



STAYFURLERS NEX STRUCTURAL

Performance > Reliability > Simplicity

Developed for offshore racing, the stayfurler is a structural furling system that improves the yacht's overall performance. In the latest years, this system has become an essential piece of equipment for a variety of boats, such as cruisers, racers, day boats, one-designs and others.



Stayfurlers:

NEX
STRUCTURAL

NEX STR STAYFURLER: SAIL ANOTHER WAY!

Are you hard to please, especially when you want to sail another way?
If you're looking for a safe, powerful and easy to use solution, then Profurl's NEX STR stayfurler is for you!



Stayfurlers for everyone

- > Initially reserved for the sailing elite (60' open, ORMA multihulls), stayfurlers are becoming increasingly common on a variety of sailing boats:
 - Cruisers
 - Racers
 - Regatta boats & one-designs
 - Day boats
- > Compatible sail types: genoa, staysail and solent jib.

Fora Marine boatyard has chosen the NEX STR 4.0 stayfurler for the new RM 1060 Performance.



NEX STR overview:

- > 5 standard models available: NEX STR 4.0, 5.0, 8.0, 10.0 and 12.0
- > Upper size models available on request: NEX STR 16.0, 20.0, 30.0 and 40.0
- > Optimal size and weight for a great performance
- > Various end fittings available for every kind of deck layout
- > The greased-immersed systems are watertight and require no maintenance.
- > 3 year Profurl worldwide warranty



Why using a NEX STR stayfurler?

IMPROVE THE PERFORMANCE OF YOUR SAILING BOAT

- > Replacing aluminium extrusions with Kevlar or PBO fiber cables significantly reduces weight (see below).
- > Optimizing the size and weight of the mechanisms maximizes luff and reduces weight considerably.

SAFE, EASY TO USE AND COMFORTABLE

- > The SMART LOCK system enables locking the cable and prevents accidental dismantling without hindering the pin rotation. Entirely integrated into the stayfurler mechanism, the system also prevents adjacent lines from jamming. Available in fork versions.
- > The SAFE SYSTEM on NEX STR stayfurlers allows you to immobilize the furling line when unfurling, thus avoiding accidents and injuries
- > All furling and unfurling are done from the cockpit.
- > The overall weight reduction improves both safety and comfort when sailing.

Example: installing a NEX STR 4.0 stayfurler on the RM 1060 Performance built by Fora Marine.

Total overall weight in Kg

0 to 10 Kg

STAYFURLER NEX STR 4.0
WITH FIBER CABLE
TOTAL WEIGHT: 7,5 KG

10 to 25 Kg

MANUAL FURLER
WITH ROD STAY:
TOTAL WEIGHT: 22,10 KG

25 to 40 Kg

MANUAL FURLER WITH 1X19
STAINLESS STEEL WIRE
TOTAL WEIGHT: 26,90 KG

Weight reduction
between 66 and 74%
WEIGHT REDUCTION
=
INCREASED SAFETY
AND PERFORMANCE

Stayfurlers:

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Performance

S-GRIP: Better line grip

The special groove design, allowing for deformation of the line, ensures:

- better line grip, even when wet!
- easier furling
- minimum line wear



OPTIMAL FURLING: Furl without effort

The optimal spool diameter provides ideal torque, which:

- makes furling easier
- reduces effort



XTRA-LIGHT SYSTEMS: Lightness first

The size and weight of each component (spool, swivel, and terminals) have been optimised to:

- improve sailing performance
- ensure easier handling of the systems



Safety

SAFE SYSTEM: Removable Line

The SAFE SYSTEM enables you to stop the running of the furling line during deployment of sail and thus:

- prevent accidents or damage caused by a free running line.
- manoeuvre more quickly and easily
- prevent excessive wear of the line



SMART LOCK:

Wire lock (only on fork models)

- Wire locking system completely integrated into the drum mechanism
- No need to use a lanyard.
- No risk of jamming caused by adjacent lines.
- Keeps the pin free to turn (no strain).
- Locking indicator on the pin.

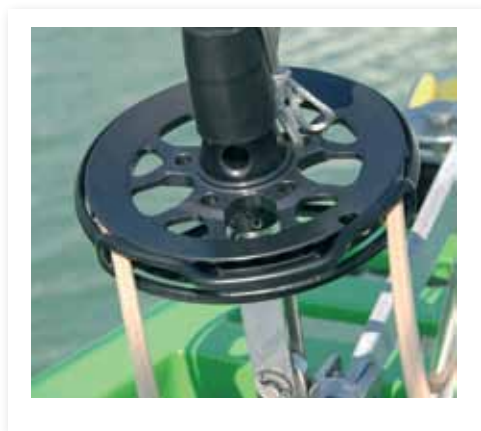




NEX STR MODELS AVAILABLE AS STANDARD

	NEX STR 4.0	NEX STR 5.0	NEX STR 8.0	NEX STR 10.0	NEX STR 12.0
Max working load	4T	5T	8T	10T	12T
Examples	RM 1060	Class 40	RM 1350	50'	Open 60'
Fiber cable terminals	Biconic end fittings (Navtec)		Biconic end fittings or thimbles		
Lower mechanism	Spool		Spool or drum		
Swivel terminals	Eye or lashing eye				
Lower mechanism terminals	Eye, lashing eye or purchase 4:1				

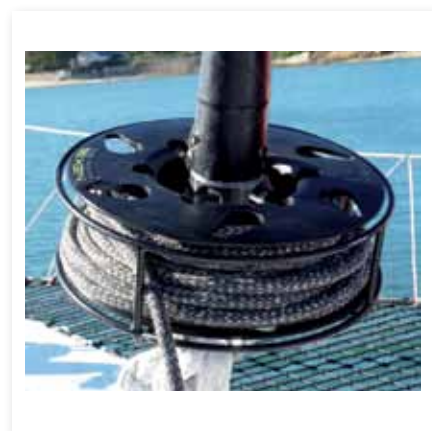
Find out page 66 how to select the right model adapted to your boat



NEX STR 5.0 stayfurler



NEX STR 20 stayfurler on 80' catamaran - Magic Cat - Fitting Atelier Gréement



Stayfurler NEX STR 12.0 - Multihull IDEC 80 feet

NEX STR CUSTOM RANGE AVAILABLE ON DEMAND

	NEX STR 16.0	NEX STR 20.0	NEX STR 30.0	NEX STR 40.0
Max working load	16T	20T	30T	40T
Examples	MOD 70	80'	IDEC multihull	Groupama 3' multihull

Multihull Groupama 3 - 2010 Route du Rhum 40T Stayfurler for staysail



Stayfurlers:

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Fiber cables

Stayfurlers are installed on anti-twist fiber cables, which replace traditional stainless steel wires, to reduce weight and stretching.

There are various types of fiber cables:

- > Kevlar cables (aramid) are a good value for the money and readily available.
- > PBO cables (zylon) are mostly used on racing boats; they are lighter and stronger than Kevlar ones but have a shorter lifespan.

Fiber cables can be installed either on biconic terminals (Navtec solution) or thimbles (Future Fibres, Smart Rigging, Mafioli, etc.)



Frequently asked questions : stayfurlers

Manual furler, flying sail furler and stayfurler: what's the difference? These three systems are very different.

> Maintain the stay

Among these three products, only the stayfurler contributes to maintain the mast through the use of a fiber cable. The full system replaces the extrusions used with other furling systems and thus significantly reduces weight.

> Partial or total furling of the sail?

With all three systems you can sail with the sail fully rolled out, but only the manual furler allows you to set the sail partially furled.

> Removable or not?

Because the stayfurler replaces the stay it is permanent, unlike a flying sail furler which may be removed after every use.

> Combining systems?

Our stayfurlers and flying-sail furlers are complementary and can be used together.

In conjunction with a stayfurler, a flying-sail furler allows the selection of the most adapted sail depending on sailing conditions to optimize the boat performance.

See comparison table on page 7