



STAYFURLERS NEX STRUCTURAL

Performance → Power → Reliability

Developed for offshore racing, the stayfurler is a structural furling system that improves the yacht's overall performance. In recent 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



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

Why choose a stayfurler?

- Stayfurlers are structural systems that are designed to furl structural head sails – the sails that perform the role of forestay and thus consolidate the mast. With a stayfurler you can only sail with the sail fully rolled out. Once rolled up, the sail is “stored” on the forestay.
- Compatible sail types: genoa, staysail and Solent jib.

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
- Working in collaboration with major wire manufacturers, Profurl is available to advise you on which model to choose and the most appropriate end fittings depending on your boat and your sailing program.



Top swivel

Operating principles

- Profurl stayfurlers can unfurl a sail in just few seconds. Unlike with reefing gear, partial sail reduction is not possible.
- System components:
 - a special anti-twist stay (Kevlar or PBO) attached to the drum and to the swivel.
 - a drum mechanism : either with a spool (continuous line) or a drum.
 - a swivel with optimized overall dimensions.
- A sail that has a sleeve throughout the length of the luff with a zip fastener for fitting to the stay.



Multihull IDEC - François Joyon
2010 Route du Rhum
30T stayfurler for solent jib



Performance : minimum weight, maximum luff

→ With minimal stretch and twisting during furling, the anti-twist wires reduce weight by 70% compared to rod stays or standard reefing gear.

→ The mechanism's optimized design provides for maximum luff length and therefore increases sail area (up to 950 mm compared to a manual reefing system). It also offers an incomparable weight to strength ratio.

→ The stitched sleeve on the sail provides an aerodynamic leading edge, which also improves performance.

Safety:

→ Because the stayfurler is structural, it is essential that it cannot be removed accidentally: the locking device on the drum mechanism makes accidental removal impossible.

→ Profurl systems can be disengaged and can immobilize the furling line while the sail is being set in order to avoid any moving furling line related accidents.

→ All setting and furling operations are executed from the cockpit.

Strength and maintenance-free:

→ Fitted with high-strength steel bearings, Profurl mechanisms are definitely tough enough to resist the combined efforts of the sail and the forestay.

→ The grease-immersed bearings are watertight prevent corrosion and require no maintenance.

Advantages of PROFURL's stayfurlers

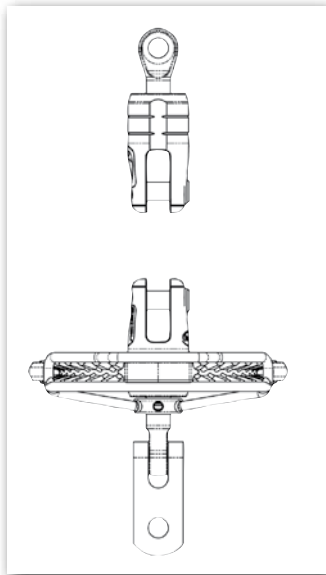
- Wide range of products : continuous line or single line drum systems.
- General improvement to the boat performances : optimized luff and dimensions.
- Ease of operation and enhanced security.
- Ease to fit and to remove.
- Wide range of terminals to attach the system onto the deck: eye...
- Optional titanium 2:1 or 3:1 thimble attachments.
- Maintenance free.
- Tested and guaranteed safe working loads.
- 3 year world wide limited warranty.



NEX Structural - STR 5.0

Stayfurlers:

NEX STRUCTURAL



THE RANGE OF STAYFURLERS

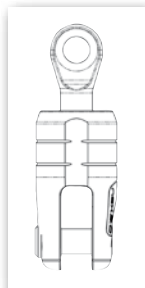
The NEX Structural models are available with either a single line drum or a continuous line spool.

- 3 models available on standard: other sizes on demand
- Drum mechanism with spool allowing the disengagement of the line
- Continuous line (spool version)
- Optimized overall dimensions of the components for maximum luff length.
- Important weight savings.
- The continuous line can not jump off the drum.
- Large diameter of the drum mechanism for an easier use and optimal torque
- Different terminals available.

The whole range of stayfurlers is also available with a drum replacing the spool.

Models	Standard products			Products on demand				
	STR 5.0	STR 8.0	STR 10.0	STR 12.0	STR 16.0	STR 20.0	STR 30.0	STR 40.0
Max Working load	5T	8T	10T	12T	16T	20 T	30T	40T
Breaking load of the Kevlar cable or PBO	14T	17T	19T / 17T	23T / 22T	31T / 28T	43T / 36T	54T / 49T	73T / 65T
Kevlar or PBO cable terminals	Thimbles or sockets							
Drum mechanism	Spool or drum							
Upper terminal on the swivel	Eye, lashing eye (other terminals on demand)							
Lower terminal on the drum mechanism	Eye, lashing eye, (other terminals on demand)							
Replaces a s/s rod stay	# 17	# 17 - # 22	# 22	# 30	# 40	# 48	# 60 - # 76	# 91 - # 115
Replaces a s/s Dyform stay Ø	5/16"	5/16" - 3/8"	3/8"	7/16"	1/2"	9/16" - 5/8"	3/4"	1'
Replaces a s/s 1x19 stay Ø	10 mm (13/32")	11 mm (7/16")	12 mm (1/2")	14 mm (9/16")	16 mm (3/4")	19 mm	22 mm	26 mm - 28mm

Terminal: lashing eye



Terminal: Eye

