

Che

TO SUCCESSFULLY COMPLETE ITS 34M CATAMARAN, SUNREEF BROUGHT TOGETHER A WORLD-BEATING TEAM OF CONTRACTORS
CLAIRE YOUNG REPORTS



SUNREEF SHIPYARD



Thomas Serré, chief naval architect and project manager

Our choice of contractors was a logical result of many years of fruitful cooperation and total trust. All of the contractors we used

on *Che* are the best in their fields.

Lorima, for instance, have great expertise in constructing the tallest performance carbon masts. They have mastered cutting edge production technology and are one of only a few firms able to build such large one-piece masts.

Incidences, meanwhile, supply racing yachts and three quarters of the catamaran market, so their sails are constantly undergoing round-the-world trips and come with a lot of technical feedback.

As Harken are the world leader in rigging we asked them to provide us with purpose-made cars and blocks within the T-track system.

And finally, Cummins is known for its expertise in marine engines, so their products are always reliable and perform very well.

ENGINES

Piotr Jacewicz, regional sales manager, Cummins



This project has been a great opportunity and a huge challenge for Cummins.

It includes several unique technical arrangements and features that have never been used on any other vessel in the world.

We knew that working on *Che* meant providing one-off solutions, but the prestige related with powering this piece of art, rewarded all of our effort.

SAILS

Bertrand Cudennec, commercial director, Incidences



Che was particularly interesting for us because it allowed us to

apply the experience we have with maxi racing cats to large cruising catamarans. Both type of boat require maximum reliability and high performance, so we've made sure the sails on this Sunreef 114 have optimal performance, easy handling and longevity — important elements for all cruising yachts.

STRUCTURAL CALCULATIONS

RIVOYRE INGENIERIES

Sunreef's naval architects studied *Che's* performance and sea capability using advanced computational fluid dynamics in collaboration with one of the leading experts in the field, French firm Rivoyre Ingenierie, which is based near Antibes. The calculations were then applied to a finite element analysis to optimize all structural parts



Right: *Che* was finally launched in July 2010 at Sunreef's yard in Gdansk, Poland



CARBON MAST

Vincent Marsaudon, director, Lorima

We have been producing carbon masts for racing projects for more than 20 years. We progressed naturally into cruising yachts, so were pleased to work with Sunreef — a yard known for its top of the range cruising yachts.

New developments are always being made for events such as the America's Cup, Vendée Globe, and Volvo Ocean Race. Sunreef wanted us to supply this kind of technology and performance in order to satisfy their elite clients who want to combine luxury and high technology.

WINCHES & DECK GEAR

Giampaolo Spera, CEO, Harken

Harken is proud to have supplied equipment to *Che* — the world's second largest sloop-rigged catamaran. Her 20kt top speed and large sailplan were challenging. To manage such high loads, we chose to use performance winches, megayacht blocks, and a CRX roller traveler mainsheet system. A 50mm Switch T-Track Battcar system has made raising, reefing, and dropping the sail easier, and cut the stack height in half.



Above: After her launch *Che* was put through initial seatrials before having her mast stepped

CHE SPECIFICATIONS

TECHNICAL DATA

- ▶ **Material:** Aluminium structure/carbon mast and boom made in-house
- ▶ **Length:** 34m
- ▶ **Waterline length:** 32m
- ▶ **Beam:** 13m
- ▶ **Draft:** 2.5m
- ▶ **Displacement:** 115t
- ▶ **Mast height:** 47m
- ▶ **Mainsail:** 390m²
- ▶ **Gennaker:** 415m²
- ▶ **Genoa:** 210m²
- ▶ **Solent:** 100m²
- ▶ **Storm jib:** 25m²
- ▶ **Engines:** 2 x 455hp Cummins
- ▶ **Fuel capacity:** 2 x 9,000lt
- ▶ **Water capacity:** 2 x 2,650lt
- ▶ **Classification:** Bureau Veritas and MCA
- ▶ **Interior design:** Sunreef Yachts
- ▶ **Construction:** Sunreef Yachts

“This has been a great opportunity and a huge challenge — it includes several unique technical features that have never been used on any other vessel in the world”



TRACKING SYSTEM

Christophe Allan, managing director, Advanced Tracking

Having worked with Sunreef for a number of years Advanced Tracking (AT) is currently supplying devices to all Sunreef catamarans. Working on *CHE* was particularly interesting as it's the largest yacht from the yard. Our AT tracking devices provide comfort and peace of mind for owners and crew by allowing them to locate their yachts in real time.

TO SEE VIDEO of *Che* being launched — and having her mast stepped — simply use your

smartphone to scan the QR code (right). A good QR reader app will automatically redirect you to our informative links and exclusive videos.

