finished with elegant teak surrounds to emphasize the boat's aesthetics.

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### Meticulous woodwork

All the woodwork and joinery, down to the laminated floor, is created in the same wood moabi or wenge, depending on the model. This sophisticated unity of materials is part of what gives the superb interior such a natural appearance and a warm convivial feel.



## High Technology and Safety

To increase performance and structural strength, DUFOUR YACHTS uses cutting-edge techniques in the design and manufacture of their hulls and decks.

### Injection-moulded decks

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Injection consists of forcing resin under pressure into a mould. This very complex technique makes it very easy to control the resin content and eliminate all possible voids and achieve a first class composite material. There is no requirement for internal moulding, which means more headroom.

**Advantage:** Significant weight decrease giving better stability, a quality original finish, superior reliability and more headroom.

### Vacuum-infused decks

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This process involves impregnating fabrics with resin using a vacuum. Much used in aeronautics, this advanced technology makes it possible to obtain a composite material with strength characteristics.

**Advantage:** great weight/performance structural ratio.

### Sandwich hulls, vacuum gluing.

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The sandwich hull is made of components that have been laminated by gluing and pressurization. The sandwich hull consists of a PVC foam core placed between two laminated skins, all protected on the outside by gelcoat.

**Advantage:** Better soundproofing, increased mechanical characteristics, noticeable increase in longitudinal hull rigidity for a given weight. By using PVC foam instead of balsa, water absorption is prevented.

### Twaron®

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Dufour yachts hulls and keels are protected and reinforced with Twaron®. This aramid fibre has very low density and high technical traction resistance. In addition, to guarantee better structure, the floor bearers and bulkheads are laminated to the hull.

**Advantage:** Excellent shock and impact resistance.



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