

# RACING YACHTS



A constant quest for stiffness, lightness and reliability has put composite structural engineers at the forefront of the development of Racing Yachts.

Gurit Composite Engineering track record includes some of the most competitive inshore and offshore racing yachts such as America's Cup designs, Volvo 70, Volvo 65, Open 60s, TP52s, Banque Populaire V, Rambler 88, Morning Glory, Wild Oats and many more.

Over the years, one of the main issues for racing yachts structural engineers has become not so much "how to design and build a structure to resist a given load", but rather "what loads should the structure be designed for?" Gurit Composite Engineering has developed a data acquisition capability to tackle this challenge. Several high profile projects have already benefited from our experience in setting up this technology and processing the data collected.

Gurit Composite Engineering team works in close collaboration with Gurit Composite Materials and Processing teams to integrate every aspects of performance into the composite structures.

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## SMALL SAMPLE OF RACING YACHT PROJECTS UNDERTAKEN BY GURIT



**2016**

### Infiniti 46

Gurit engineered the complete composite structure of this 14m canting keel race boat fitted with a Dynamic Stability System (DSS) launched in 2016.

### Volvo 65

Gurit provided data acquisition setup and analysis, and performed FEA of Farr Structural design on these one design ocean-racing monohulls for the 2014 Volvo Ocean Race.

**2014**





**2014**

## Rambler 88

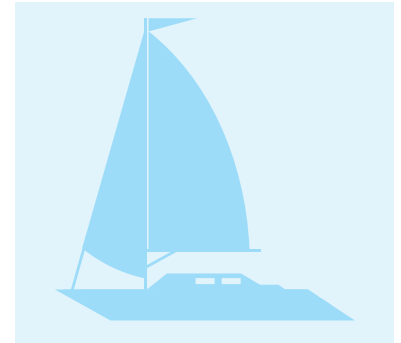
In 2014, Gurit engineered the complete composite structure of this 27m canting keel raceboat.

This boat follows a string of successful maxi racing yachts including Wild Oats XI, Alfa Romeo, Genuine Risk, Maximus and many others.

## Premier Dragon

In 2014, Gurit engineered the complete composite structure of this new generation of Dragon, including advanced numerical optimization of the laminates to maximise the longitudinal stiffness.

**2014**



**2013**

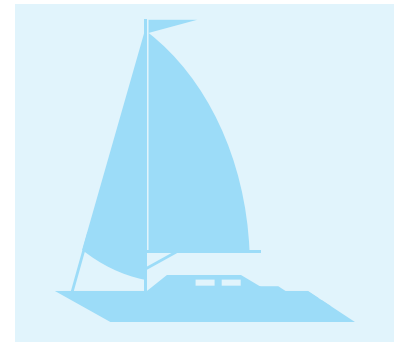
## Carkeek 40

Gurit engineered the complete composite structure.

## Ichiban Carkeek 60

Gurit engineered the complete composite structure.

**2013**



**2012**

## Acciona - Open 60

Gurit engineered the complete composite structure of this ocean-going raceboat which compete in the 2012 Vendée Globe.

Since 1998, Gurit has been responsible for the engineering of ten different IMOCA 60s.



**2009**

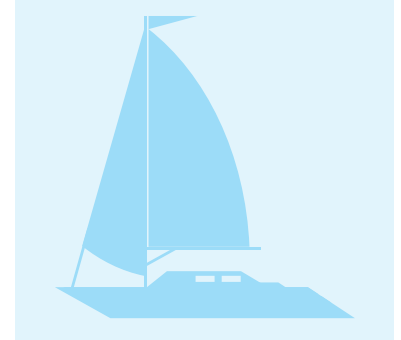
### M34

In 2009, Gurit engineered the main laminates for hull, deck and primary structure as well as the composite rudder, keel and keel structure of the M34, including production optimisation.

### Banque Populaire V

In 2009, Gurit worked in collaboration with HDS to engineer the composite structure of this maxi trimaran.

**2009**



**2008**

### Puma - Volvo 70

Gurit engineered the complete composite structure of this ocean-going raceboat which competed in the 2008 Volvo ocean race.

Prior to this Gurit was responsible for the structural engineering of several VOR 60s including Assa Abloy and Amer Sports One.

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## DIRECT CONTACT



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