

Spars & Rigging carbon

RONDAL

POWERFUL

PERFORMANCE



THINK **AHEAD** >>



THIS IS RONDAL



Hatches & Entrances



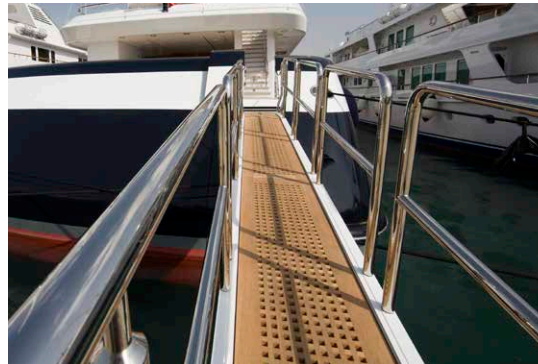
Winches & Feeders



Spars & Rigging



Doors & Windbreakers



Gangways & Ladders



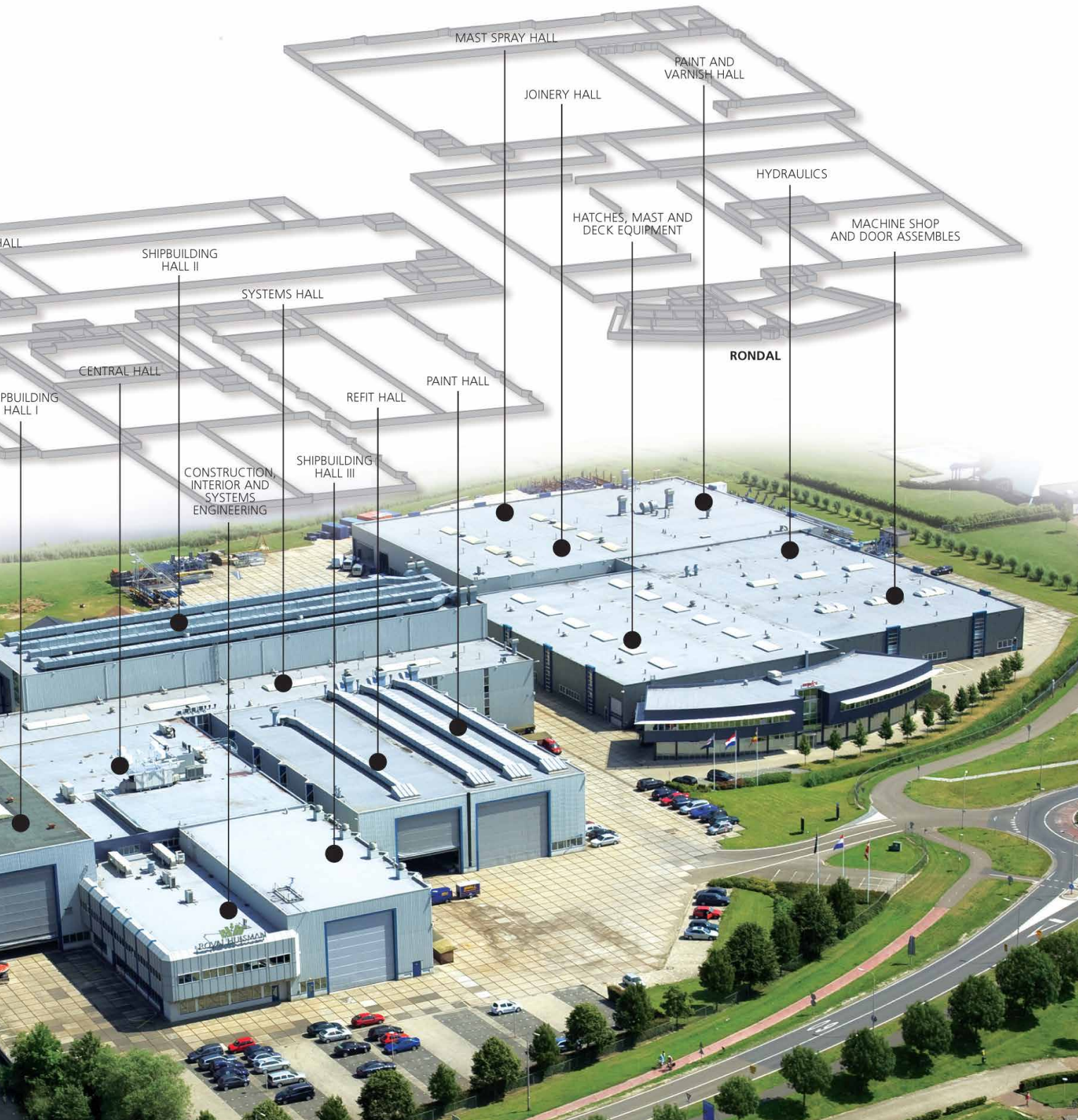
Hull Doors & Platforms



Key Facts

- » Founded in 1976
- » Part of the Royal Huisman Shipyard Group
- » 65 Rondal employees





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Why Rondal was founded in 1976

- » Manufacture to custom requirements of Royal Huisman
- » Supply the best for the yachting industry

Now preferred supplier for:

- » Discerning owners
- » Leading Naval Architects
- » Experienced owner's representatives
- » Hands-on knowledgeable captains
- » Top super yacht yards worldwide

Rondal **Spearheads**

- » Top quality
- » Owners satisfaction
- » Reliability
- » Innovation
- » Full support
- » Integrated systems

Understanding the requirements "Design Brief"

- » Customer requirements
- » Design input Naval Architect
- » Project styling
- » Regulations





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Rondal Carbon Spars

Delivered projects

Project	Client	Products
Hyperion	Royal Huisman	Mast & Boom
Aphrodite	Vitters Shipyard	Mast & Boom
Foftein	Royal Huisman	Boom
Pamina	Royal Huisman	Mast & Boom
Maria Cattiva	Royal Huisman	Mast & Boom
Meteor	Royal Huisman	Main mast & boom / Fore mast & boom
Hanuman	Royal Huisman	Mast & Boom
Athos	Holland Jachtbouw	Main mast & boom / Foremast & boom
Kamaxitha	Royal Huisman	Main mast & boom / Fore mast & boom
Pumula	Royal Huisman	Mast & Boom
Blue Papillon	Royal Huisman	Mast & Boom
Sheherazade	Hodgdon Yachts	Main boom & Mizzen boom
Visione	Baltic Yachts	Boom
Borkumriff IV	Royal Huisman	Fore boom & Main boom
Athena	Royal Huisman	Fore boom, Main boom & Mizzen boom
EOS	Lürssen	Fore boom, Main boom & Mizzen boom
Visione (Refit)	Baltic Yachts	Boom
Action	Royal Huisman	Mast & Boom
Sybaris	Perini Navi	Main mast & boom / Mizzen mast & boom
Sea Eagle	Royal Huisman	Mast & Boom
43m sloop	Royal Huisman	Mast
Skade	Holland Jachtbouw	Mast & Boom
Ngoni	Royal Huisman	Mast & Booms
Pink Gin VI	Baltic Yachts	Mast & Performance boom

Under construction projects

Project	Client	Products
81m schooner	Royal Huisman	Masts & Booms
43m sloop	Baltic Yachts	Mast & Performance boom







Rondal Carbon Masts Powerful Performance

With 38 years of mast manufacturing experience the Rondal **commitment** to building reliable, top quality, innovative and aesthetically pleasing masts has never been higher. With input from the Naval Architect and using **advanced technology**, including Finite Element Analysis, and consulting with highly respected third parties such as the Dutch Aerospace Laboratories, AES, Gurit and Germanischer Lloyd, the optimum mast section and laminate for each mast is determined.

Rondal optimizes the mast strength and stiffness with **freedom of shape and size**, every mast has its own unique mould. Tapering can start at the top spreader or at deck level. This can be achieved with our unique production method.

The mast is built in **one piece** (in a Germanischer Lloyds' approved composite workshop) with the fibres running unbroken from masthead to mastheel; there is no need for a splice to join two parts of the section. The result is a perfect strength to weight ratio.

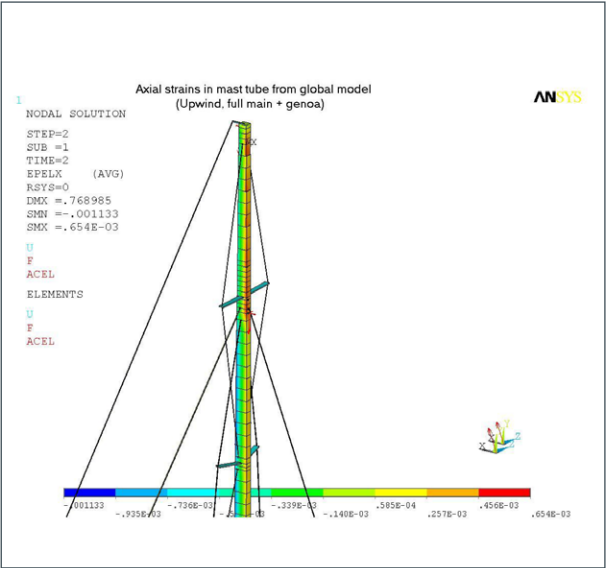
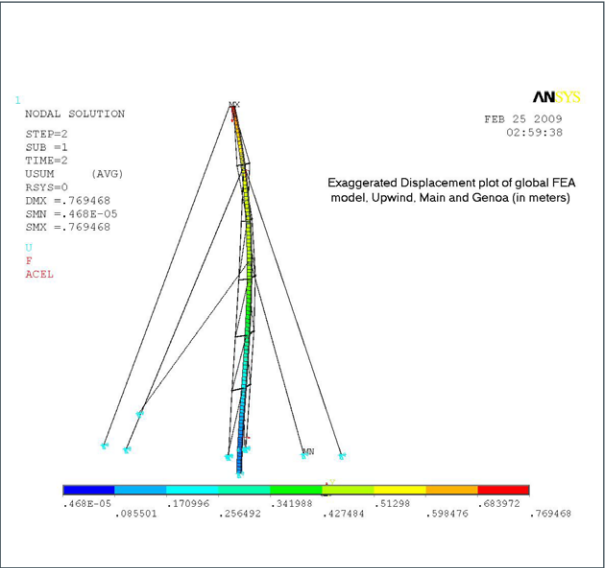
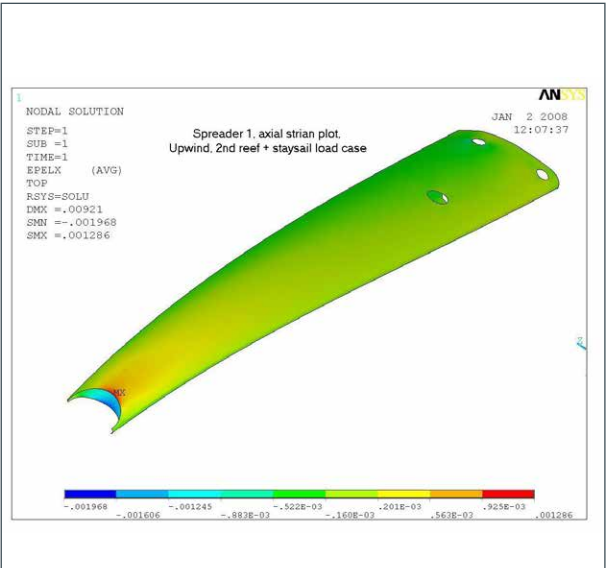
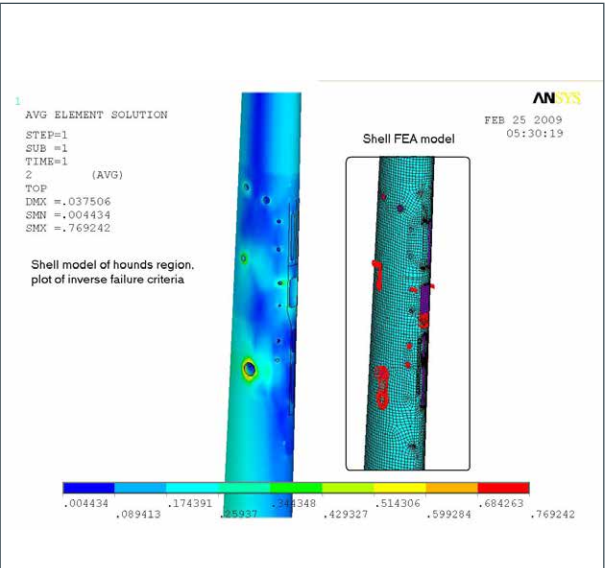
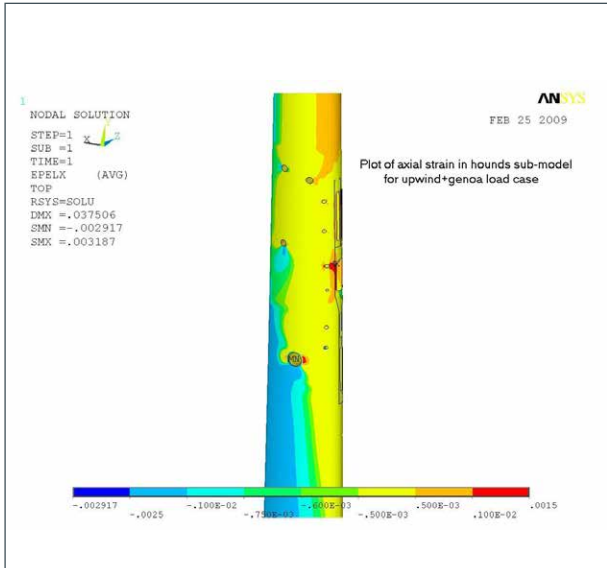
The carbon material used is **Lloyd's certified** and could be standard or high modulus or a combination (hybrid). A quality assurance system equivalent to ISO9001 is in place.



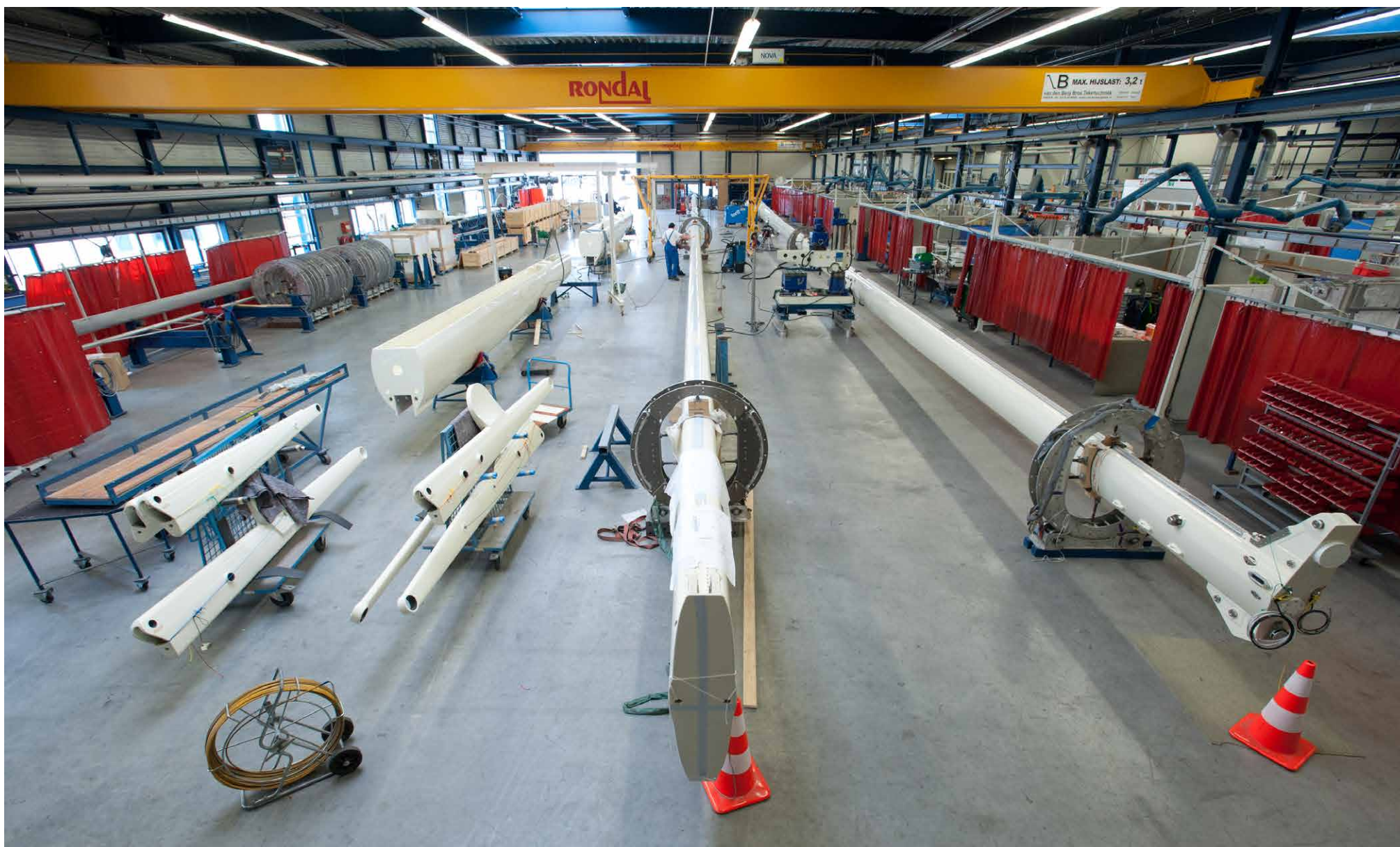
Production Out of Autoclave

- » Mast production, full length built out of one piece.
- » Uninterrupted laminate from top to bottom.
- » Unique mold with freedom of size and shape.
Rondal can engineer the best profile size to meet strength requirements
- » Building process gives full access to the inside of the mast for placing reinforcements, piping etc. before two halves are joint together













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Rondal Booms Powerful Performance

Rondal booms enjoy the same **freedom of size and shape** as the masts, within the constraints of strength and stiffness requirements and, for a rollaway boom, the space required for the furled sail.

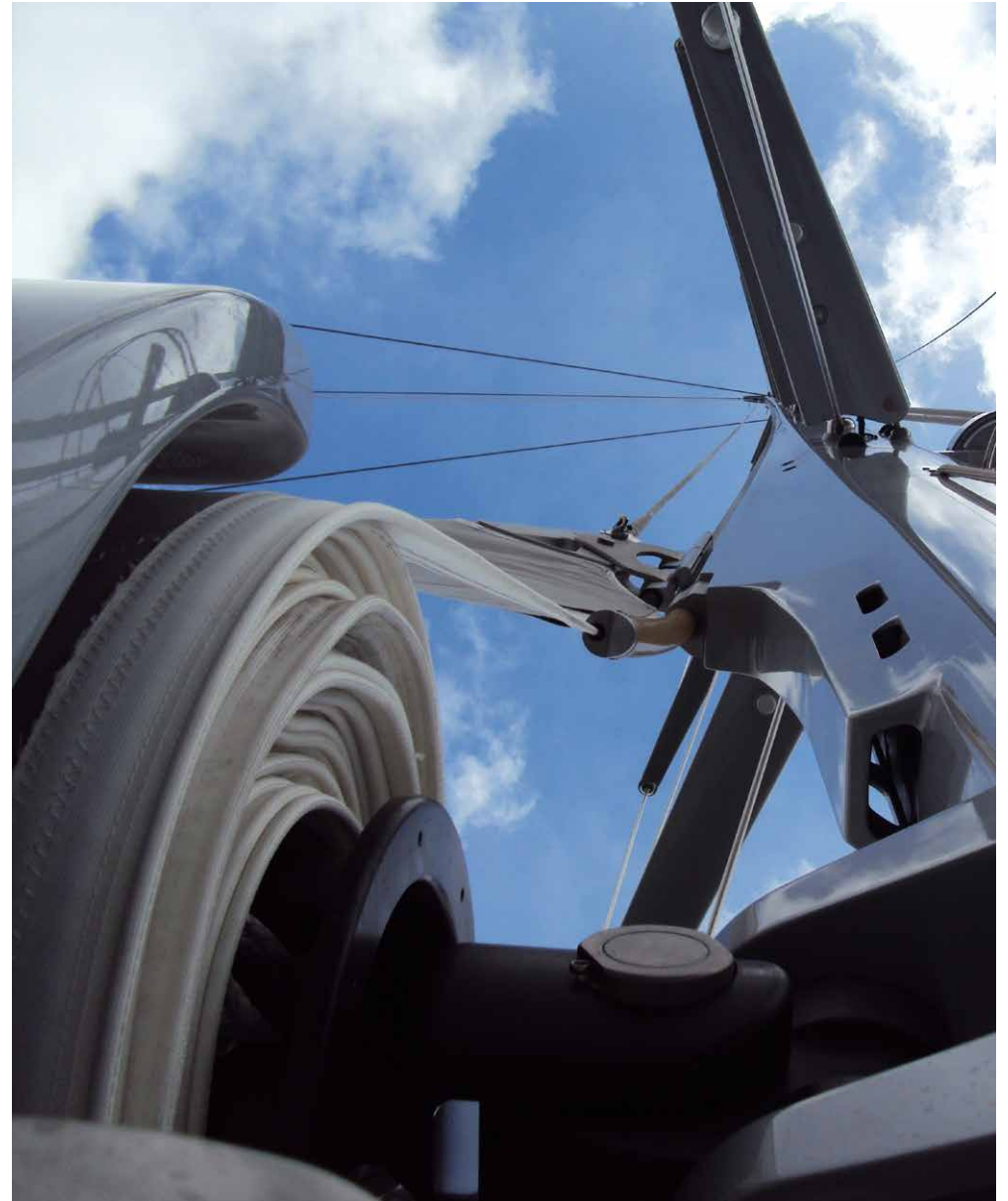
The Rondal patented rollaway boom system is the only one where the conventional reefing system is fused with a rollaway system. Thus **ease of handling and stowing** the sail is combined with an **optimal sail shape** in all weather and **reduced chafing** and longer sail life.

Rondal finalized the design of the third generation of rollaway booms where one of the main new features is an open ended forward end of the boom resulting in a sleeker mast design with a smaller ramp.






blue papillon
GEORGE TOWN





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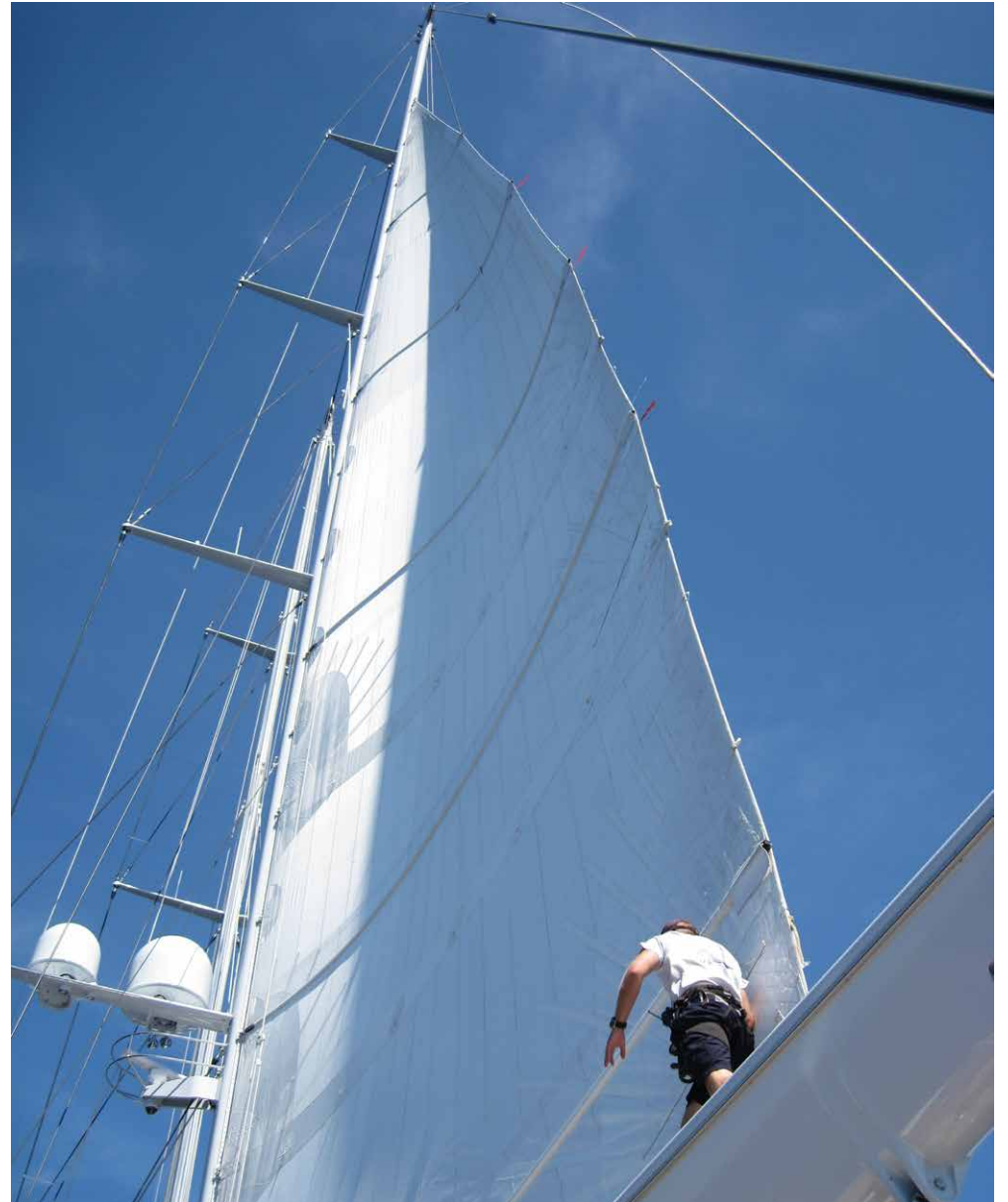


Standing Rigging

Part and parcel of the spar supply is the standing rigging.

Unlike other mast manufacturers Rondal is free to offer several top quality brands with whom an excellent relationship exists, guaranteeing a trouble free match with the mast and yacht.





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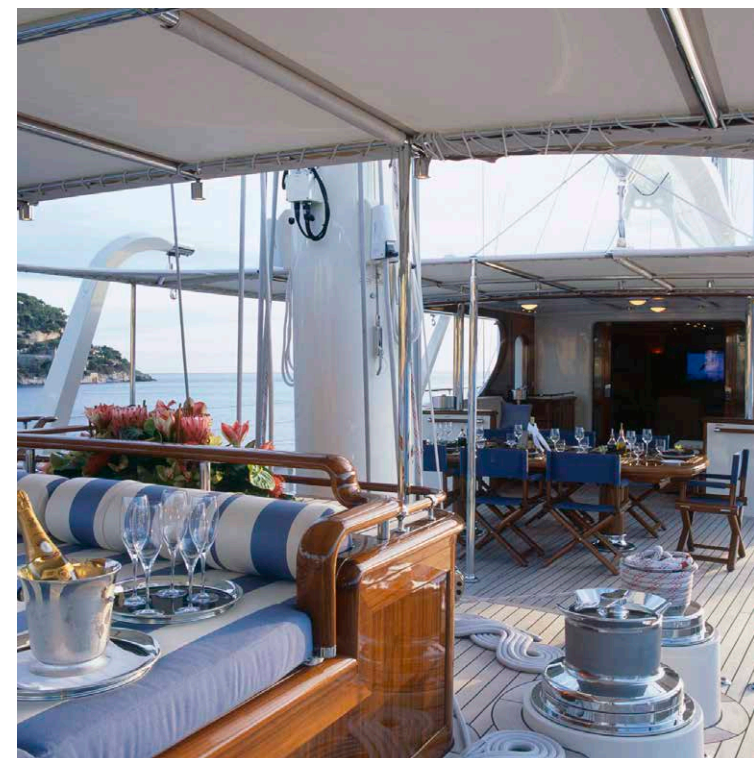


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