



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 unburdens the client by taking on turn-key projects. The products of Rondal ensure ultimate reliability in any situation.

The Rondal team consists of approximately 75 professionals. The workforce includes 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 decade-long experience has produced unrivalled expertise, both in engineering and manufacturing know-how. A solid team of mechanical engineers, sailing experts, naval architects, each with their own specialism, ensure an integrated sailing system approach.



AS A BUILDING PARTNER RONDAL UNBURDENS THE CLIENT BY TAKING ON TURN-KEY PROJECTS

Rondal utilizes dedicated software such as SailPack and Aravanti, which are among the most advanced Fluid-Structure Interaction (FSI) packages available 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. Collaborating closely 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 adeptly 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, assuming full responsibility for the entire sailing system. For instance, Rondal doesn't merely supply masts, booms, or winches; instead, we ensure that every component in the system operates perfectly in sync with one another. As a sailing system supplier, this approach facilitates easier pursuit of multidisciplinary optimizations, as investment and risk can be distributed across the entire package.

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

and ensure that Rondal's high-quality standards are met.

Lastly it allows to optimize 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 safely do so is when clear, easily readable information is provided by the system. The HMI is something we elaborately discuss with the owners team as well as our service engineers who have a tremendous experience on board the yachts. A typical example; Rondal makes sure you don't have to switch alarm monitoring & control system pages when sailing to either see the weather data or the sailing loads. We make sure all the primary info, that you want to see as a sailor, is visible on one page.



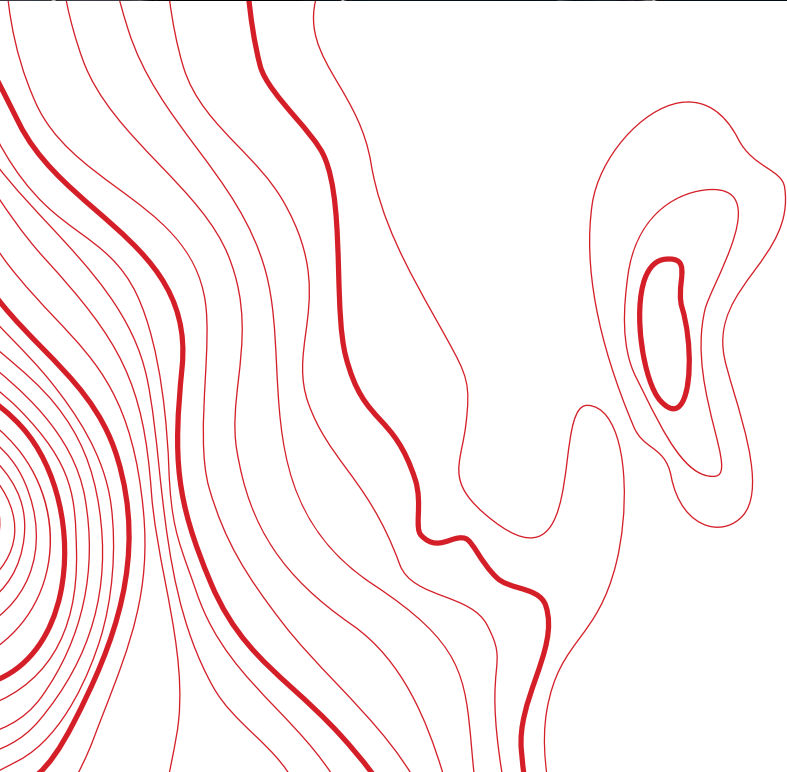




BENEFITS: PRODUCTION OUT OF AUTOCLAVE

- Mast production: full length, each half constructed out of a single piece
- 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 and 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's also a cutting-edge vessel designed to excel on the water. Our commitment is to seamlessly merge style and performance, ensuring that you don't 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 esthetics.

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.

Experience the Art of Rondal, where high-performance equipment meets exceptional style without compromise.





STYLING ELEMENTS

A range of elements that can receive the “Style-to-Order treatment”:

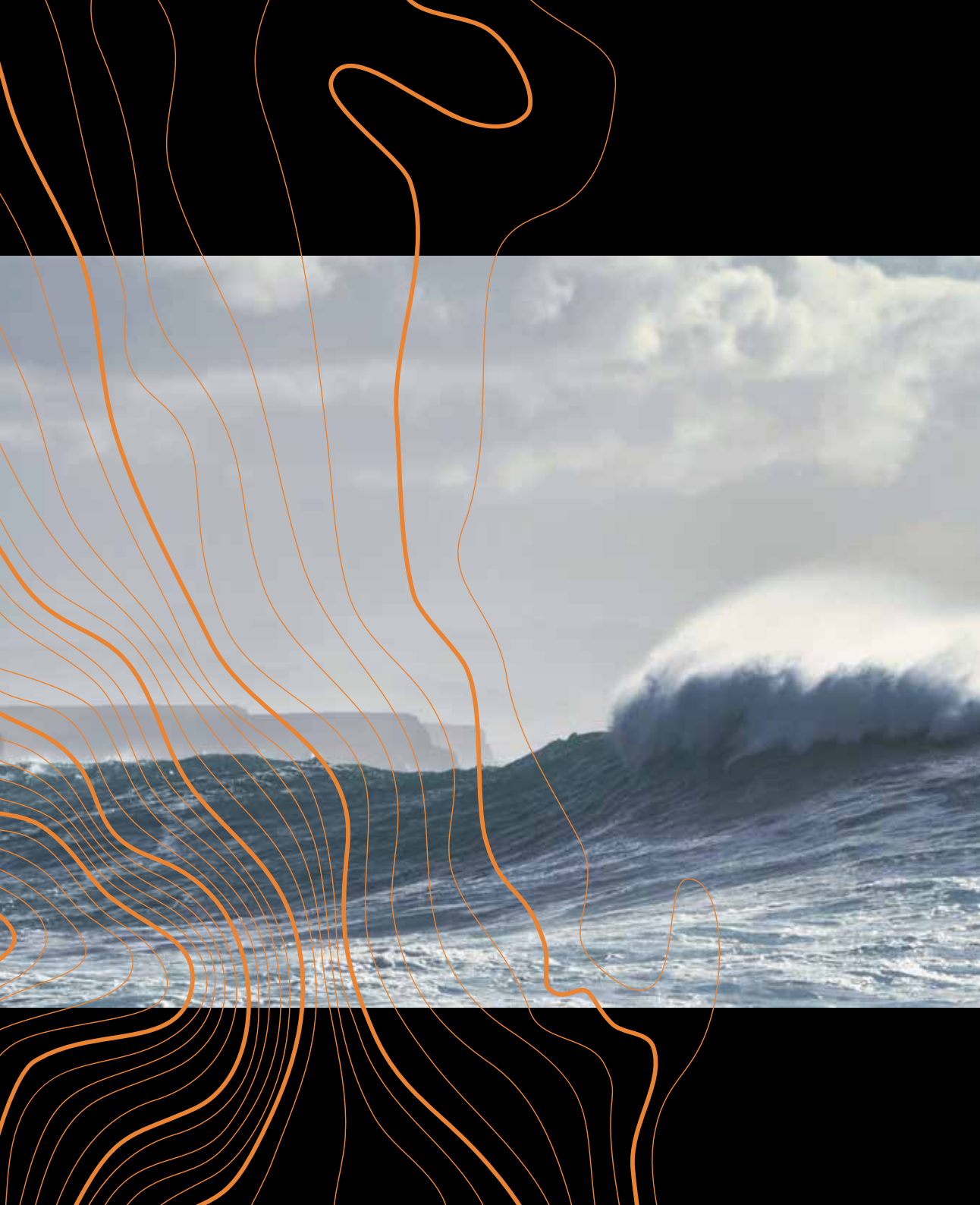
- Boom
- Lower mast section, gooseneck & boomvang (one piece fairing)
- Tapered mast
- Spreaders
- Rig & stays
- Boomvang
- Mainsheet / preventer sheaves
- Masthead
- Equipment, integrated mounts e.g. flat panel, etc.



“JUST WANTED TO END 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 resulted from 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 the foot of the sail to be tensioned, even when the sail is reefed. As any sailing professional will confirm, this is an important element to optimize sail trim, and notably increases sailing performance. Because the clew slider takes on the sail loads, there's no chafe of the furled sail or load on the mandrel. The design allows for a 'hands off' operation.

Besides performance also esthetics are not to be neglected therefore Rondal provides the 'style to order' principle allowing to style the boom to the demands of the owner and architect within the technical limitation. This way the boom can be designed to blend seamlessly into the exterior styling of the yacht. While most yachts have a 'generic' rig, the styled rig will add to the yacht's uniqueness and communicates sophistication. Technical and functional proven principles are, of course, uncompromised and retained.





**GO
WHERE
YOU
FEEL
MOST
ALIVE**

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