

# RACING BOOMS

*Vertical inertia*

# *Max depth*

Sparcraft has developed a new range of high rigidity booms (vertical inertia) for racing or "fast cruising" sailing boats. These new booms will enable us to increase the projected area of the mainsail. The profiles have been specifically designed so that the power of the sail does not get partially absorbed by the deformation of the boom. The foot of the sail is free and the clew is fixed with a strap toward the back of boom.

## PERFORMANCE DESIGN



- The foot of the sail is free and the clew is fixed with a strap toward the back of boom. The whole internal and external components of this new range have been optimised in order to perfectly fit the boom sections in terms of performance and weight.

ly fit the boom sections in terms of performance and weight.

- The main sheet system must be located at the outboard end of the boom or at a maximum distance of 90% of the angle (E).

- **RIGIDITY** : The "max depth" range has been specifically designed so that the power of the sail does not get partially



absorbed by the deformation of the boom.



- **CLEVER CONCEPTION** : The boom end and the toggle have a common root. Many parts have been integrated as much as possible.

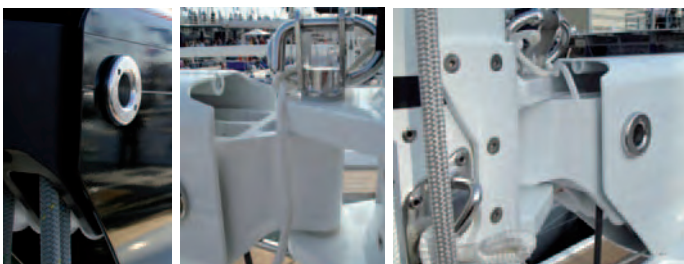
### ■ INTEGRATED SYSTEMS (ATTACHMENTS)

All parts have been designed with ergonomics in mind.

- Built-in vang attachment
- Gooseneck tang to fit an outhaul purchase or cylinder;



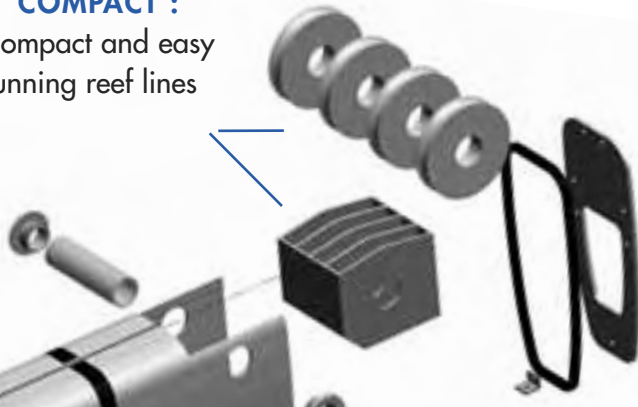
- Integrated automatic reefing system: the automatic reefing line can go through the gooseneck toggle.



+ Max depth

■ **COMPACT :**

Compact and easy running reef lines

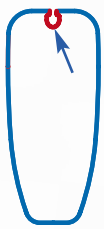


■ **LIGHTNESS :** the sheet is fixed with a loop (or webbing) on a hollow pin. The free loop limits the torsion stress, the constraints are controlled. The loop pin is also used as the sheave pin.

■ **EFFICIENCY :**

the sheet block is fixed towards the back of the boom in order to prevent twisting.

■ **Lazy-jacks :** Lazy jacks or bags integrated in the foot-groove (except R249)



■ **Carbon option (on request)**



**THE ADVANTAGES OF THE SPARCRAFT RACING BOOM**

- High vertical inertia
- Transmission of the mainsail thrust
- Increase mainsail projected area



Photo : Grand Soleil

Performance Design Integration



	Dimensions (mm)	IX' (Cm4)	IY' (Cm4)	Weight (Kg/M)
R249	100 x220	259	1075	4.59
R390	109 x255	410	1837	6.3
R536	118 x280	632	2904	8.15



Photo : Solaris