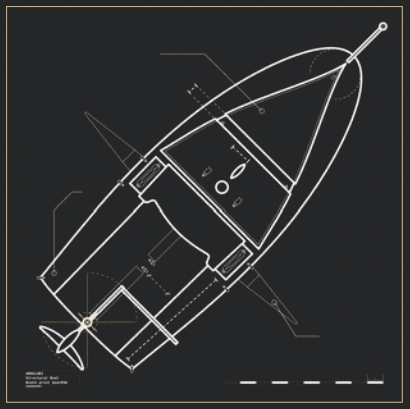
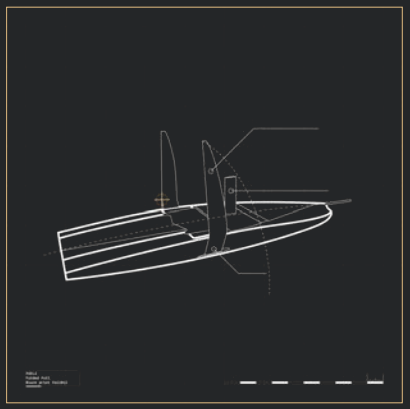
PEACOQ

Monohull foiler

SPECIFICATION

Scow bow monohull	
Hull Lenght	**4.20m**
Overall lenght	**4.70m**
Water draft	**0.80m**
Air draft	**7m**
Weight with full equipment	**140 kg (hors équipage)**
Hull weight	**70 kg**
Beam without foils	**1.42m**
Beam with retracted foils	**2m**
Beam with foils extended	**4m**



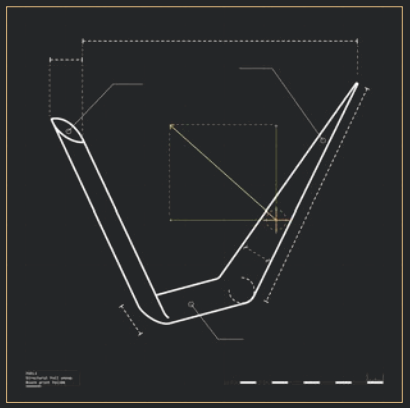


KEY COMPOSITES PART

Hull, deck, foils casing, foils tips, rudder manufacturing process : vacuum infusion.

Hull and deck material : carbone fiber, glass fiber, epoxy resin.

Raker blocks in prepreg carbon fiber.




PEACOCK

MAJORS CARBONE FIBER EQUIPMENTS

Stiffness and lightness

Foil casing keystone of the boat to withstand all the stresses

Boat transom (4mm thickness)

Rudder and holding rudder box

100% carbone

Rakers blocks in prepreg built-in foils casing to increase structural strenght

Foils tips

Rudder and its wing

Bow sprit : carbone tube filament winding

FOILS FEATURES

Self-leveling and multiple point to the wind flights

«V» shapes grant flight height self-leveling : they give longitudinal stability

Sharp foil tips for a low water surface piercing coefficient: reduced drag and lower ventilation for more performance.

Flat foil tip area (300mm on each tip) for fast take off in light air. Provides support for upwind flight.

The sharp tips make it possible to fly in a wide variety of wind direction, and particularly in updwind directions.

Black anodised aluminium shaft of 1.10m for a flight height >50 cm

Symmetrical profile generating anti-drift can replace dagerboard during flight.

RUNNING RIGGING

High performance materials and craftsmanship

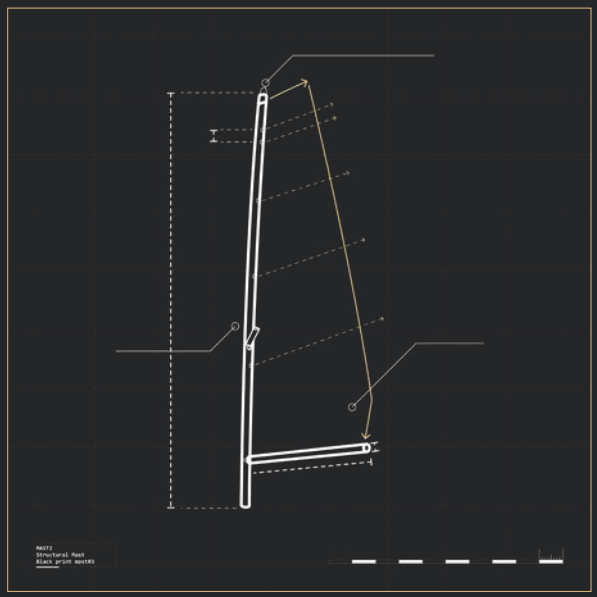
LIROS running rigging with its terminations designed to resist loads and to last over time: handmade rigging by the FOILY riggers.

Our selection of LIROS references is guided by breaking loads, resistance to elongation and finally comfort to the «touch».

SLEEPING RIGGING

High accuracy

The cap shrouds and lower shrouds are made of 3mm diameter stainless steel monotoron cable with turnbuckles for greater precision in tensioning the mast.



NORTHSAILS SAILS IN ARAMID

to maintain an optimal profile during the flight

9.5m² crosscut Aramid battened mainsail with five full battens.

3.5m² Aramid battened crosscut jib with five full battens.

The total surface of the sails is deliberately less than 15m² which allows the Peacoq to be used in Switzerland without a sailing permit.

The flight causes a clear acceleration of the apparent wind compared to the real wind. As a result, the angle of the wind in relation to the sails is more closed. In order to prevent the sails from tilting, which would slow down the boat and prevent it from flying, we have developed aramid sails specifically for the Peacoq with North Sails.

Aramid is a noble material that allows the sails to maintain their profile shape during flight. Furthermore it has an excellent resistance to elongation

Downwind sails are a subtle compromise: deploying sail to take off faster and having a fairly high upwind heading for greater versatility on the water, especially in light conditions.

Gennaker Surface option 1 : 10m²
Gennaker Surface option 2 : 13m²

HYBRID PROGRAM

From Foiling discovery to performance

1. Fully retractable foils

The Peacoq allows sailing enthusiasts to learn to fly without fear.

Indeed, the first remarkable feature is the stability of the hull, thanks in particular to its spatulated bow which increases the width at the front. This means that sailors who are new to the Peacoq do not have to make any special efforts to keep the boat's trim straight, especially to avoid drifting. Compared to conventional dinghies, the Peacoq has a much smaller heeling pressure.

The foils can be easily folded in less than a minute which guarantee safety for the sailor :

• In the «beach start» and «return to shore» phases, the possibility of stowing the foils in no time eliminates the risk of these appendages hitting obstacles

• If the weather deteriorates and the wind increases too much too quickly, raising the foils allows you to drastically reduce your speed and return safely to port as a good sailor.

• In car park, raising foils limit the risk of damage from contact with the surrounding boats.

2. Flush deck optimised for double and single-handed sailing

Central ropes corridor from bow to cockpit and ropes control near hand :
Trimmings and manoeuvers of Peacoq are controlled from cockpit. Central ropes corridor avoid mixing them till cockpit and ultimately until crew hands.

From then on, all the gennaker furling lines up to the Cunningham are sent back to the central piano at the beginning of the cockpit. This makes it much easier for the crew to adjust the boat in double-handed or solo-handed to fully control the boat from the cockpit.

Harken self-tacking jib rail for faster manoeuvring and more comfort in solo-handed:

The jib track under the deck hatches reduces the amount of drag and makes foiling jibes easy thanks to the speed with which the sail can be tacked.

The jib track is also an essential convenience for solo-handed sailing.

Non-slip benches and a padded central strap for good support:

The Storm Grey Brushed anti-slip pads embedded in the entire cockpit surface on the benches and on the sailors' foot rests add an undeniable touch of comfort while enhancing the sailors' safety.

In the landing phases and in the event of a buffet stop, the sailors remain in their position thanks to their support

3. Fully adjustable foils for more fun

Like a wing that raises an aircraft, the foil, when immersed in the water and pulled at speed, interacts with the fluid and generates a vertical thrust force called «lift». By changing the angle of incidence of the foil, this force can be increased or reduced depending on what you want to do on board (fly higher or lower), depending on the weight of the crew (heavier or lighter) and finally depending on the wind available during navigation (more or less wind).

The Peacoq makes it possible to play with this lifting force of lift on each foil thanks to an ingenious system imagined by the MMProcess architectural firm. Ropes that are sent back to the piano and that can be used even during the flight of the boat serve to reduce or increase this force.

In the same spirit, the helmsman has at his disposal a trimming rope for adjusting the longitudinal plate (the pitch of the boat). This allows the helmsman to choose to fly «bow-up» or «bow-down» depending on the sea state and the wind strength encountered.

This concentrate of simple and robust mechanics makes it possible to envisage exciting confrontations with opponents during a regatta within a monotype class.

FOILY SHIPYARD

Cutting-edge skills and a passion for sailing

Based on the Guérande peninsula near the industrial cluster of Saint Nazaire, Foily is part of the shipbuilding heritage of its region.

The shipyard is made up of a team of enthusiasts and workers at the cutting edge of their field of expertise: composite specialists, seamstresses and deckhands combine their efforts with the aim of delivering elegant, modern and robust boats for the enjoyment of our customers. A human-sized team allows us to cultivate a close relationship with our French and European customers.

The manufacture of the Peacoq is marked out by identified stages and validated by conformity tests : this guarantees a high level of quality as well as uniformity from one product to another. As the owner of its own high quality production tools (moulds), Foily is in control of its future and can assure its customers of the delivery of a large number of units in the spirit of creating a one-design class.

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