

2 Full Batten Systems



sailman
FULL BATTEN SYSTEM

 **BAINBRIDGE**
INTERNATIONAL

sailman

A range of fully integrated batten systems

Almost all boats benefit from upgrading to a fully battened mainsail, but which benefits are most important to you, depends upon the type of sailing you enjoy.

Benefits include:

- **Increased sail area:** Full length battens allow the mainsail's roach to be increased, improving light air performance.
- **Controls flogging:** Makes for more comfortable heavy air sailing and increases sail life.
- **Stabilised sail shape:** Sail draft is held forward as apparent wind increases, creating more forward drive and less heeling.
- **Easier sail handling:** When combined with lazy jacks, lowering and reefing can be controlled from the cockpit.
- **Lighter sailcloth:** Full battens support the cloth on the bias making sails stronger therefore lighter fabrics can be used for cruising applications.

The principle behind Bainbridge International's SAILMAN systems is simple. A range of trackless full batten systems incorporating slides, batten boxes and battens from one supplier with one objective: To provide highly engineered, innovative, effective and good value, fully integrated batten systems to suit most yachts from 22 to 50ft.



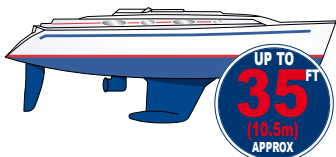
FULLY INTEGRATED BATTEN SYSTEMS

for boats from 22 to 50 feet

sailman3000



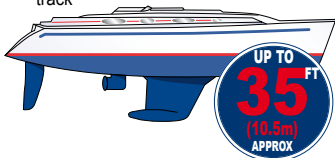
- Precision moulded plastic slides
- Solid hinge system with 'lay-flat' rotation
- Flat and round batten options with integral tension adjuster



sailman3500



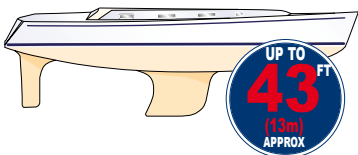
- Ideal for composite spars
- Used with wing masts
- Suits gates that are proud of sail track



sailman4000



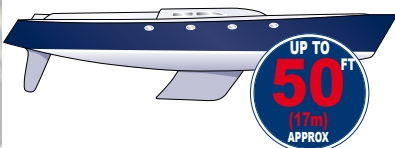
- Low friction sliders with stainless reinforced I-beam
- Cast stainless hinge with 'lay-flat' rotation
- Battens up to 10mm thick



sailman4000HD



- Low friction sliders with stainless reinforced I-beam
- Cast stainless hinge with 'lay-flat' rotation
- Tough, durable construction
- Battens 30mm x 12.7mm or 16mm round



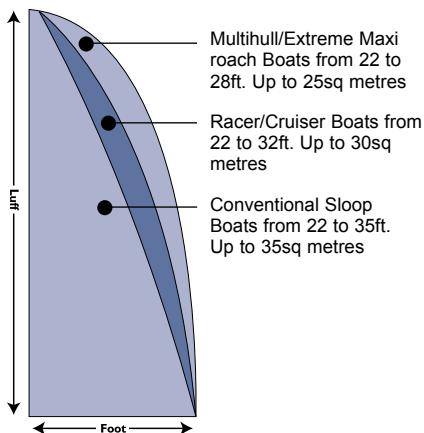
Sailman3000

For boats from 22 to 35 feet

Sailman 3000 is a compact integrated full batten system for boats

below 35 feet. Like all Sailman systems it features innovative engineering, detailed design features and quality materials at a very affordable price.

Designed for use with most modern internal mast tracks, Sailman 3000 is easy to use and simple to maintain.

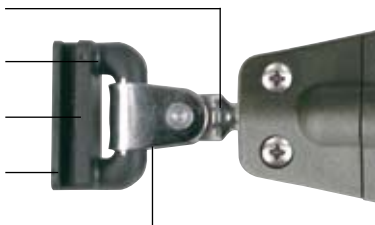


In-mast sliders & strap linkage. Beautifully moulded from an advanced low friction plastic, Sailman 3000 slides are available in seven different designs to suit most modern mast sections. Reinforced with glass fibre and impregnated with PTFE, the high compression loads generated by full battens are transferred directly to the aft face of the mast through the integrated compression pad.

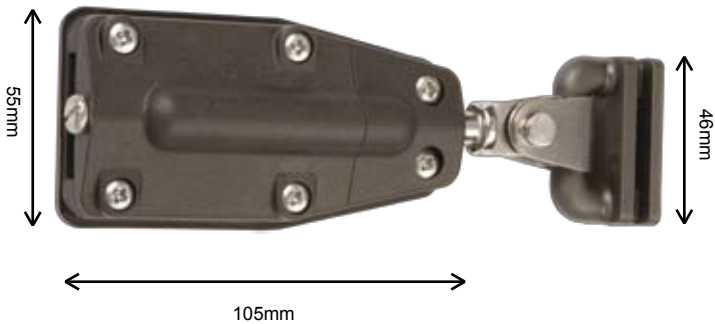
The compact design ensures low stack height and easy loading through the feeding gate while the super strong, all stainless strap linkage allows full rotation of the batten box.



- Cast stainless M10 connector arm
- Glass fibre reinforced and PTFE impregnated slide
- Compression pads transfer load directly to mast
- Range of 7 different slug and flat slide designs
- Stainless steel strap allows exceptional rotation

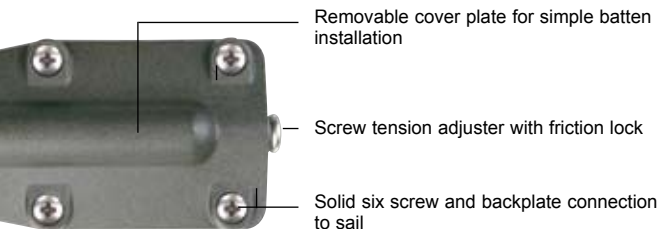


FULLY INTEGRATED BATTEN SYSTEMS



Luff boxes. Series 25 luff boxes connect to the slide with a cleverly concealed M10 connecting thread, allowing compatibility with Sailman 3000, 3500 and 4000 slides, as well as most other slide systems. The cover plate design allows easy installation and removal of battens, while the body remains fastened to the sail. Sailman 25 series luff box has been designed for small boat applications, such as cruising sloops, up to about 30ft.

- Tough injection moulded construction.
- Integrated tension adjustment system with friction lock.
- Accommodates battens up to 30mm x 5.5mm.
- Top plate design allows simple batten fitting and removal.
- Moulded M10 thread.



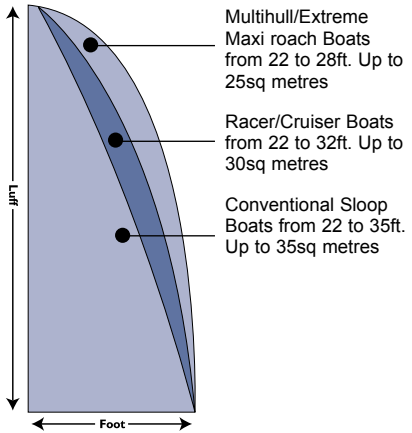
Sailman 3500

For boats from 22 to 35 feet

The Sailman 3500 system has been specifically designed to fit a full batten sail on three of the most difficult types of spars.

- Alloy spars with sail feeding gates that are proud of the aft face of the mast.
- Composite spars.
- Alloy and composite wing masts.

Only our unique knowledge of both sailmaking and mastmaking has made the design of Sailman 3500 possible.



Batten slides. Sailman 3500 slides are designed to run inside the mast groove and unlike Sailman 3000 and 4000 slides do not bear on the aft face of the mast. This allows them to run past feeding gates and to slide in very narrow grooves on composite and wing masts. To prevent wear on composite spars the slides have no exposed metal parts.

The smallest slug version has a waist of just 3.4mm allowing it to fit the narrowest of grooves.



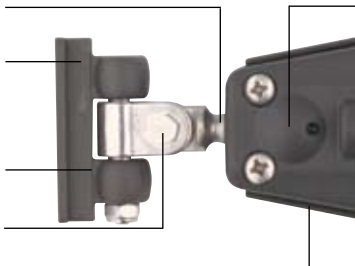
Cast stainless steel M10 connector arm

Glass fibre reinforced and PTFE impregnated slide

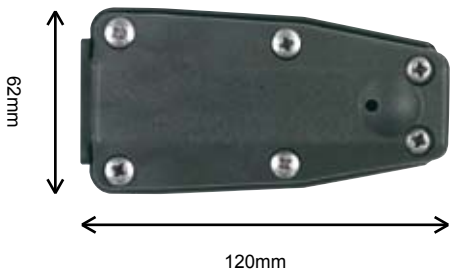
Range of 4 different slug and flat slide designs

Fully articulating stainless steel joints

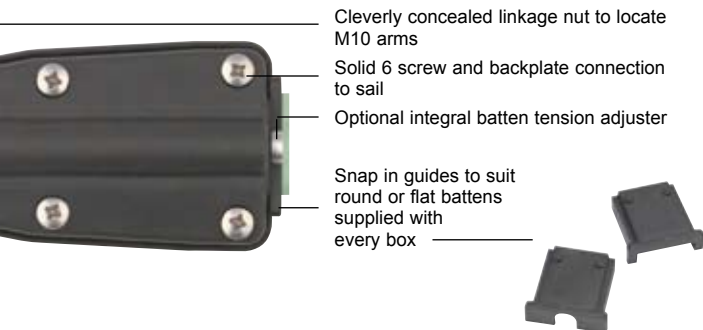
Intermediate plate reduces sail wear



FULLY INTEGRATED BATTEN SYSTEMS



Luff boxes. Series 35 luff boxes connect to the slide with a cleverly concealed M10 nut that provides a solid connection and full lay flat rotation of the batten. The long housing ensures the batten remains in place while the supplied batten guides allow the choice of either 10mm round or 30mm flat battens and provide the additional benefit of an integral screw tension adjusting system.

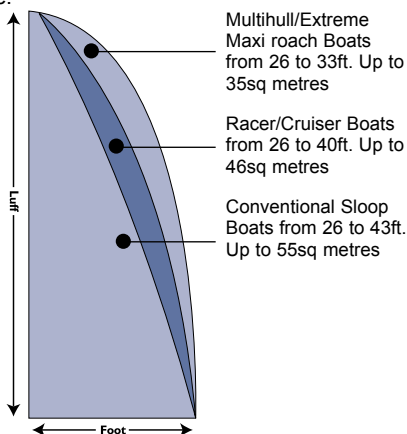


Sailman 4000

For boats from 26 to 43 feet

The 4000 version of the Sailman concept proves that it is possible to have a well thought out, efficient and highly engineered in-mast system that is also affordable.

Sailman 4000's pedigree guarantees that it is easy to install, use and maintain. It is ideal for most modern internal track masts on boats up to 43ft (13m) and comprises; low friction mast sliders, robust batten boxes and a range of specially designed battens.



In-mast sliders. Sailman sliders are available with a variety of slugs designed to run in most modern masts. All moulded parts utilise the latest plastic technology to combine low friction operation, durability and strength. In addition, all slugs benefit from a stainless steel I-beam inserted during the moulding process.



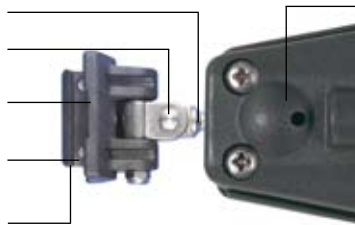
Cast stainless steel M10 connector arm

Fully articulating, stainless steel joints

Low friction dimpled wear pads distribute compression loads directly on to the aft face of mast

All slugs feature stainless I-beam steel inserts for increased strength

Fibre stabilised, high-grade materials with low friction PTFE impregnated slugs and body



FULLY INTEGRATED BATTEN SYSTEMS



Series 35 luff boxes connect to the slide with a cleverly concealed M10 nut that provides a solid connection and full lay flat rotation of the batten. The long housing ensures the batten remains in place while the supplied batten guides allow the choice of either round or 30mm flat battens. With the additional benefit of an integral screw tension adjusting system.



Series 55 luff boxes connect to the slide's hinged arm using an M10 thread. Battens can be easily removed from the luff end by removal of the cover plate. They are moulded from tough high grade Nylon and are supplied with three covers to allow the choice of 40mm flat, 30mm flat or 12m round batten.



Cleverly concealed linkage nut to locate M10 arms

Solid 6 screw and backplate connection to sail

Optional integral batten tension adjuster

Snap in guides to suit round or flat battens supplied with every box

U01531 Adjustable 30mm x 6.3mm or 10mm rod

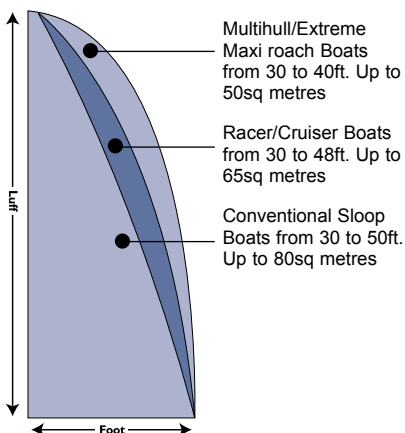
U01532 Adjustable 30mm x 12.7mm or 16mm rod



Sailman 4000HD

For boats from 30 to 50 feet

The 4000HD version of the Sailman concept provides a super strong step up from the standard 4000 system, allowing a simple in mast solution for yachts up to 50 feet which can be retro-fitted to many modern mast profiles. The fact that it is an in mast system makes it an obvious choice to save time and money when compared to costly and difficult to fit track systems.

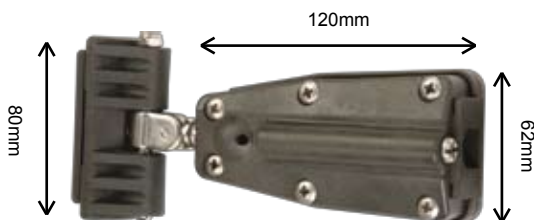
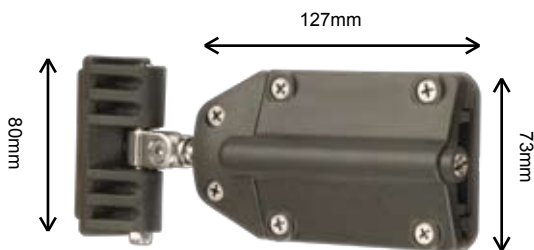


The New Sailman 4000HD car is 80mm overall in length with a 68mm slug which is reinforced with a full width stainless steel I-beam insert giving it the strength to deal with the application. The new HD car is completely compatible with the existing Sailman 4000 system utilising the same proven M10 connections.



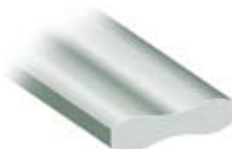
FULLY INTEGRATED BATTEN SYSTEMS

Sailman 4000HD Cars are compatible with both Series 35 and Series 55 batten boxes.



Sailman Battens have been specifically designed for full batten systems. Based on a common 30mm width, nine different stiffness' are available. Your Sailmaker will know which batten to choose for the individual profile of your sail.

- Designed specifically for full battened sails.
- Larger sizes feature a unique profile to maximise stiffness and are manufactured from tough vinylester.
- Super smooth finish to prevent splintering.
- High stiffness/weight ratio.
- Logical and sequential stiffness options based on common 30mm width.



With a full range of sailcloth, sailmakers hardware and a global sales and support network, Bainbridge is uniquely qualified and committed to supplying the world with the finest quality materials. Founded in 1917, Bainbridge International is one of the longest established sailcloth manufacturers in the world with almost a century's experience in developing and supplying the highest quality, highest performance materials to the marine industry.

Bainbridge has always been at the forefront of technical developments within the world of sailcloth. Through the skills of the technical team, we have developed a number of products including AIRX Performance Spinnaker Fabrics, MP Multi-Purpose Spinnaker Fabrics, DIAX Laminated Sailcloth and SAILMAN Full Batten Systems. These have been used by many high profile campaigns including America's Cup, Vendee Globe, Volvo 60 and BT Global Challenge.

Leaflets in the Range

There are 7 other leaflets in the range that offer advice on our other sailcloth ranges and our SAILMAN Full Batten Systems. These are available from your Sailmaker.

www.sailcloth.com - 5 simple steps to better sails

We have developed an easy to use website that offers advice and recommendations about the correct sailcloth for your needs. With 5 simple steps to follow, you can develop an understanding for the benefits of the sailcloth styles we offer and comprehend which one meets your needs.

Partnership

Your Sailmaker is the essential link between our fabric technology and your boat. They offer Bainbridge fabrics because of the inherent trust that the excellence of their workmanship, combined with the quality of our products, will provide you, the Customer, with the best possible value and performance.

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