

An aerial photograph of a sailboat with large, white, triangular sails fully deployed. The boat is on a deep blue sea. The sails are made of a light-colored material with visible stitching and rigging. The deck is made of light-colored wood. The overall scene is dynamic and captures the power of the wind on the sails.

SAILING SYSTEMS

Masts & Booms

RONDAL

ULTIMATE RELIABILITY

PLAN FOR THE UNEXPECTED





PRODUCTS THAT ENSURE ULTIMATE RELIABILITY IN ANY SITUATION

Rondal designs and manufactures high-performance sailing systems and equipment for superyachts. Rondal is recognized as the best for its unrivalled Dutch build quality and innovative technical solutions, achieved through a dedicated focus on continuous improvement in both products and services.

As a building partner, Rondal leverages decades of experience and relieves the client by taking on turnkey projects. The products of Rondal ensure ultimate reliability in any situation.

The Rondal team consists of approximately 75 professionals, including highly qualified engineers, composite workers, CNC machine operators, welders, and mechanics, as well as a host of complementary specialists.

With decades of experience in composite and aluminum engineering and manufacturing, Rondal serves the market with specialized products for both sailing yachts and motor yachts.





**WE BRING
OUT THE BEST IN SAILING**

Rondal's decades of experience have produced unrivaled expertise in both engineering and manufacturing know-how. A solid team of mechanical engineers, sailing experts, and naval architects – each with their own specialization – ensures an integrated approach to sailing systems.



**AS A BUILDING PARTNER RONDAL
RELIEVES THE CLIENT BY TAKING
ON TURNKEY PROJECTS**

Rondal utilizes dedicated software such as SailPack and Aravanti – among the most advanced Fluid-Structure Interaction (FSI) tools in the yacht industry – to design a comprehensive rig model. This process involves analyzing the sail and deck plan geometry and understanding the mechanical properties of various components. Closely collaborating with sailmakers, Rondal develops load cases, effectively sharing and leveraging each partner's expertise.

By employing the inviscid flow panel method and conducting extensive Computational Fluid Dynamics (CFD) analyses, the gathered data is expertly transformed into precise specifications for spars and rigging.





INTEGRATED SAILING SYSTEM

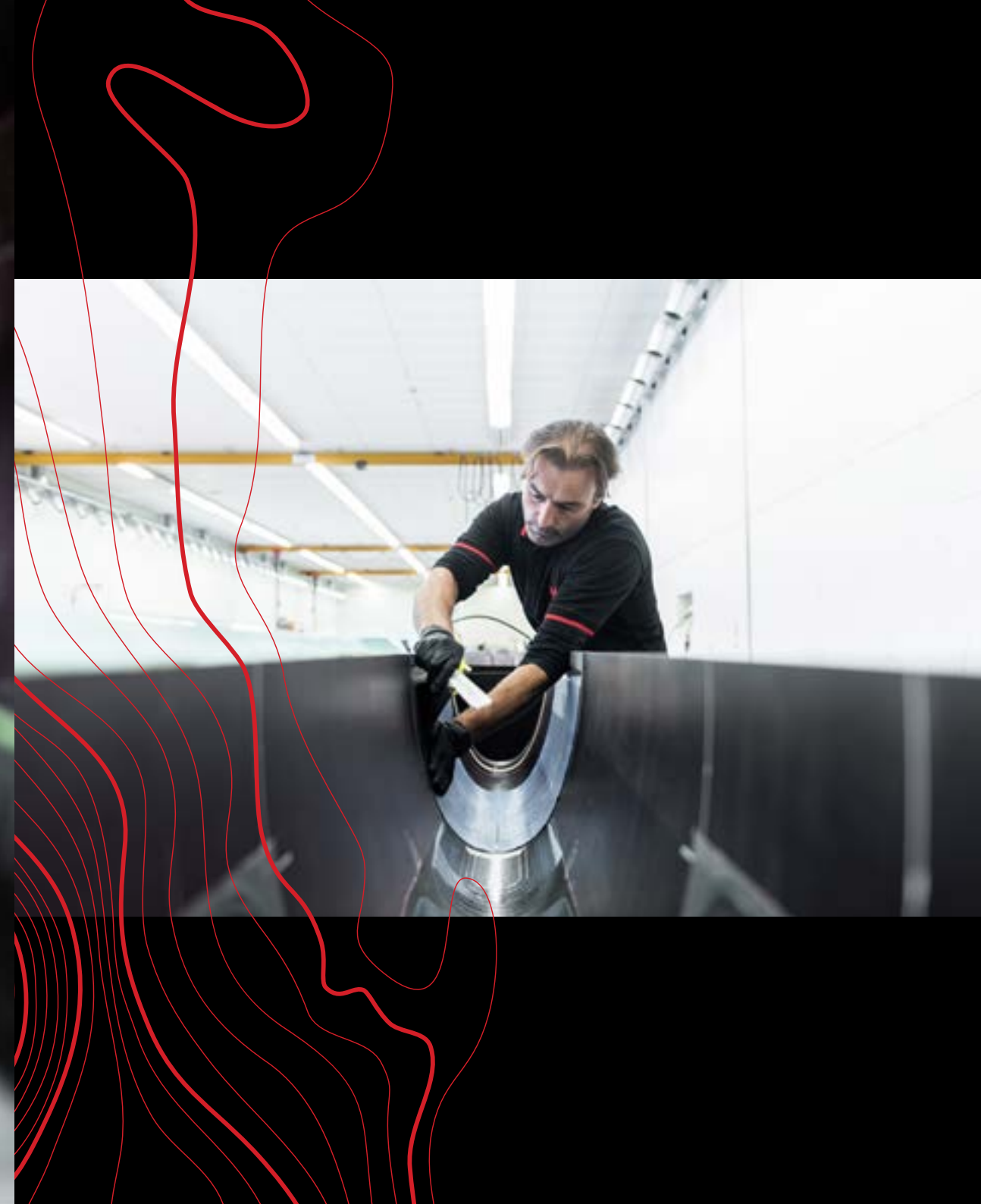
Drawing upon decades of building experience and expertise, Rondal is the only company in the world capable of providing a fully integrated sailing system encompassing spars, rigging, furling systems, captive or deck winches, and deck equipment. Rondal has played an integral role as a team member in many yacht projects, taking full responsibility for the entire sailing system. For instance, Rondal does not merely supply masts, booms, or winches. Instead, we ensure that every component in the system operates perfectly in sync with all other components.. As a sailing system supplier, Rondal employs this approach to facilitate multidisciplinary optimizations, with investment and risk distributed across the entire package.

Furthermore, Rondal has extensive experience in designing and building every element of the system, enabling the team to effectively supervise subcontracted parties and ensure

that Rondal's high-quality standards are met.

Lastly, it allows for optimizing the end user experience through a well-designed Human Machine Interface (HMI). Rondal understands the importance of being able to handle and control the forces and mass in play. The only way to do so safely is when clear, easily readable information is provided by the system. The HMI is something we discuss in detail with the owner's team as well as with our service engineers who have a extensive experience on board yachts. A typical example: Rondal ensures that you do not have to switch alarm monitoring & control system pages while sailing to view weather data or sailing loads. We make sure all the primary information you need as a sailor is visible on a single page.





BENEFITS: PRODUCTION OUT OF AUTOCLAVE

- Uninterrupted laminate from top to bottom
- Unique mold with freedom in size and shape, allowing Rondal to engineer the best profile size to meet strength requirements
- Full access to the inside of the mast to fit reinforcements, piping, etc. before the two halves are joined together
- Full length high modulus carbon pre-preg plies
- One piece, no sections
- No additional construction or thickness needed for joints
- No “hard spots” in the mast bend
- Consistent, harmonious thickness and strength



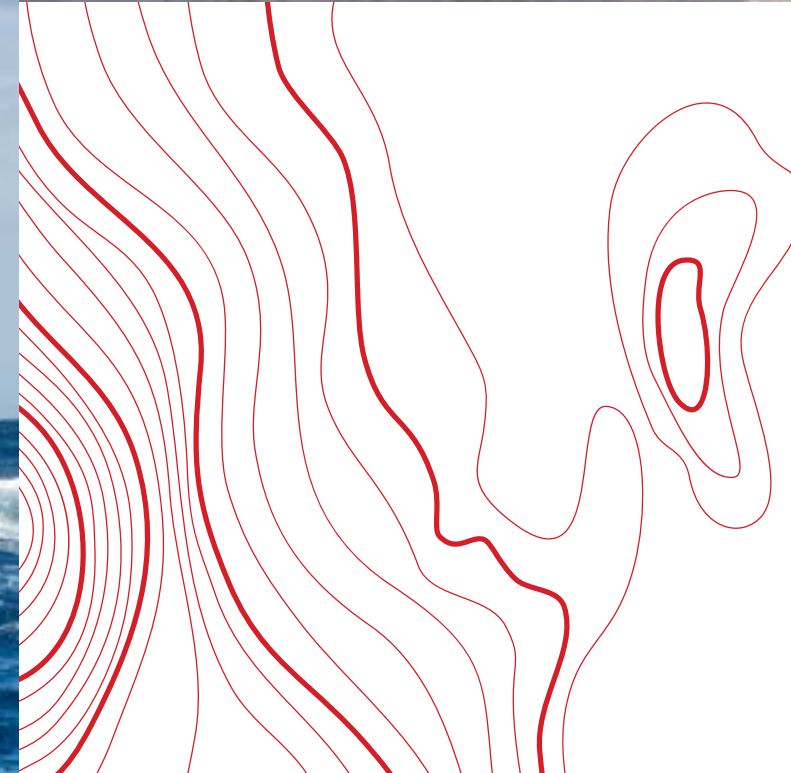
“STYLE TO ORDER” PRINCIPLE

In the world of high-performance yachting, style and function are not mutually exclusive. At Rondal, we understand that while a yacht is a luxurious home away from home, it is also a cutting-edge vessel designed to excel on the water. Our commitment is to seamlessly merge style and performance, ensuring that you do not have to compromise on either.

With Rondal’s “Style to Order” principle, we offer a dynamic approach that allows us to tailor

our high-performance equipment to meet the unique styling desires of both owners and architects, all while adhering to technical excellence. Imagine a boom that not only serves its function flawlessly but also blends harmoniously with the yacht’s exterior aesthetics.

Unlike the ordinary, generic rigs found on most yachts, our styled rig is a testament to sophistication, enhancing your yacht’s individuality and overall appeal.





STYLING ELEMENTS

A range of elements that can receive the "Style to order" treatment:

- Boom
- Tapered mast
- Spreaders
- Rig & stays
- Boomvang
- Mainsheet / preventer sheaves
- Masthead
- Equipment, integrated mounts e.g., flat panel, etc.



"JUST WANTED TO SEND A SHORT NOTE AND SAY HOW IMPRESSED I AM WITH THE NILAYA RIG. YOU GUYS HAVE REALLY STEPPED UP YOUR GAME – THAT RIG IS IMPRESSIVE."

Scott Zebny | Doyle Sails



RONDAL PERFORMANCE FURLING BOOM

The Rondal performance furling boom is often specified as a key component of the sailing system where “only the best will do”. This underlines the market’s recognition of its unbeatable status – yet this status was not achieved overnight. It is the result of many years of dedicated commitment and development.

Rondal’s unique and proven clew slider, working with an outhaul cylinder within the boom, allows for higher loads and enables tensioning of the sail’s foot, even when the sail is reefed. As any sailing professional will confirm, this is an important element for optimizing sail trim, which in turn increases sailing performance.. Because the clew slider takes on the sail loads, there is no chafe of the furled sail or load on the mandrel. The design allows for a “hands off” operation.

Besides performance, aesthetics are also important. Therefore, Rondal provides the “Style to Order” principle, allowing the boom to be styled to meet the demands of the owner and architect within technical limitations. This way, the boom can be designed to blend seamlessly into the yacht’s exterior styling. While most yachts have a “generic” rig, the styled rig will enhance the yacht’s uniqueness and communicate sophistication. Of course, technically and functionally proven principles are uncompromised and retained.



**GO
WHERE
YOU
FEEL
MOST
ALIVE**

Rondal

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