

**CHALLENGE**  
**AIRCLOTH**  
**HARDWARE**



# CHALLENGE AIRCLOTH

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## HARDWARE

# HARDWARE AND SUPPLIES FOR SAILMAKING, CANVAS FABRICATING AND INDUSTRIAL SEWING APPLICATIONS

ACCEPTED



<i>Insignia, Draft Stripe, Spreader Patch, Adhesive Sail Numbers, Aramid Patch, Spectra Patch, Seamstick, Repair Tape</i>	<b>ADHESIVES</b>
<i>Batten Stock, Batten Pocket Protectors, Batten Receptacles, End Caps, Buckles, Bluestreak and RBS Battens</i>	<b>BATTENS</b>
<i>Rutgerson Batten Cars, Rutgerson Receptacles, Tye-Tec Receptacles, Battslide® Receptacles, Battslide® Slides</i>	<b>FULL BATTEN HARDWARE</b>
<i>Internal and External Mast Slides, Outhaul Cars, Compression Slides, Jib Hanks, Snap Hooks, Sister Clips, Plastic and Stainless Steel Shackles</i>	<b>SLIDES</b>
<i>Plastic, Nylon, Stainless and Aluminum Leechline Cleats, Clamcleats, Mast Hoops and Fasteners</i>	<b>CLEATS</b>
<i>Welded Stainless Rings, Solid Brass Rings, Plastic Rings, Clew Blocks, Thimbles, Micropress Sleeves and Tools</i>	<b>RINGS &amp; THINGS</b>
<i>Plastic, Composite and Aluminum Headboards, Clewboards, Headboard Liners, Rivets, Closing Tools</i>	<b>HEADBOARDS &amp; CLEWBOARDS</b>
<i>Rutgerson Titanium and Stainless Super Rings, Rutgerson Closing Tools, Brass and Nickel Plated Grommets, Grommet Closing Tools, Hole Cutters</i>	<b>GROMMETS &amp; GROMMET TOOLS</b>
<i>Sewing Machine Needles, Handsewing Needles, Mallets, Shears, Hot Knives, Staplers, Awls, Pushpins, Rulers</i>	<b>TOOLS</b>
<i>Pattern Material, Flexible Vinyl Window Material, Strataglass™, Mono Film, Leather, Cleaners and Waterproofers, Mildew Remover</i>	<b>PATTERN &amp; WINDOW MATERIAL</b>
<i>Nylon Tapes, Dactape, Colored Tapes, UV Tapes, Boltrope, Luff Tape, TuffLuff</i>	<b>TAPES</b>
<i>Nylon Webbing, Polyester Webbing, Kevlar Webbing, Spectra / Dyneema® Webbing, Polypropylene Webbing, Batten Pocket Elastic, Buckles</i>	<b>WEBBING &amp; BUCKLES</b>
<i>Nylon Hook and Loop, Polyester Hook and Loop, Coil Zippers, Vislon® Zippers, Zipper Sliders, Jacket Zippers, Zipper Stops</i>	<b>VELCRO® &amp; ZIPPERS</b>
<i>American &amp; Efird Polyester Thread, Heminway &amp; Bartlett Dabond Polyester Thread, Bellbobs, PTFE Thread, Tenara Gore-Tex Thread, Sailtwine, Beeswax</i>	<b>THREAD &amp; ACCESSORIES</b>
<i>Dacron Leechline, Technora® Leechline, Dyneema® Leechline, Bag Cord, Dacron 3-Strand Rope, Luffline, Shockcord, Shockcord Clamps</i>	<b>LINE &amp; CORDAGE</b>
<i>Weblon Binding, Sunbrella Binding</i>	<b>BINDING TAPE</b>
<i>Canopy Fittings, Flex-A-Rail, Keder Welt</i>	<b>FLEX-A-RAIL &amp; CANOPY FITTINGS</b>
<i>Cover Hooks, Hole Cutters, Tool &amp; Die Set, Durable-Dot Snaps, Turnbutton Fasteners, Lift-The-Dot Fasteners, YKK® SNAD® Snaps</i>	<b>SNAP TOOLS &amp; FASTENERS</b>

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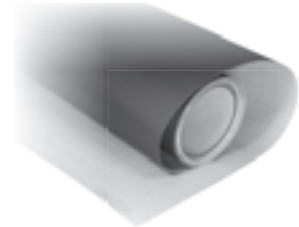


## Polyester Insignia Fabric

Made from a light-weight 70 x 100 denier taffeta which is laminated with 2 mils of a very aggressive, high-tack, non-yellowing acrylic adhesive formulated not to leave glue deposits on sails when removed. 3.25 sailmaker's ounces. Cut lengths available upon request.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
INW	Polyester Insignia Fabric	White	56.75"	50	Yards
INBU	Polyester Insignia Fabric	Blue	56.75"	50	Yards
INBK	Polyester Insignia Fabric	Black	56.75"	50	Yards
INR	Polyester Insignia Fabric	Red	56.75"	50	Yards
ING	Polyester Insignia Fabric	Green	56.75"	50	Yards
INGY	Polyester Insignia Fabric	Gray	56.75"	50	Yards
INAG	Polyester Insignia Fabric	Aramid Gold	56.75"	50	Yards
INFP*	Polyester Insignia Fabric	Fl. Pink	56.75"	50	Yards
INFY*	Polyester Insignia Fabric	Fl. Yellow	56.75"	50	Yards
INFO*	Polyester Insignia Fabric	Fl. Orange	56.75"	50	Yards
INFG*	Polyester Insignia Fabric	Fl. Green	56.75"	50	Yards

\* Fluorescent colors are special order and not generally stocked.

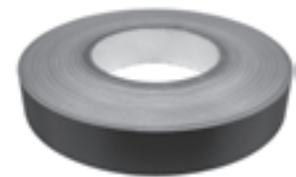


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## Polyester Draft Stripe

Precision slit from our Polyester Insignia fabric (listed above). Draft stripes are placed on racing sails and provide a way to visually monitor sail shape.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
IDBUP	Polyester Draft Stripe	Blue	1"	50	Full Rolls
ID2BUP	Polyester Draft Stripe	Blue	2"	50	Full Rolls
ID3BUP	Polyester Draft Stripe	Blue	3"	50	Full Rolls
IDBKP	Polyester Draft Stripe	Black	1"	50	Full Rolls
ID2BKP	Polyester Draft Stripe	Black	2"	50	Full Rolls
ID3BKP	Polyester Draft Stripe	Black	3"	50	Full Rolls
IDRP	Polyester Draft Stripe	Red	1"	50	Full Rolls
ID2RP	Polyester Draft Stripe	Red	2"	50	Full Rolls
ID3RP	Polyester Draft Stripe	Red	3"	50	Full Rolls
IDGP	Polyester Draft Stripe	Green	1"	50	Full Rolls
ID2GP	Polyester Draft Stripe	Green	2"	50	Full Rolls
ID3GP	Polyester Draft Stripe	Green	3"	50	Full Rolls
IDGYP	Polyester Draft Stripe	Gray	1"	50	Full Rolls
ID2GYP	Polyester Draft Stripe	Gray	2"	50	Full Rolls
ID3GYP	Polyester Draft Stripe	Gray	3"	50	Full Rolls
IDAGP	Polyester Draft Stripe	Aramid Gold	1"	50	Full Rolls
ID2AGP	Polyester Draft Stripe	Aramid Gold	2"	50	Full Rolls
ID3AGP	Polyester Draft Stripe	Aramid Gold	3"	50	Full Rolls
ID4AGP	Polyester Draft Stripe	Aramid Gold	4"	50	Full Rolls



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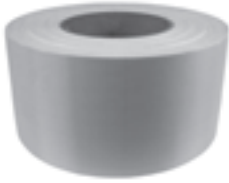
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# Polyester Insignia Products

## Polyester Insignia Tape

Precision slit from our Polyester Insignia fabric into convenient widths for seam reinforcement, protection or repair. Custom widths available by roll, extra slitting charges apply.



PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
INT1P	Polyester Insignia Tape	White	1"	50	Full Rolls
INT2P	Polyester Insignia Tape	White	2"	50	Full Rolls
INT3P	Polyester Insignia Tape	White	3"	50	Full Rolls
INT4P	Polyester Insignia Tape	White	4"	50	Full Rolls
INT6P	Polyester Insignia Tape	White	6"	50	Full Rolls

## Polyester Spreader Patch Tape

Precision slit from our Polyester Insignia fabric into convenient widths for spreader and stanchion reinforcement patches.



PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
INT18P	Polyester Spreader Patch	White	18"	50	Full Rolls
INT27P	Polyester Spreader Patch	White	27"	50	Full Rolls

## Digital 8 Adhesive Sail Numbers

Cut from our Polyester Insignia fabric, the aggressive adhesive is formulated not to leave glue deposits on sails when numbers are removed. Cut away sections of these "Digital #8" numbers to make any alpha-numeric character that you need.

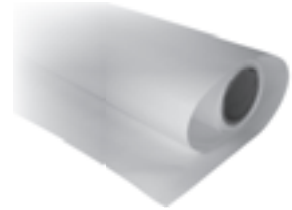


PART	DESCRIPTION	COLOR	WIDTH	QTY/PKG	ORDER BY
ISN8BK-8	Digital 8 Sail Number	Black	8"	10	Package
ISN8BK-12	Digital 8 Sail Number	Black	12"	10	Package
ISN8BK-15	Digital 8 Sail Number	Black	15"	10	Package
ISN8BL-8	Digital 8 Sail Number	Blue	8"	10	Package
ISN8BL-12	Digital 8 Sail Number	Blue	12"	10	Package
ISN8BL-15	Digital 8 Sail Number	Blue	15"	10	Package
ISN8RD-8	Digital 8 Sail Number	Red	8"	10	Package
ISN8RD-12	Digital 8 Sail Number	Red	12"	10	Package
ISN8RD-15	Digital 8 Sail Number	Red	15"	10	Package
ISN8GN-8	Digital 8 Sail Number	Green	8"	10	Package
ISN8GN-12	Digital 8 Sail Number	Green	12"	10	Package
ISN8GN-15	Digital 8 Sail Number	Green	15"	10	Package

## TiO<sup>2+</sup> UV Coated Insignia Fabric

Made of tough 150 denier taffeta with special UV resistant coating, TiO<sup>2+</sup> is an excellent solution for performance oriented roller furling sails where UV protection and light weight are required. Pressure sensitive adhesive is designed to stick permanently, but if removed, glue will come off with taffeta, not stick to sail. 3.84 sailmaker's ounces.

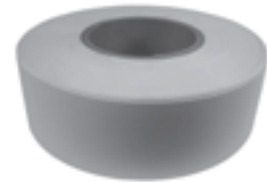
PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
IUV17	UV Coated Insignia Fabric	White	17"	50	Full Rolls
IUV26	UV Coated Insignia Fabric	White	26"	50	Full Rolls
IUV54	UV Coated Insignia Fabric	White	54"	50	Yards



## TiO<sup>2+</sup> UV Coated Insignia Tape

Precision slit from our UV Insignia fabric in convenient for roller-furling touch-ups, leech and foot protection or any other applications that require UV resistance.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
IUV1	UV Coated Insignia Tape	White	1"	50	Full Rolls
IUV2	UV Coated Insignia Tape	White	2"	50	Full Rolls
IUV3	UV Coated Insignia Tape	White	3"	50	Full Rolls
IUV4	UV Coated Insignia Tape	White	4"	50	Full Rolls
IUV6	UV Coated Insignia Tape	White	6"	50	Full Rolls



## Aramid Patch

Aramid Patch is designed for use as spreader and stanchion patches on Kevlar sails. Constructed of approximately 20K total denier per inch of aramid fibers with a polyester fill. Actual weight is about 6 oz including 1/2 mil mylar and our super adhesive backing.

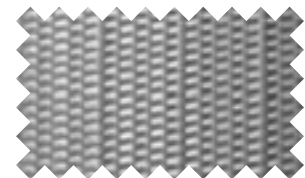
PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
MKV16PSA	Aramid Patch	Gold	54"	50	Yards



## Spectra Patch

Spectra warp x Spectra/Polyester fill with 1.0 mil mylar, PSA and release paper. Excellent for large boat spreader and stanchion patches.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
MSP27PSA	Spectra Patch	White	54"	50	Yards



## Polyester Reinforced Monofilm with PSA

Our durable MNX3 3 mil polyester reinforced monofilm laminated to an aggressive pressure sensitive adhesive for repairs or constructing load-path sails. Great for windsurfer and catamaran/skiff sail repair.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
MNX3PSA	Polyester Reinforced Monofilm with PSA	Clear / B&W Poly X-ply	54"	50	Yards

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## Tedlar® UV Film



Flexible, highly UV resistant Tedlar film coated with pressure sensitive adhesive on one side. Use to protect exposed areas on roller furling sails. 1.92 oz/sq yd. Subject to Tedlar availability – please inquire.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
YTE1	Tedlar UV Film	Clear	1"	50	Rolls
YTE2	Tedlar UV Film	Clear	2"	50	Rolls
YTE3	Tedlar UV Film	Clear	3"	50	Rolls
YTE18	Tedlar UV Film	Clear	18"	50	Rolls
YTE27	Tedlar UV Film	Clear	27"	50	Rolls
YTE54	Tedlar UV Film	Clear	54"	50	Yards

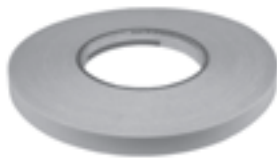
## Dacron Seamstick



Polyester taffeta with double sided adhesive. Recommended for use when seaming laminate sails, the taffeta will help prevent seam slippage and tearing.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	ORDER BY
IDSH	Dacron Seamstick	White	1/2"	50	Rolls
IDST	Dacron Seamstick	White	3/4"	50	Rolls
IDS1	Dacron Seamstick	White	1"	50	Rolls
IDS2	Dacron Seamstick	White	2"	50	Rolls

## Non-Yellowing Seamstick



Mylar carrier with non-yellowing double sided acrylic adhesive. Excellent tack properties.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	QTY/ CASE	ORDER BY
AS2	Non-Yellowing Seamstick	White	1/4"	72	144	Rolls
AS3	Non-Yellowing Seamstick	White	3/8"	72	96	Rolls
AS4	Non-Yellowing Seamstick	White	1/2"	72	72	Rolls
AS5	Non-Yellowing Seamstick	White	5/8"	72	60	Rolls
AS6	Non-Yellowing Seamstick	White	3/4"	72	48	Rolls
AS8	Non-Yellowing Seamstick	White	1"	72	36	Rolls

## Super-Tack Seamstick by Venture Tape



0.5 mil polyester film coated on both sides with 3 mils of an ultra high peel acrylic adhesive. Designed to immediately adhere to most types of sail material and Sunbrella without heat assist. Used by many sailmakers to seam spinnakers without sewing.

PART	DESCRIPTION	COLOR	WIDTH	YD/ROLL	QTY/ CASE	ORDER BY
ASV2	Super-Tack Seamstick	White	1/4"	60	96	Rolls
ASV3	Super-Tack Seamstick	White	3/8"	60	64	Rolls
ASV4	Super-Tack Seamstick	White	1/2"	60	48	Rolls
ASV5	Super-Tack Seamstick	White	5/8"	60	76	Rolls
ASV6	Super-Tack Seamstick	White	3/4"	60	32	Rolls
ASV8	Super-Tack Seamstick	White	1"	60	24	Rolls

## 3M Super Transfer Tape

This double-sided transfer tape is all glue and no carrier. The result is an elastic tape that stretches thus eliminating hard spots on seam lines. Perfect choice for light air sails such as spinnakers where seam stretch is desired. In independent tests this tape holds best to Challenge's stabilized finish sailcloth. Use 5 mil for slippery surfaces.

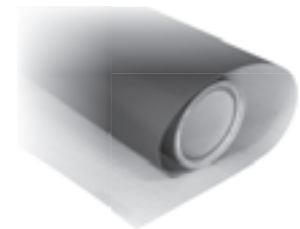
PART	DESCRIPTION	COLOR	MIL	WIDTH	YD/ ROLL	QTY/ CASE	ORDER BY
AS3M4-2	3M Transfer Tape	Clear	2 mil	1/2"	60	72	Rolls
AS3M8-2	3M Transfer Tape	Clear	2 mil	1"	60	36	Rolls
AS3M4	3M Transfer Tape	Clear	5 mil	1/2"	60	72	Rolls
AS3M6	3M Transfer Tape	Clear	5 mil	3/4"	60	48	Rolls
AS3M8	3M Transfer Tape	Clear	5 mil	1"	60	36	Rolls



## Sail Repair Tape

Nylon Ripstop coated with pressure sensitive adhesive.

PART	DESCRIPTION	COLOR	WIDTH	LENGTH	ORDER BY
IRN	Sail Repair Tape	Natural	2"	25'	Rolls
IRR	Sail Repair Tape	Red	2"	25'	Rolls
IRDB	Sail Repair Tape	Dark Blue	2"	25'	Rolls
IRLB	Sail Repair Tape	Light Blue	2"	25'	Rolls
IRY	Sail Repair Tape	Yellow	2"	25'	Rolls
IRG	Sail Repair Tape	Green	2"	25'	Rolls
IRO	Sail Repair Tape	Orange	2"	25'	Rolls
IRBK	Sail Repair Tape	Black	2"	25'	Rolls
IRGY	Sail Repair Tape	Gray	2"	25'	Rolls
IRCG	Sail Repair Tape	Coast Gold	2"	25'	Rolls
IRFP	Sail Repair Tape	Fl. Pink	2"	25'	Rolls
IRFG	Sail Repair Tape	Fl. Green	2"	25'	Rolls
IRFY	Sail Repair Tape	Fl. Yellow	2"	25'	Rolls



## Rigging Tape

Heavy gauge white vinyl tape that is highly weather and abrasion resistant, sticks while stretched. Provides excellent conformity to spreader ends and rigging.

PART	DESCRIPTION	COLOR	WIDTH	LENGTH	ORDER BY
AR3	Rigging Tape	White	3/4"	64	Rolls



## Batten Tape

Recommended for use with Rutgerson batten connectors (listed on page 12).

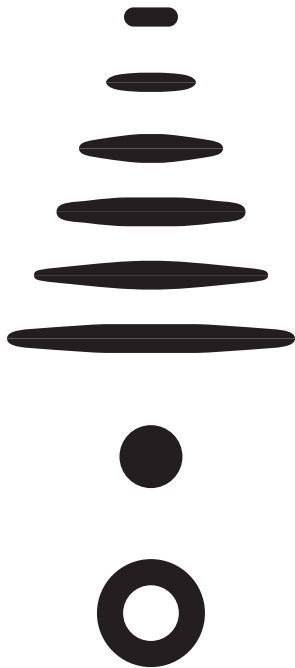
PART	DESCRIPTION	COLOR	WIDTH	LENGTH	ORDER BY
BR2977-25	Batten Tape	White	1"	2 m	Rolls



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**CHALLENGE  
SAILCLOTH**  
**HARDWARE**



shown at 75%

## Pultruded Fiberglass Non-Tapered Batten Stock

Economical non-tapered batten stock available in both flat and round profiles. All sizes available in 100 foot lengths by special order only. Please inquire.

\* These sizes can be coiled for UPS shipment, but are more susceptible to breakage (especially when coiled) than our vinyl ester or epoxy battens. Sorry, we can ship at customer risk only.

PART	DESCRIPTION	PROFILE	WIDTH/DIA	FT/LENGTH	ORDER BY
BA3A*	Batten Stock	Flat	9.5 mm (3/8")	22	Full Lengths
BA5A*	Batten Stock	Flat	16 mm (5/8")	22	Full Lengths
BAT1*	Batten Stock	Flat	25 mm (1")	22	Full Lengths
BA6B*	Batten Stock	Flat	33 mm (1-5/16")	22	Full Lengths
BA8C*	Batten Stock	Flat	41 mm (1-5/8")	22	Full Lengths
BAT2	Batten Stock	Flat	51 mm (2")	22	Full Lengths

BR4*	Batten Stock	Rod	6.4 mm (1/4")	22	Full Lengths
BR5*	Batten Stock	Rod	8 mm (5/16")	22	Full Lengths
BR6	Batten Stock	Rod	9.5 mm (3/8")	22	Full Lengths
BR7	Batten Stock	Rod	11 mm (7/16")	22	Full Lengths
BR10	Batten Stock	Rod	16 mm (5/8")	24	Full Lengths
BR12	Batten Stock	Rod	19 mm (3/4")	24	Full Lengths

BT2	Batten Stock	Tubular	13 mm (1/2")	22	Full Lengths
BT3	Batten Stock	Tubular	19 mm (3/4")	24	Full Lengths

## Rutgerson Aluminum Round Batten Connectors

Fit round battens. Make it possible to connect battens of equal or different diameters. Connect different sized battens to create "tapered" batten effect in sail or use same-sized connectors to allow long battens to be broken down for shipment.



PART	DESCRIPTION	FITS DIA	FITS DIA	ORDER BY
B1548-0406	Round Connector	4 mm, 6 mm	5/32", 1/4"	Each
B1548-0608	Round Connector	6 mm, 8 mm	1/4", 5/16"	Each
B1548-0810	Round Connector	8 mm, 10 mm	5/16", 25/64"	Each
B1548-1013	Round Connector	10 mm, 13 mm	25/64", 1/2"	Each
B1548-1316	Round Connector	13 mm, 16 mm	1/2", 5/8"	Each

B1548-0606	Round Connector	6 mm	1/4"	Each
B1548-0808	Round Connector	8 mm	5/16"	Each
B1548-1010	Round Connector	10 mm	25/64"	Each
B1548-1313	Round Connector	13 mm	1/2"	Each
B1548-1616	Round Connector	16 mm	5/8"	Each

## Rutgerson Stainless Round Batten Connectors

Made from stainless steel, these strong batten connectors join same-sized round batten stock and prevent separation using a set screw. Connectors are intended to be epoxied onto batten stock. Ultra-low profile allows for long vertical battens often used with in-mast furling systems. Also convenient for breaking down full-length battens that are too long to ship UPS (over 108").

PART	DESCRIPTION	FITS DIA	FITS DIA	ORDER BY
B1547-06	SS Round Connector	6 mm	1/4"	Each
B1547-08	SS Round Connector	8 mm	5/16"	Each
B1547-10	SS Round Connector	10 mm	25/64"	Each



## Rutgerson Stainless Round Batten End Caps

Easily adapt round batten stock to be used with a webbing, elastic or hook and loop batten pocket closure. Designed to be epoxied onto batten stock.

PART	DESCRIPTION	FITS DIA	FITS DIA	QTY/PKG	ORDER BY
BC1545-06-57	SS Round End Cap	6 mm	1/4"	1	Each
BC1545-06-85	SS Round End Cap	6 mm	1/4"	1	Each
BC1545-06-150	SS Round End Cap	6 mm	1/4"	1	Each
BC1545-08-57	SS Round End Cap	8 mm	5/16"	1	Each
BC1545-08-85	SS Round End Cap	8 mm	5/16"	1	Each
BC1545-08-150	SS Round End Cap	8 mm	5/16"	1	Each
BC1545-10-57	SS Round End Cap	10 mm	25/64"	1	Each
BC1545-10-85	SS Round End Cap	10 mm	25/64"	1	Each
BC1545-10-150	SS Round End Cap	10 mm	25/64"	1	Each



## Batten End Caps

Plastic caps are designed to fit our most popular pultruded batten stock sizes (see pg 12). Use on ends of battens to reduce batten chafe on batten pocket ends and elastic.

PART	DESCRIPTION	WIDTH	FOR BATTEN	QTY/PKG	ORDER BY
BC5	End Cap	5/8"	BA5A	100	Each
BC6	End Cap	1 5/16"	BA6B	100	Each
BC8	End Cap	1 5/8"	BA8C	100	Each



## Vinyl Batten End Caps

Vinyl batten end caps fit our pultruded batten stock sizes. Reduce chafe on batten pocket ends and elastic; vinyl material stays on batten ends without needing glue.

PART	DESCRIPTION	WIDTH	FOR BATTEN	QTY/PKG	ORDER BY
BC1V	Vinyl End Cap	1"	BAT1	100	Each
BC5V	Vinyl End Cap	5/8"	BC5	100	Each



## Plastidip – Batten End Protection

Liquid plastic for batten end protection, just dip and dry.

PART	DESCRIPTION	COLOR	CAN SIZE	QTY/PKG	ORDER BY
BPD	Plastidip	Black	16 fl oz	1	Each



## Catamaran Jib Batten Pocket Protectors



For use on luff of small full-batten catamaran jibs and dinghy mainsails where small size and light weight are desirable.

PART	PROTECTOR DESCRIPTION	REQUIRED HARDWARE	MAX WIDTH	QTY/ PKG	ORDER BY
BPJ	Catamaran Jib (2 Halves)	1/8" x 1/2" Rivets*	3/4"	50	Sets

\* Hardware not included, see GRIG2A/GRIV3A on page 69.

## Catamaran Batten Pocket Protectors



Commonly used on catamaran mains, but also can be used on inboard end of full batten mainsails.

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPS	Catamaran (2 Halves)	Stainless Steel Nuts & Bolts	1 1/2"	25	Sets
BPR	Catamaran (2 Halves)	1/8" x 1/2" Rivets*	1 1/2"	25	Sets
BPSBOLT-SS	Spare Parts	SS Bolts	--	100	Pkg
BPSNUT-SS	Spare Parts	SS Nuts	--	100	Pkg

\* Hardware not included, see GRIG2A/GRIV3A on page 69.

## Slotted Batten Pocket Protectors



Features a 1" webbing slot which enables slides to be directly webbed to protector. Also have low friction modules which reduce drag against mast.

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPT	Slotted (2 Halves)	6 Stainless Steel Self-Tapping Phillips Screws	1 1/4"	25	Sets
BPT2	Slotted (2 Halves)	4 Stainless Steel Machine Phillips Screws & Nuts	1 3/4"	25	Sets



## Extra Wide Batten Pocket Protectors

Extra large and extra strong, for battens up to 2" wide or where the increased strength of six self-tapping screws is required.

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPL	Extra Wide (2 Halves)	6 Stainless Steel Self-Tapping Phillips	2"	25	Sets



## Dinghy Batten Pocket Protectors

Molded in impact resistant, UV-stabilized Nylon for maximum durability and reliability.

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP87	Dinghy (2 Halves)	3 Stainless Steel Self-Tapping Phillips	5/8"	25	Sets



## Deep Groove Batten Pocket Protectors

Molded in impact resistant, UV-stabilized Nylon for maximum durability and reliability.

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP85	Deep Groove (2 Halves)	3 Stainless Steel Phillips Screws	13/16"	25	Sets



## Flared Edge Batten Pocket Protectors

Designed for compression battens intersecting the luff at angles greater than 90°.

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP105	Flared Edge (2 Halves)	6 Stainless Steel Phillips Screws	1 1/2"	25	Sets



BPN105S	Extra Hardware	6 Stainless Steel Phillips Screws	--	100	Pkg
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## Snap-On Batten Pocket Protectors



Halves snap together by means of 5 self locking studs. Simply press halves together and they lock into place. No screws to lose. Great for quick installations!

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP82	Snap-On (2 Halves)	None Required	1 3/4"	25	Sets

## Large Batten Pocket Protectors



Extra large receptacle receives up to a 2" batten. Rounded corners and low profile make this attractive to racing sailors.

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP83	Large (2 Halves)	4 Stainless Steel Self-Tapping Phillips	2"	25	Sets

## Link Batten Pocket Protectors



Includes one short link and one long link plus screws for quick installations (see BPNP147A&B below).

PART	PROTECTOR DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP147	Link (2 Halves)	5 Stainless Steel Phillips Screws	2"	10	Sets
BPNP147A	Spare Link Short (7/16")	--	--	10	Sets
BPNP147B	Spare Link Long (13/16")	--	--	10	Sets

## Batten End Caps / Spacers



Extremely low profile these caps are for use with dinghy top battens or as spacers below headboards to reduce headboard cocking.

PART	DESCRIPTION	HARDWARE INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BP151	End Cap / Spacer	1 Stainless Steel Phillips Screw	1 1/4"	100	Sets

## Slotted Long Batten Pocket Protectors

Features a 3/4" webbing slot which enables slides to be directly webbed to protector.

PART	PROTECTOR DESCRIPTION	SCREWS INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP170	Slotted Long (2 Halves)	6 SS Phillips Nuts & Bolts	7/8"	10	Sets



## Slotted Wide Batten Pocket Protectors

Features a 3/4" webbing slot which enables slides to be directly webbed to protector.

PART	PROTECTOR DESCRIPTION	SCREWS INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP148	Slotted Wide (2 Halves)	6 SS Phillips Nuts & Bolts	2"	10	Sets



## Small Vernier Batten Pocket Adjusters

Designed to induce camber in full length battens.

PART	ADJUSTER DESCRIPTION	SCREWS INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP156	Small Vernier (2 Halves)	6 SS Phillips Self-Tapping	5/8"	10	Sets



## Long Slotted Vernier Batten Pocket Adjusters

Features a 3/4" webbing slot which enables slides to be directly webbed to protector.

PART	ADJUSTER DESCRIPTION	SCREWS INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP155	Long Slotted (2 Halves)	6 SS Phillips Nuts & Bolts	1 1/2"	10	Sets



## Large Threaded Vernier Batten Pocket Adjusters

Features a 10 mm threaded nose to accept many popular sized sail cars.  
Fully adjustable via threaded stud.

PART	ADJUSTER DESCRIPTION	SCREWS INCLUDED	MAX WIDTH	QTY/ PKG	ORDER BY
BPNP161	Slotted for Webbing (2 Halves)	6 SS Phillips Nuts & Bolts	1 1/2"	10	Sets
BPNP161-10	10mm Threaded Nose (2 Halves)	6 SS Phillips Nuts & Bolts	1 1/2"	10	Sets



**Batten Pocket Elastic**

Extra thick woven elastic for best recovery and long life. Use batten pocket elastic to keep the batten in the pocket.



PART	DESCRIPTION	WIDTH	THICKNESS	YD/ROLL	ORDER BY
YBH	Batten Pocket Elastic	1/2"	0.070"	25	Rolls
YB3	Batten Pocket Elastic	3/4"	0.070"	25	Rolls
YB1	Batten Pocket Elastic	1"	0.070"	25	Rolls
YB1H	Batten Pocket Elastic	1 1/2"	0.070"	25	Rolls
YB2	Batten Pocket Elastic	2"	0.070"	25	Rolls

**Cam Buckles**

Used for adjustment of compression battens.



PART	DESCRIPTION	WEBBING SIZE	QTY/PKG	ORDER BY
FBCT	Cam Buckle	3/4"	50	Each
FBC1	Cam Buckle	1"	50	Each

**Ladderlock Buckles**

Engineered for strength from one solid piece with fixed middle bar. Special features ensure smooth and easy tightening with less slippage and the convenience of one handed release or tightening.



PART	DESCRIPTION	WEBBING SIZE	QTY/PKG	ORDER BY
FBL5	Ladderlock Buckle	5/8"	50	Each
FBLT	Ladderlock Buckle	3/4"	50	Each
FBL1	Ladderlock Buckle	1"	50	Each

**Heavy Duty Ladderlock Buckles**

Heavy duty buckle, used for adjustment of compression battens and tie downs.



PART	DESCRIPTION	WEBBING SIZE	QTY/PKG	ORDER BY
FBLHD	Heavy Duty Ladderlock	1"	50	Each

**Side-Release Buckles**

YKK® Apollo series, the highest strength side-release buckles available (300 lbs. average at 1"). New high-tech design incorporates a four position lock mechanism for added safety. Non-slip adjuster ensures secure restraint. Inner rib increases impact resistance. Molded in black Delrin (acetal).



PART	DESCRIPTION	WEBBING SIZE	QTY/PKG	ORDER BY
FBS	Side Release Buckle	1"	50	Each
FBS2	Side Release Buckle	2"	50	Each

## The Bluestreak Advantage

Bluestreak has pioneered the pultruded F.R.P. process in their quest for the ultimate sailbatten. The following superior qualities are engineered into each Bluestreak batten:

- The highest glass reinforcement percentage (approximately 68%) in the industry, resulting in a maximum stiffness to weight ratio.
- Bluestreak has developed a special vinylester resin formula for high stress applications. In the standard pultrusion process, glass fibers are oriented 100% unidirectionally which results in a potential weakness in the cross direction. Bluestreak has solved this problem with their unique X-20 additive which increases the bond between fibers and provides axial strength as well as unidirectional stability.
- Bluestreak battens are low in pigment levels. This avoids degradation of the resin cure resulting in reduced performance of the adhesive matrix. Low pigment also allows visual inspection through the profile during the manufacturing process.
- The design of Bluestreak batten profiles has been optimized to provide low mass, low profile, and to allow for infinite shape-ability.
- Bluestreak battens are produced in a climate-controlled, state-of-the-art facility on computer controlled machines. Tapered battens are precision-ground to a tolerance of less than 0.0004", yielding consistent tapers every time.
- Bluestreak battens and tips are guaranteed against faulty workmanship and materials.

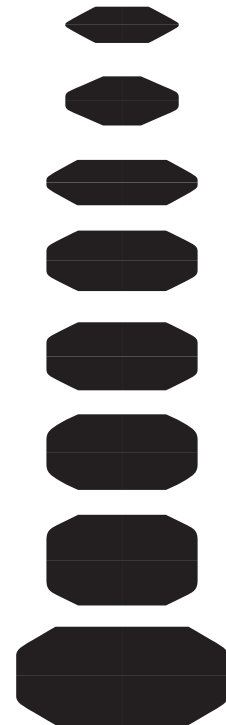
### BATTEN MASS

Profile	Mass
Amazon	582 g/m
OR5	400 g/m
OR4	360 g/m
OR3	315 g/m
OR2	269 g/m
OR1	203 g/m
WR3	130 g/m
WR2	116 g/m
WR1	76 g/m
Hex2	81 g/m
Hex1	49 g/m

## Bluestreak Untapered Vinylester Batten Stock

PART	DESCRIPTION	PROFILE	SIZE	ORDER BY	SHIP BY
BK6	Bluestreak Coil (15 m)	WR2	15 x 4.8 mm	Coils	UPS
BK7	Bluestreak Coil (15 m)	WR3	15 x 6.5 mm	Coils	UPS
BK1	Bluestreak Coil (15 m)	OR1	20 x 6 mm	Coils	Truck
BK2	Bluestreak Coil (15 m)	OR2	20 x 8 mm	Coils	Truck
BK3	Bluestreak Coil (15 m)	OR3	20 x 9 mm	Coils	Truck
BK4	Bluestreak Coil (15 m)	OR4	20 x 10 mm	Coils	Truck
BK5	Bluestreak Coil (15 m)	OR5	20 x 12 mm	Coils	Truck
BK8	Bluestreak Coil (15 m)	Amazon	28 x 13 mm	Coils	Truck

(shown at actual size)



Warning! Each Bluestreak coil is under extreme tension. Ends will fly if not held firmly. Cut tapes progressively from outside in, while undoing. Open as soon as possible after delivery.

**CHALLENGE SAILCLOTH WEST (COSTA MESA, CA)**  
800-423-6750 (tel) / uswest@challengesailcloth.com / 949-722-2961 (fax)



## Bluestreak 10 mm Batten End Caps



PART	DESCRIPTION	WIDTH	FITS PROFILE	QTY/ PKG	ORDER BY
BT10T	Leech Tie-in End Cap	10 mm	Hex 1-2	50	Each



BT10C	Leech Crescent End Cap	10 mm	Hex 1-2	50	Each
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BT10M	Slotted Outer Multi-Lock End Cap	10 mm	Hex 1-2	50	Each
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## Bluestreak 15 mm Batten End Caps



PART	DESCRIPTION	WIDTH	FITS PROFILE	QTY/ PKG	ORDER BY
BT15T	Tie-in Outer End Cap	15 mm	WR 2-3	50	Each



BT15W	Slotted Outer End Cap	15 mm	WR 2-3	50	Each
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## Bluestreak 20 mm Batten End Caps



PART	DESCRIPTION	WIDTH	FITS PROFILE	QTY/ PKG	ORDER BY
BT20A	Triangle Inner End Cap	20 mm	OR 1-5	50	Each



BT20B	Triangle Outer End Cap	20 mm	OR 1	50	Each
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BT22B	Triangle Outer End Cap	20 mm	OR 2 & 3	50	Each
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BTOR4	Triangle Outer End Cap	20 mm	OR 4	50	Each
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BTOR5	Triangle Outer End Cap	20 mm	OR 5	50	Each
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## Bluestreak 28 mm Batten End Caps



PART	DESCRIPTION	WIDTH	FITS PROFILE	QTY/ PKG	ORDER BY
BT28	Triangle Outer End Cap	28 mm	Amazon	10	Each

# Bluestreak Tapered Battens



## BlueStreak Dinghy Tapered Leech Battens – 25% Draft

LENGTH		BATTEN SECTIONS			
mm	inch	Hex 1 – 10 mm	Hex 2 – 10 mm	WR2 – 15 mm	WR3 – 15 mm
305	12	BD112			
381	15	BD115			
457	18	BD118	BD218		
533	21	BD121	BD221		
610	24	BD124	BD224	BD324	
686	27	BD127	BD227	BD327	
762	30	BD130	BD230	BD330	BD430
838	33	BD133	BD233	BD333	BD433
914	36	BD136	BD236	BD336	BD436
991	39	BD139	BD239	BD339	BD439
1016	40	BD140	BD240	BD340	BD440
1067	42	BD142	BD242	BD342	BD442
1143	45	BD145	BD245	BD345	BD445
1219	48	BD148	BD248	BD348	BD448
1500	59			BD359	

### APPLICATION GUIDANCE

25' Fractional		1	2	3 / 4
25' Masthead		1	2	3 / 4
30' Fractional			1	2
30' Masthead				1 / 2

Batten Profiles  
(shown at actual size)



Top = 1, Upper Middle = 2, Lower Middle = 3, Bottom = 4

Please inquire for application guidance pertaining to specific One-Design classes.

**CHALLENGE SAILCLOTH WEST (COSTA MESA, CA)**

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# Bluestreak Tapered Battens

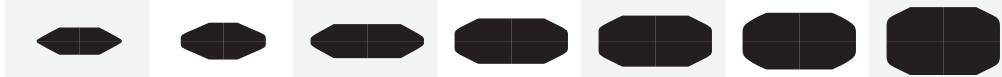
## Bluestreak Ocean Race/Cruise Leech (25% Draft) & Full (40% Draft) Tapered Battens

LENGTH / TYPE		BATTEN SECTIONS						
mm / in	Style	WR2	WR3	OR1	OR2	OR3	OR4	OR5
750 / 30	Leech			B17	B27			
900 / 35	Leech			B19	B29	B39	B49	B59
	Full	BL69	BL79	BL109				
1050 / 41	Leech			B110	B210	B310	B410	B510
1200 / 47	Leech			B112	B212	B312	B412	B512
	Full	BL612	BL712	BL112	BL212			
1350 / 53	Leech			B113	B213	B313	B413	B513
1500 / 59	Leech			B115	B215	B315	B415	B515
	Full	BL615	BL715	BL115	BL215	BL315		
1800 / 71	Leech			B118	B218	B318	B418	B518
	Full	BL618	BL718	BL118	BL218	BL318		
2100 / 83	Leech			B121	B221	B321	B421	B521
	Full	BL621	BL721	BL121	BL221	BL321		
2400 / 95	Leech			B124	B224	B324	B424	B524
	Full	BL624	BL724	BL124	BL224	BL324	BL424	
2700 / 106	Leech			B127	B227	B327	B427	B527
	Full		BL727	BL127	BL227	BL327	BL427	
3000 / 118	Leech			B130	B230	B330	B430	B530
	Full		BL730	BL130	BL230	BL330	BL430	BL530
3300 / 130	Leech				B233	B333	B433	B533
	Full		BL733	BL133	BL233	BL333	BL433	BL533
3600 / 142	Leech					B336	B436	B536
	Full					BL336	BL436	BL536
3900 / 154	Leech						B439	B539
	Full					BL339	BL439	BL539
4200 / 165	Leech						B442	B542
	Full					BL342	BL442	BL542
4500 / 177	Full					BL345	BL445	BL545
5000 / 197	Full					BL350	BL450	BL550

### APPLICATION GUIDANCE

25' Fractional	1 / 2	3 / 4					
25' Masthead	1 / 2	3 / 4					
30' Fractional			1 / 2	3 / 4			
30' Masthead		1 / 2	3 / 4				
35' Fractional			1	2	3	4	
35' Masthead			1 / 2	3 / 4			
40' Fractional				1	2	3	4
40' Masthead			1	2	3	4	
50' Fractional				1	2	3	4
50' Masthead				1	2	3	4

Batten Profiles  
(shown at 75%)



Top = 1, Upper Middle = 2, Lower Middle = 3, Bottom = 4

**CHALLENGE**  
**SAILCLOTH**  
**HARDWARE**

**CHALLENGE SAILCLOTH, INC. (VERNON, CT)**  
800-962-4499 (tel) / us@challengesailcloth.com / 860-872-0881 (fax)



## RBS Batten Line

The RBS range of battens consists of four standard widths, 10, 15, 19 and 25 mm with a variety of different thicknesses and lengths to choose from. The 10 mm width is primarily used in small One-Designs and dinghies while the more substantial 15, 19 and 25 mm widths are used in multihulls and larger boats. For applications that require an extremely stiff batten, RBS manufactures the T-700 Carbon Bar series of battens. With RBS unique pulform manufacturing process they are able to properly match the mix of "E" glass or carbon fiber content to their flexible epoxy resin formula to precisely control the batten stiffness and produce a very durable, flexible product.

## RBS "E" Glass Battens

RBS Epoxy Battens are constructed with all unidirectional "E" glass fibers in a proprietary pulforming process in which all glass fibers are pre-tensioned and aligned during the impregnation and curing process in their special Epoxy resin matrix. This manufacturing technique makes for an extremely durable and practically unbreakable batten. Another added benefit of this manufacturing technique over the more traditional pultrusion process is the elimination of the need for lubrication. During the manufacture of pultruded type battens, the resin/fiber package is pulled through a die that determines the profile of the batten. To reduce friction on the die, wax is sometimes used as a lubricant. Some of this wax lubricant will inevitably find its way into the composite thus weakening the bond of the resin to the fiber and in some circumstances leading to premature product failure.



EPOXY BATTEN  
CROSS-SECTION

## RBS Tapered Battens

RBS Tapered Battens are produced on a custom made precision tapering machine which ensures the end user a high quality and properly tapered batten for the specific location in the sail. RBS takes extreme measures to make certain that the proper taper is placed on each and every batten they produce. Because of their special Epoxy resin matrix they are able to taper their flex tip battens down to 0.035" (0.09 mm) which yields a very soft tip on their leech battens with low risk of breakage.

## RBS History

RBS, Inc. has been manufacturing battens since 1985 when they introduced the vinylester and tube batten to the windsurfing industry. In 1990 they quickly learned that the flexible epoxy matrix and the pulform process was a superior combination for this product. RBS battens have become the benchmark batten for windsurfers and are quickly becoming the batten of choice to sailors who demand the highest performance, most durable batten available.

## RBS Custom Battens

Capitalizing on RBS' accurate tapering abilities, Challenge can work in concert with sailmakers and RBS to produce batten sets for unusual projects. Custom-ground battens for various in-boom roller furling systems are available, as well as special battens with tapering specific to multihulls that use unusual batten receptacles, can be ordered. Custom batten orders usually ship within one to two weeks. Custom battens are also available in Epoxy/Carbon Fiber construction for ultra-stiff and weight sensitive applications by special order. Challenge also stocks some non-tapered battens and can special-order non-tapered battens of any size. Please inquire for details.

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**CHALLENGE  
SAILCLOTH  
HARDWARE**

# RBS Tapered Dinghy Battens

## RBS E-Glass Tapered Dinghy Battens 10 mm and 15mm

BATTENS

VERY SOFT		>		>		>		MEDIUM STIFF	
L (cm/in)	W (mm)	Type	.090" / 2.3 mm	.100" / 2.5 mm	.120" / 3 mm	.140" / 3.6 mm	.160" / 4.1 mm		
20 / 7.9	10	Leech Full	BBE10090-20F BBE10090-20C						
25 / 9.8	10	Leech Full	BBE10090-25F BBE10090-25C						
30 / 11.8	10	Leech Full		BBE10100-30F BBE10100-30C					
35 / 13.8	10	Leech	BBE10090-35F						
40 / 15.7	10	Leech Full		BBE10100-40F BBE10100-40C		BBE10140-40F			
45 / 17.7	10	Leech	BBE10090-45F						
50 / 19.7	10	Leech		BBE10100-50F	BBE10120-50F	BBE10140-50F			
60 / 23.6	10	Leech Full			BBE10120-60F BBE10120-60C	BBE10140-60F BBE10140-60C			
70 / 27.6	10	Leech Full	BBE10090-70F	BBE10100-70F	BBE10120-70F BBE10120-70C	BBE10140-70F BBE10140-70C	BBE10160-70F BBE10160-70C		
	15	Leech					BBE15160-70F		
80 / 31.5	10	Leech Full			BBE10120-80F BBE10120-80C	BBE10140-80F BBE10140-80C	BBE10160-80F BBE10160-80C		
	15	Leech Full					BBE15160-80F BBE15160-80C		
90 / 35.4	10	Leech Full			BBE10120-90F	BBE10140-90F BBE10140-90C	BBE10160-90F BBE10160-90C		
	15	Leech Full					BBE15160-90F BBE15160-90C		
100 / 39.4	10	Leech Full			BBE10120-100F BBE10120-100C	BBE10140-100F BBE10140-100C	BBE10160-100F BBE10160-100C		
	15	Leech Full					BBE15160-100F BBE15160-100C		
110 / 43.3	10	Leech Full			BBE10120-110F BBE10120-110C	BBE10140-110F BBE10140-110C	BBE10160-110F		
120 / 47.2	10	Leech Full				BBE10140-120F BBE10140-120C	BBE10160-120F BBE10160-120C		
	15	Leech Full					BBE15160-120F BBE15160-120C		
130 / 51.2	10	Leech				BBE10140-130F	BBE10160-130F		
140 / 55.1	10	Leech Full				BBE10140-140C	BBE10160-140F BBE10160-140C		
	15	Leech Full					BBE15160-140F BBE15160-140C		
160 / 63.0	15	Leech Full					BBE15160-160F BBE15160-160C		
200 / 78.7	10	Full				BBE10140-200C			
210 / 82.7	10	Full				BBE10140-210C			

### APPLICATION CHART

20' Masthead / Fractional		Mst: 1, Frc: 1	Mst: 2 / 3, Frc: 2	Mst: 4, Frc: 3
25' Masthead / Fractional			Mst: 1, Frc: 1	Mst: 2 / 3, Frc: 2
30' Masthead / Fractional				Mst: 1, Frc: 1
35' Masthead / Fractional				

10 mm Batten Profiles  
(shown actual size)



Top = 1, Upper Middle = 2, Lower Middle = 3, Bottom = 4



**CHALLENGE SAILCLOTH, INC. (VERNON, CT)**  
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# RBS Tapered Dinghy Battens

## RBS E-Glass Tapered Dinghy Battens 10 mm and 15 mm

MEDIUM STIFF		>		>		>		VERY STIFF	
L (cm/in)	W (mm)	Type	.180" / 4.6 mm	.200" / 5 mm	.230" / 5.8 mm	.265" / 6.7 mm	.300" / 7.6 mm		
70 / 27.6	15	Leech Full		BBE15200-70F BBE15200-70C					
80 / 31.5	10	Leech	BBE10180-80F						
	15	Leech Full	BBE15180-80F BBE15180-80C	BBE15200-80F BBE15200-80C	BBE15230-80F BBE15230-80C	BBE15265-80F BBE15265-80C	BBE15300-80F BBE15300-80C		
90 / 35.4	10	Leech Full	BBE10180-90F BBE10180-90C						
	15	Leech Full	BBE15180-90F BBE15180-90C	BBE15200-90F BBE15200-90C	BBE15230-90F BBE15230-90C	BBE15265-90F BBE15265-90C	BBE15300-90F BBE15300-90C		
100 / 39.4	10	Leech Full	BBE10180-100F BBE10180-100C	BBE10200-100F BBE10200-100C	BBE10230-100F BBE10230-100C				
	15	Leech Full	BBE15180-100F BBE15180-100C	BBE15200-100F BBE15200-100C	BBE15230-100F BBE15230-100C	BBE15265-100F BBE15265-100C	BBE15300-100F BBE15300-100C		
110 / 43.3	15	Leech Full	BBE15180-110F BBE15180-110C			BBE15265-110C		BBE15300-110F	
120 / 47.2	10	Leech Full	BBE10180-120F BBE10180-120C	BBE10200-120F BBE10200-120C	BBE10230-120F BBE10230-120C				
	15	Leech Full	BBE15180-120F BBE15180-120C	BBE15200-120F BBE15200-120C	BBE15230-120F BBE15230-120C	BBE15265-120F BBE15265-120C	BBE15300-120F BBE15300-120C		
130 / 51.2	15	Leech Full	BBE15180-130F	BBE15200-130F		BBE15265-130C		BBE15300-130F	
140 / 55.1	10	Leech Full	BBE10180-140F BBE10180-140C	BBE10200-140F BBE10200-140C	BBE10230-140F BBE10230-140C				
	15	Leech Full	BBE15180-140F BBE15180-140C	BBE15200-140F BBE15200-140C	BBE15230-140F BBE15230-140C	BBE15265-140F BBE15265-140C	BBE15300-140F BBE15300-140C		
160 / 63.0	10	Leech Full	BBE10180-160F BBE10180-160C	BBE10200-160F BBE10200-160C	BBE10230-160F BBE10230-160C				
	15	Leech Full		BBE15200-160F BBE15200-160C	BBE15230-160F BBE15230-160C	BBE15265-160F BBE15265-160C	BBE15300-160F BBE15300-160C		
170 / 66.9	15	Leech Full	BBE15180-170F BBE15180-170C						
180 / 70.9	10	Leech Full	BBE10180-180F BBE10180-180C	BBE10200-180F BBE10200-180C	BBE10230-180F BBE10230-180C				
	15	Leech Full		BBE15200-180F BBE15200-180C	BBE15230-180F BBE15230-180C	BBE15265-180F BBE15265-180C	BBE15300-180F BBE15300-180C		
200 / 78.7	10	Leech Full			BBE10230-200F BBE10230-200C				
210 / 82.7	15	Leech Full	BBE15180-210C		BBE15230-210F BBE15230-210C	BBE15265-210F BBE15265-210C	BBE15300-210F BBE15300-210C		
240 / 94.5	15	Leech Full			BBE15230-240F BBE15230-240C	BBE15265-240F BBE15265-240C	BBE15300-240F BBE15300-240C		
270 / 106.3	15	Leech Full			BBE15230-270F BBE15230-270C	BBE15265-270F BBE15265-270C	BBE15300-270F BBE15300-270C		
300 / 118.1	15	Leech Full			BBE15230-300F BBE15230-300C	BBE15265-300F BBE15265-300C	BBE15300-300F BBE15300-300C		
360 / 141.7	15	Leech Full			BBE15230-360F BBE15230-360C	BBE15265-360F BBE15265-360C	BBE15300-360F BBE15300-360C		

### APPLICATION CHART

20' Masthead / Fractional	Frc: 4			
25' Masthead / Fractional	Mst: 4, Frc: 3	Frc: 4		
30' Masthead / Fractional	Mst: 2 / 3, Frc: 2	Mst: 4, Frc: 3	Frc: 4	
35' Masthead / Fractional		Mst: 1, Frc: 1	Mst: 2 / 3, Frc: 2	Mst: 4, Frc: 3

15 mm Batten Profiles  
(shown actual size)



Top = 1, Upper Middle = 2, Lower Middle = 3, Bottom = 4

**CHALLENGE SAILCLOTH WEST (COSTA MESA, CA)**  
800-423-6750 (tel) / uswest@challengesailcloth.com / 949-722-2961 (fax)



## RBS E-Glass Tapered Yachting Battens 19 mm and 25 mm

VERY SOFT		>	>	>	>	MEDIUM STIFF	
L (cm/in)	W (mm)	Type	.160" / 4.1 mm	.180" / 4.6 mm	.200" / 5 mm	.230" / 5.8 mm	.265" / 6.7 mm
80 / 31.5	19	Leech Full	BBE19160-80F <b>BBE19160-80C</b>	BBE19180-80F <b>BBE19180-80C</b>	BBE19200-80F <b>BBE19200-80C</b>	BBE19230-80F <b>BBE19230-80C</b>	BBE19265-80F <b>BBE19265-80C</b>
90 / 35.4	19	Leech Full	BBE19160-90F <b>BBE19160-90C</b>	BBE19180-90F <b>BBE19180-90C</b>	BBE19200-90F <b>BBE19200-90C</b>	BBE19230-90F <b>BBE19230-90C</b>	BBE19265-90F <b>BBE19265-90C</b>
100 / 39.4	19	Leech Full	BBE19160-100F <b>BBE19160-100C</b>	BBE19180-100F <b>BBE19180-100C</b>	BBE19200-100F <b>BBE19200-100C</b>	BBE19230-100F <b>BBE19230-100C</b>	BBE19265-100F <b>BBE19265-100C</b>
110 / 43.3	19	Leech Full	BBE19160-110F <b>BBE19160-110C</b>	BBE19180-110F <b>BBE19180-110C</b>		BBE19230-110F <b>BBE19230-110C</b>	BBE19265-110F <b>BBE19265-110C</b>
120 / 47.2	19	Leech Full	BBE19160-120F <b>BBE19160-120C</b>	BBE19180-120F <b>BBE19180-120C</b>	BBE19200-120F <b>BBE19200-120C</b>	BBE19230-120F <b>BBE19230-120C</b>	BBE19265-120F <b>BBE19265-120C</b>
140 / 55.1	19	Leech Full	BBE19160-140F <b>BBE19160-140C</b>	BBE19180-140F <b>BBE19180-140C</b>	BBE19200-140F <b>BBE19200-140C</b>	BBE19230-140F <b>BBE19230-140C</b>	BBE19265-140F <b>BBE19265-140C</b>
160 / 63	19	Leech Full		BBE19180-160C	BBE19200-160F <b>BBE19200-160C</b>	BBE19230-160F <b>BBE19230-160C</b>	BBE19265-160F <b>BBE19265-160C</b>
180 / 70.9	19	Leech Full			BBE19200-180F <b>BBE19200-180C</b>	BBE19230-180F <b>BBE19230-180C</b>	BBE19265-180F <b>BBE19265-180C</b>
210 / 82.7	19	Leech Full			BBE19200-210C	BBE19230-210F <b>BBE19230-210C</b>	BBE19265-210F <b>BBE19265-210C</b>
240 / 94.5	19	Leech Full				BBE19230-240F <b>BBE19230-240C</b>	BBE19265-240F <b>BBE19265-240C</b>
270 / 106.3	19	Leech Full				BBE19230-270F <b>BBE19230-270C</b>	BBE19265-270F <b>BBE19265-270C</b>
300 / 118.1	19	Leech Full				BBE19230-300F <b>BBE19230-300C</b>	BBE19265-300F <b>BBE19265-300C</b>
360 / 141.7	19	Leech Full				BBE19230-360F <b>BBE19230-360C</b>	BBE19265-360F <b>BBE19265-360C</b>

### APPLICATION CHART

35' Fractional		1	2 / 3	4	
35' Masthead	1	2	3	4	
40' Fractional			1	2	3 / 4
40' Masthead		1	2	3	4
50' Fractional					1
50' Masthead				1	2

Batten Profiles  
(actual size)



Top = 1, Upper Middle = 2, Lower Middle = 3, Bottom = 4

**CHALLENGE**  
**SAILCLOTH**  
**HARDWARE**

**CHALLENGE SAILCLOTH, INC. (VERNON, CT)**  
800-962-4499 (tel) / us@challengesailcloth.com / 860-872-0881 (fax)

# RBS Tapered Yachting Battens

## RBS E-Glass Tapered Yachting Battens 19 mm and 25 mm

MEDIUM STIFF			>	>	>	>	VERY STIFF
L (cm/in)	W (mm)	Type	.300" / 7.6 mm	.350" / 8.9 mm	.400" / 10 mm	.400" / 12 mm	.500" / 12.7 mm
80 / 31.5	19	Leech Full	BBE19300-80F <b>BBE19300-80C</b>				
90 / 35.4	19	Leech Full	BBE19300-90F <b>BBE19300-90C</b>				
100 / 39.4	19	Leech Full	BBE19300-100F <b>BBE19300-100C</b>				
110 / 43.3	19	Leech	BBE19300-110F				
120 / 47.2	19	Leech Full	BBE19300-120F <b>BBE19300-120C</b>	BBE19350-120F			
140 / 55.1	19	Leech Full	BBE19300-140F <b>BBE19300-140C</b>	BBE19350-140F			
160 / 63	19	Leech Full	BBE19300-160F <b>BBE19300-160C</b>	BBE19350-160F	BBE19400-160F		
180 / 70.9	19	Leech Full	BBE19300-180F <b>BBE19300-180C</b>	BBE19350-180F <b>BBE19350-180C</b>	BBE19400-180F <b>BBE19400-180C</b>		
210 / 82.7	19	Leech Full	BBE19300-210F <b>BBE19300-210C</b>	BBE19350-210F <b>BBE19350-210C</b>	BBE19400-210F <b>BBE19400-210C</b>		
240 / 94.5	19	Leech Full	BBE19300-240F <b>BBE19300-240C</b>	BBE19350-240F <b>BBE19350-240C</b>	BBE19400-240F <b>BBE19400-240C</b>		
270 / 106.3	19	Leech Full	BBE19300-270F <b>BBE19300-270C</b>	BBE19350-270F <b>BBE19350-270C</b>	BBE19400-270F <b>BBE19400-270C</b>		
300 / 118.1	19	Leech Full	BBE19300-300F <b>BBE19300-300C</b>	BBE19350-300F <b>BBE19350-300C</b>	BBE19400-300F <b>BBE19400-300C</b>		
360 / 141.7	19	Leech Full	BBE19300-360F <b>BBE19300-360C</b>	BBE19350-360F <b>BBE19350-360C</b>	BBE19400-360F <b>BBE19400-360C</b>		
420 / 165.4	19	Leech Full	BBE19300-420F <b>BBE19300-420C</b>	BBE19350-420F <b>BBE19350-420C</b>	BBE19400-420F <b>BBE19400-420C</b>		
480 / 189.0	19	Leech Full	BBE19300-480F <b>BBE19300-480C</b>	BBE19350-480F <b>BBE19350-480C</b>	BBE19400-480F <b>BBE19400-480C</b>		
	25	Leech Full				BBE25400-480C	
540 / 212.6	19	Leech Full		BBE19350-540F <b>BBE19350-540C</b>	BBE19400-540F <b>BBE19400-540C</b>		
	25	Leech Full				BBE25500-540C	
600 / 236.2	19	Leech Full		BBE19350-600F <b>BBE19350-600C</b>	BBE19400-600F <b>BBE19400-600C</b>		

### APPLICATION CHART

50' Fractional	2	3		
50' Masthead	3	4		
60' Fractional		1 / 2	3	
60' Masthead		1	2	

Batten Profiles  
(actual size)



Top = 1, Upper Middle = 2, Lower Middle = 3, Bottom = 4

**CHALLENGE SAILCLOTH WEST (COSTA MESA, CA)**  
800-423-6750 (tel) / uswest@challengesailcloth.com / 949-722-2961 (fax)



## RBS 10 mm and 15 mm Batten Leech End Caps



PART	DESCRIPTION	WIDTH	FITS RBS BATTENS	QTY/PKG	ORDER BY
BC10120-140	Leech Cap	10 mm	2.3 mm / 3.6 mm	50	Each
BC10160-180	Leech Cap	10 mm	4.1 mm / 4.6 mm	50	Each
BC10200	Leech Cap	10 mm	5 mm	50	Each
BC1090-100	Leech Cap	10 mm	5.8 mm	50	Each
BC15160-180	Leech Cap	15 mm	4.1 mm / 4.6 mm	50	Each
BC15200	Leech Cap	15 mm	5 mm	50	Each
BC15230	Leech Cap	15 mm	5.8 mm	50	Each
BC15265	Leech Cap	15 mm	6.7 mm	50	Each
BC15300	Leech Cap	15 mm	7.6 mm	50	Each

## RBS 19 mm and 25 mm Batten Leech End Caps



PART	DESCRIPTION	WIDTH	FITS RBS BATTENS	QTY/PKG	ORDER BY
BC19160-180	Leech Cap	19 mm	4.1 mm / 4.6 mm	50	Each
BC19200	Leech Cap	19 mm	5 mm	50	Each
BC19230	Leech Cap	19 mm	5.8 mm	50	Each
BC19265	Leech Cap	19 mm	6.7 mm	50	Each
BC19300	Leech Cap	19 mm	7.6 mm	50	Each
BC19350	Leech Cap	19 mm	8.9 mm	50	Each
BC19400	Leech Cap	19 mm	10 mm	50	Each
BC25400	Leech Cap	25 mm	10mm	50	Each

## RBS Rocket Tensioners



Developed for a clean, easy way to tension both flex and compression battens. Never lose a batten out of the pocket again! Designed to be used with a loop webbing system. Batten should be trimmed 1.75" / 40 mm from the finished length for the tensioner to work properly. Tensioner screw should be backed off .5" / 13 mm to place loops on and off. With a 1.5" / 38 mm screw there is approximately 1" / 25 mm of adjustment.

PART	DESCRIPTION	BATTEN SIZE	ORDER BY
BT10230T	RBS Rocket Tensioner	10 mm x 5.8 mm	Each
BT15300T	RBS Rocket Tensioner	15 mm x 7.6 mm	Each
BT19265T	RBS Rocket Tensioner	19 mm x 6.7 mm	Each
BT19350T	RBS Rocket Tensioner	19 mm x 8.9 mm	Each

## RBS E-Glass One-Design Sets

RBS one-design sets make it convenient to pick the right batten set for many popular one-design classes. Sets have been selected with input from leading one-design sailmakers with attention to class rules. Please note that when there is a variation in batten lengths, sets are built to the longest possible length.

PART	DESCRIPTION	BATTENS/SET	ORDER BY
B420	420 Mainsail Set	4	Set
BDN	DN Iceboat Set	4	Set
BFINN	Finn Batten Set	5	Set
BJ22-MAIN	J-22 Mainsail Set	4	Set
BJ24-M	J-24 Mainsail Set	5	Set
BLIGHTNING	Lightning Mainsail Set	3	Set
BLIGHTN-JIB	Lightning Jib Set	2	Set
BSTARNO	Star Mainsail Set	5	Set
BSTARJIB	Star Jib	3	Set
BTHISTLE	Thistle Mainsail Set	4	Set



## Rutgerson Roller Battens

Stainless steel spring encased in a woven polyester cover.

PART	DESCRIPTION	WIDTH MM / IN	MAX BATTEN MM / IN	MAX BATTEN GR / OZ	BOAT SIZE FT
BR34103	Roller Batten	40 / 1.58	300 / 11.81	53 / 1.87	< 32
BR34104	Roller Batten	40 / 1.58	400 / 15.75	70 / 2.47	< 32
BR34105	Roller Batten	40 / 1.58	500 / 19.68	87 / 3.07	< 32
BR35105	Roller Batten	50 / 1.97	500 / 19.68	118 / 3.07	30 – 40
BR35106	Roller Batten	50 / 1.97	600 / 23.62	145 / 5.11	30 – 40
BR35107	Roller Batten	50 / 1.97	700 / 27.56	166 / 5.86	30 – 40
BR37107	Roller Batten	70 / 2.76	700 / 27.56	235 / 8.29	37+
BR37108	Roller Batten	70 / 2.76	800 / 31.50	270 / 9.52	37+
BR37109	Roller Batten	70 / 2.76	900 / 35.43	305 / 10.76	37+



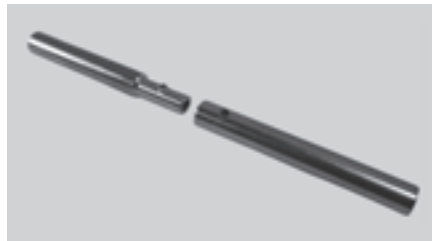
## Rutgerson Full Batten System



Rutgerson's wheel-equipped pressure absorbing slides have been in production since 2003. More than 100,000 of these slides have been sold worldwide, a testament to the performance and value that this unique design offers. With the ability to fit into many of the most popular mast extrusions without needing a specialized track, these batten cars allow a sailor to capitalize on the excellent performance of a roller car without the huge investment in a traditional track/car system. The cars can be attached via shackles, webbing, 10 mm stud, 12 mm stud and special forked fitting.

The 1580 Batten Receptacle is manufactured from a durable, strong and light-weight UV stable glass reinforced plastic. The 10 mm socket allows this receptacle to be threaded over 1530 series batten car studs or any other slide system using 10 mm studs. Accepts both round and flat batten stock.

The brand-new 1540 'Limousine Battcar' series is manufactured out of aluminum with a stainless steel 12 mm stud to withstand the loads of yachts up to 60 feet. This series also features a batten car designed to be webbed on to the sail as intermediate slides. This intermediate car is manufactured out of high-strength composite material. The aluminum body of the 12 mm stud version has a molded, self-lubricating plastic slug portion that reduces friction to a bare minimum. The Limousine Battcars are currently in development and are available by special order for large boat projects.



Left: Stainless steel round batten connectors are designed to be epoxied to the ends of round fiberglass batten stock. These sturdy connectors are retained with a set screw and make collapsible batten sets that are far easier to ship or store. Thin profile adds only 2 mm to outside diameter for smooth transitions between each batten section or for ensuring easy furling for vertical battens applied to in-mast furling mainsails.



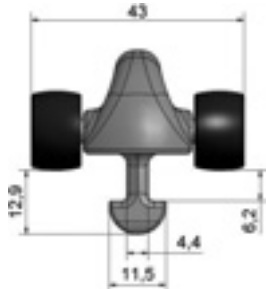
Right: Stainless steel end caps for round battens allow use of batten receptacles designed only for flat battens, or easily adapt an elastic, webbing or velcro batten pocket for use with round batten stock. These are designed to be epoxied to the end of the batten. These caps are an excellent way to terminate a long, vertical batten in an in-mast furling mainsail.



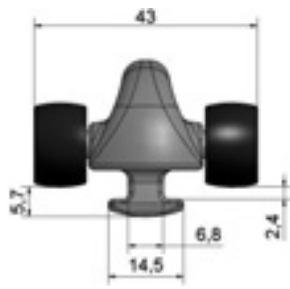
## RUTGERSON PRESSURE ABSORBING SLIDES



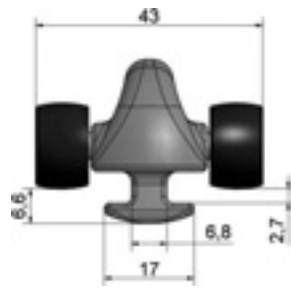
1525-11



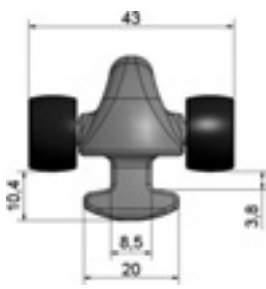
1525-16



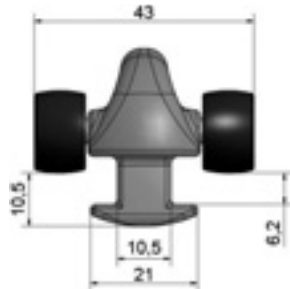
1525-19



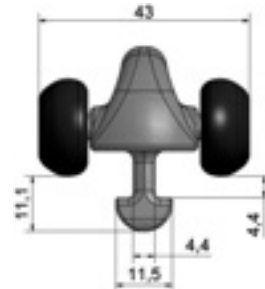
1525-20



1525-23

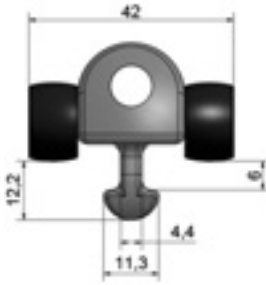


1526-11

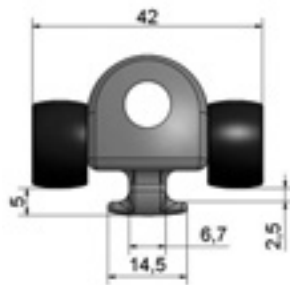


## RUTGERSON BATTICARS

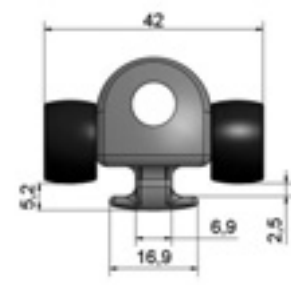
1530/1535-11-XX



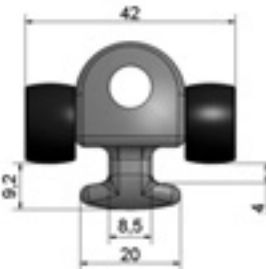
1530-16-XX



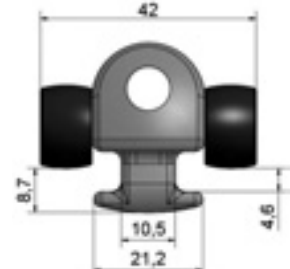
1530-19-XX



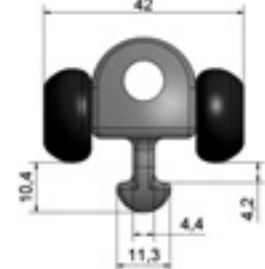
1530-20-XX



1530/1535-23-XX



1531-11-XX



RUTGERSON

## PRESSURE ABSORBING SLIDE & BATTCAR MAST SELECTION GUIDE

MAST SUPPLIER REFERENCE NO.	1525-11	1525-16	1525-19	1525-20	1525-23	1526-11
	1530-11-XX 1535-11-XX	1530-16-XX	1530-19-XX	1530-20-XX	1530-23-XX 1535-23-XX	1531-11-XX
RUTGERSON BATTCAR REFERENCE NUMBER						
EQUIVALENT HOLT ALLEN		HA89	HA90		HA91	
SPARCRAFT	F135, F195, F305, F385, F460, I620, S622, I830, S830				NG60, NG70, NG80, NG86, F580, F740, F1060, F1395, S1630, S2100, F2390, F3360, F4600	F35, F50, F67, F78, F101, S137, S180, S260, S330, IMS80, IMS256
SELDÉN	1335*			C156, C175, C193, C211, C227, C245, C264, C285, C304		
JOHN MAST	135D, 148D, 150D, 165D, 167D, 185D, 186D, 208D, 222D, 245D, 280D, 305D, 335D				220E, 262E, 290E	150E, 116E, 125E
Z SPARS	Z301, Z351, Z401, Z501, Z531, Z602, Z702				Z902, Z1001, Z1250, Z1400	Z170, Z190, Z230, Z265
SOROMAP	NF200, NF270, NF350, NF430, NF540, NF710, NF1410					

Note: For application in monohull mainsails >50 m<sup>2</sup> (592 sq ft.) use the High Load Battcar versions with reference no 1535-XX-XX. It is also mandatory to install all Rutgerson battcars with the assembly screw pointing upwards in the mast gate. It is not recommended to use any Rutgerson Battcars in mainsails >80 m<sup>2</sup> (861 sq ft.).

\* If the Seldén mast is equipped with a sail entry gate with a cassette with tongue and rubber spring pad, it has to be converted to a track gate insert for fullbatten sails (Seldén part no 505-516-01, 505-524-01).

## Rutgerson Batten Cars

With a large selection of slide sizes, connector types and intermediate slides available, there is a Rutgerson Pressure Absorbing Slide available for almost every mast section and batten hardware system out there. Your customer can obtain track-like performance from these slides without having to purchase and fit a new track to their mast. Plastic wheels handle compression loads and are formulated to not wear paint or anodization off the aft portion of the mast. Choices for sail hardware connection include shackles, webbing, 10 mm stud, 12 mm stud and Rutgerson's special forked fitting for use with part number BR1490 batten receptacle for an extremely cost-effective, high-performance system. New this year: large wheeled roller cars with 19.5 mm diameter wheels versus the standard 15.5 mm diameter wheels. See 'Description' column to find cars featuring these larger wheels.

PART	DESCRIPTION	WIDTH MM (IN)	LENGTH MM (IN)	ORDER BY
BR1525-11	Small Boat Roller Car	11 (0.43)	55 (2.17)	Each
BR1526-11	Small Boat Roller Car, Large Wheel	11 (0.43)	55 (2.17)	Each
BR1525-16	Small Boat Roller Car	16 (0.63)	55 (2.17)	Each
BR1525-19	Small Boat Roller Car	19 (0.75)	55 (2.17)	Each
BR1525-20	Small Boat Roller Car	20 (0.79)	55 (2.17)	Each
BR1525-23	Small Boat Roller Car	23 (0.91)	55 (2.17)	Each
<hr/>				
BR1530-11-10	Web-On Batten Car	11 (0.43)	66 (2.60)	Each
BR1531-11-10	Web-On Batten Car, Large Wheel	11 (0.43)	66 (2.60)	Each
BR1530-16-10	Web-On Batten Car	16 (0.63)	66 (2.60)	Each
BR1530-19-10	Web-On Batten Car	19 (0.75)	66 (2.60)	Each
BR1530-20-10	Web-On Batten Car	20 (0.79)	66 (2.60)	Each
BR1530-23-10	Web-On Batten Car	23 (0.91)	66 (2.60)	Each
<hr/>				
BR1530-11-05	Standard Batten Car	11 (0.43)	66 (2.60)	Each
BR1531-11-05	Standard Batten Car, SS 10 mm Stud, Large Wheel	11 (0.43)	66 (2.60)	Each
BR1530-16-05	Standard Batten Car	16 (0.63)	66 (2.60)	Each
BR1530-19-05	Standard Batten Car	19 (0.75)	66 (2.60)	Each
BR1530-20-05	Standard Batten Car, SS 10 mm Stud	20 (0.79)	66 (2.60)	Each
BR1530-23-05	Standard Batten Car	23 (0.91)	66 (2.60)	Each
<hr/>				
BR1530-11-09	Long Link Batten Car	11 (0.43)	66 (2.60)	Each
BR1530-16-09	Long Link Batten Car	16 (0.63)	66 (2.60)	Each
BR1530-19-09	Long Link Batten Car	19 (0.75)	66 (2.60)	Each
BR1531-20-09	Long Link Batten Car, SS 10 mm Stud	20 (0.79)	66 (2.60)	Each
BR1530-23-09	Long Link Batten Car	23 (0.91)	66 (2.60)	Each



## Rutgerson Fork Fitting Batten Cars

Rutgerson's line of fork fitting pressure absorbing slides are designed for use with their BR1490-1 receptacles. The fork fitting bolts neatly over the 1490-1 or even the 1490 with the shackle removed, creating a solid connection between batten receptacle and batten car. The aluminum version pivots vertically and horizontally as well as swivels whereas the stainless steel version only pivots vertically and horizontally. The stainless steel version can handle higher loads than the aluminum version.



PART	DESCRIPTION	WIDTH MM (IN)	LENGTH MM (IN)	ORDER BY
BR1530-11-03	Alum. Fork Fitting Batten Car	11 (0.43)	66 (2.60)	Each
BR1531-11-03	Alum. Fork Fitting Batten Car, Large Wheel	11 (0.43)	66 (2.60)	Each
BR1530-16-03	Alum. Fork Fitting Batten Car	16 (0.63)	66 (2.60)	Each
BR1530-19-03	Alum. Fork Fitting Batten Car	19 (0.75)	66 (2.60)	Each
BR1530-20-03	Alum. Fork Fitting Batten Car	20 (0.79)	66 (2.60)	Each
BR1530-23-03	Alum. Fork Fitting Batten Car	23 (0.91)	66 (2.60)	Each
BR1531-23-03	Alum. Fork Fitting Batten Car Large Wheel	23 (0.91)	66 (2.60)	Each
BR1530-11-15	SS Fork Fitting Batten Car	11 (0.43)	66 (2.60)	Each
BR1530-16-15	SS Fork Fitting Batten Car	16 (0.63)	66 (2.60)	Each
BR1530-19-15	SS Fork Fitting Batten Car	19 (0.75)	66 (2.60)	Each
BR1530-20-15	SS Fork Fitting Batten Car	20 (0.79)	66 (2.60)	Each
BR1530-23-15	SS Fork Fitting Batten Car	23 (0.91)	66 (2.60)	Each

## Rutgerson Batten Receptacles

These economical, non-adjustable batten receptacles accept both round and flat battens and can be used with conventional slides and Rutgerson's Fork-Fitting Batten Cars or Small Boat Roller Cars. Choose the BR1490-1 or 1G for use with Fork Fitting Cars shown above, which includes mounting hardware but not a shackle. Choose the BR1490 or 1490-G for use with Small Boat Roller Cars or conventional slides, which includes mounting hardware and also stainless steel shackle.



PART	DESCRIPTION	MAX WIDTH (FLAT)	MAX DIA (ROUND)	ORDER BY
BR1490-1	White Batten Receptacle	45 mm (1 3/4")	12 mm (1/2")	Each
BR1490-1G	Grey Batten Receptacle	45 mm (1 3/4")	12 mm (1/2")	Each
BR1490	White Batten Receptacle	45 mm (1 3/4")	12 mm (1/2")	Each
BR1490-G	Grey Batten Receptacle	45 mm (1 3/4")	12 mm (1/2")	Each

## Rutgerson Adjustable Batten Receptacles

Rutgerson's new adjustable fitting for flat battens makes it simple to adjust batten tension. These durable receptacles are constructed of a special fiberglass reinforced plastic making them light weight, strong, and UV stable. Each receptacle is designed to facilitate front batten loading eliminating the need for bulky leech hardware. The BR1590 also features a window with adjustment scale for repeatable compression settings. Attaches to batten car via 10 mm threaded shaft. Swiveling adjuster arm allows for easy front loading of battens with sail on boom. Works great on boats from 30 to 50 feet. Each set includes receptacle, backing plate and six stainless torx screws.

PART	DESCRIPTION	MAX WIDTH	MAX THCK	BOAT SIZE	ORDER BY
BR1580	Small Black Batten Receptacle	25/32"	3/8"	25' – 36'	Each
BR1590	Large Black Batten Receptacle	1 1/2"	1/4"	33' – 50'	Each
BR1595	Heavy Duty Large Black Batten Receptacle	63/64"	13/32"	33' – 50'	Each
<b>Spare Parts for Adjustable Batten Receptacles</b>					
BR14-0004	Adjustable Screw	Fits – BR1590, BR1595		Each	
BR14-0063	Lock Screw	Fits – BR1590, BR1595		Each	
BR14-0064	Assembly Screw	Fits – BR1590, BR1595		Each	
BR32-0008	Sliding Hatch	Fits – BR1590, BR1595		Each	
BR32-0007	Tension Arm	Fits – BR1590, BR1595		Each	



## Rutgerson Limousine System High Load Battcars

Designed for monohulls up to 60 feet in length, these roller battcars are manufactured from a solid aluminum extrusion. The slug portion of the slide is made from an extremely slippery, self-lubricating plastic cast over the aluminum extrusion and makes for a high-performance slide that can also handle loads that large yachts are capable of producing. There are two versions available, the 1540 with a 12 mm stainless steel stud for threading on batten receptacles and a composite version suitable for webbing onto sails as intermediate cars.

PART	DESCRIPTION	WIDTH MM	LENGTH MM	ORDER BY
BR1540-23-05	12 mm Stud High Load Battcar	23 mm	84 mm	Each
BR1528-23	Web-On High Load Battcar	23 mm	70 mm	Each



## Rutgerson Limousine System Batten Receptacles

Rutgerson's new 1600 'Limousine' system anodized black aluminum batten receptacle is strong enough to use on boats up to 70 feet. Available with both 10 and 12 mm threaded sockets, these receptacles can be used with Rutgerson's own roller battcars or any other slide or track system on the market. Aside from strength, this receptacle offers a very convenient sliding hatch mechanism. Simply press a button and release the cover to remove the batten from the luff end. Hex bolt on receptacle nose adjusts batten tension.

PART	DESCRIPTION	MAX FLAT BATTEN	MAX ROUND	BOAT SIZE	ORDER BY
BR1610	10 mm Batten Receptacle	34 x 14 mm	22 mm	≤ 70'	Each
BR1612	12 mm Batten Receptacle	34 x 14 mm	22 mm	≤ 70'	Each



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## Tye-Tec Round Batten Receptacles

New Tye-Tec full-batten receptacles offer a light, strong and streamlined approach to full batten systems. Made of high-grade anodized aluminum, these receptacles are large enough to fit the full range of Blue Streak and RBS battens. Receptacles accept all full batten slides with 10 mm or 12 mm thread studs.



PART	DESCRIPTION	NOSE THREAD	BATTEN DIAMETER	FITS BOAT	ORDER BY
BT11014	Round Luff Receptacle	10 mm	8 – 14 mm	≤ 48'	Each
BT11020	Round Luff Receptacle	10 mm	16 – 20 mm	≤ 60'	Each
BT11214	Round Luff Receptacle	12 mm	8 – 14 mm	≤ 48'	Each
BT11220	Round Luff Receptacle	12 mm	16 – 20 mm	≤ 60'	Each
BT10014	Round Leech Adjuster	--	8 – 14 mm	≤ 48'	Each
BT10020	Round Leech Adjuster	--	16 – 20 mm	≤ 60'	Each
BT10025	Round Leech Adjuster	--	18 – 25 mm	≤ 60'	Each

## Tye-Tec Batten Reduction Sleeves

Precision sized plastic reduction sleeves. Use with round batten receptacles to remove play in the batten adjuster, greatly reducing wear and tear on both batten and adjuster.



PART	DESCRIPTION	FITS BATTEN	USE WITH RECEPTACLE	ORDER BY
BT51408	Batten Reduction Sleeve	8 mm	BT1XX14	Each
BT51410	Batten Reduction Sleeve	10 mm	BT1XX14	Each
BT51412	Batten Reduction Sleeve	12 mm	BT1XX14	Each
BT52414	Batten Reduction Sleeve	14 mm	BT1XX20	Each
BT52416	Batten Reduction Sleeve	16 mm	BT1XX20	Each
BT52418	Batten Reduction Sleeve	18 mm	BT1XX20	Each
BT53418	Batten Reduction Sleeve	18 mm	BT1XX25	Each
BT53420	Batten Reduction Sleeve	20 mm	BT1XX25	Each

## Tye-Tec Flat Batten Receptacles

New Tye-Tec full-batten receptacles offer a light, strong and streamlined approach to full batten systems. Made of high-grade anodized aluminum, these receptacles are large enough to fit the full range of Blue Streak and RBS battens. Receptacles accept all full batten slides with 10 mm or 12 mm thread studs.

PART	DESCRIPTION	NOSE THREAD	BATTEN SIZE	FITS BOAT	ORDER BY
BT11021	Flat Luff Receptacle	10 mm	20 x 10 mm	≤ 48'	Each
BT11031	Flat Luff Receptacle	10 mm	30 x 10 mm	≤ 60'	Each
BT11221	Flat Luff Receptacle	12 mm	20 x 10 mm	≤ 48'	Each
BT11231	Flat Luff Receptacle	12 mm	30 x 10 mm	≤ 60'	Each
BT12010	Flat Leech Tensioner	--	20 x 10 mm	≤ 48'	Each
BT13010	Flat Leech Tensioner	--	30 x 10 mm	≤ 60'	Each



## Tye-Tec Replacement Leech Adjuster Screws

Threaded compression adjuster screws have an anodized aluminum body. Flat batten adjuster screws use a stainless steel locking screw while round batten adjuster screws use a plastic locking screw. Choose between 5/8", 7/8" and 1 1/8" sizes.

PART	DESCRIPTION	SIZE	FITS ADJUSTER	ORDER BY
BT100145	Round Leech Adjuster Screw	5/8"	BT10014	Each
BT100205	Round Leech Adjuster Screw	7/8"	BT10020	Each
BT100255	Round Leech Adjuster Screw	1 1/8"	BT10025	Each
BT120105	Flat Leech Adjuster Screw	5/8"	BT12010	Each
BT130105	Flat Leech Adjuster Screw	3/4"	BT13010	Each



FIGURE 1

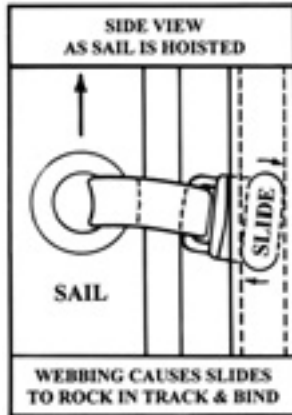


FIGURE 2

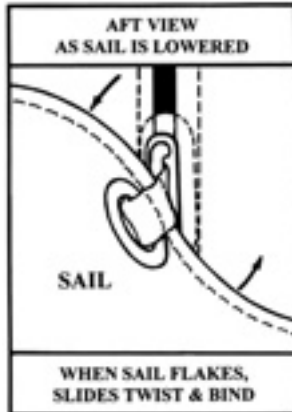
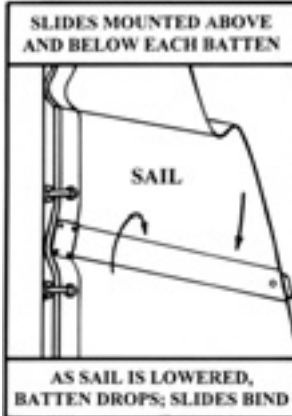


FIGURE 3



Battslide is a registered trademark of Schaefer Marine, Inc.

Slide Boss is a trademark of Schaefer Marine, Inc.

## Battslide and Slide Boss Products

**BATSLIDE®** and **Slide Boss™** sail luff hardware can dramatically improve the hoisting and lowering of conventional or full batten sails without the expense or weight of add-on track. Since their introduction in 1987, Battslide products have been used on thousands of boats and for countless ocean passages. The vast majority of installations are on normal cruising and daysailing boats ranging in length from 23 to 55 feet (7 to 17 meters). Battslide products also have proven themselves on the racing circuit. They have been aboard Volvo and America's Cup winners as well as numerous other high-profile racers.

### Solving Hoisting and Lowering Problems

The Battslide line includes three categories of sail luff hardware: (1) three-axis headboard slide systems, (2) Slide Boss™ pivoting sail slide mounts, and (3) Battslide® full batten sail hardware.

To understand how these products can make sail handling easier, it is necessary to examine the causes of hoisting and lowering problems. Whether you have a conventional or full batten sail, some or all of the slides may be attached with webbing. Figures 1 and 2 show the two principal ways webbed-on slides can bind and cause sail handling problems. These problems can occur to all slides on both conventional and full batten sails. If you have a full batten sail, the problems can be further exacerbated by the battens. Figure 3 illustrates one of several ways webbed-on sail slides at the batten ends can cause problems.

Battslide® sail luff hardware solves all of the illustrated problems by providing three-axis articulation for each slide. This decouples the slides from the motion of the sail and/or battens and permits the slides to do their job. For example, note in the photo below how the Slide Bosses permit the sail to fold easily and hang down without binding the slides. Our headboard fittings and Battslides provide the same benefits.

### Use a Complete System

If you have a conventional sail, you will want to specify a Battslide headboard slide system and use Slide Bosses on the remaining slides. If you have a full batten sail, we encourage you to use the above two items plus Battslides at the batten ends. It is important to use a complete system to achieve maximum benefit.

### Is an Add-on Track Really Necessary?

Although manufacturers of sail luff hardware systems that feature add-on track have implied that these systems are essential, Battslide customers tell them that their strong, simple slide systems provide 70% to 80% of the efficiency of the more complex systems, but at 1/3 to 1/4 of the cost! Moreover, Battslide systems add very little weight aloft compared to those that require add-on track.

There are situations, particularly on larger boats, where add-on track is essential, however. In these cases, many sailmakers prefer to use the proven Battslide receptacles with another manufacturer's cars and track. Battslide receptacles work with Harken, Antal, Frederiksen and Strong systems.



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800-962-4499 (tel) / us@challengesailcloth.com / 860-872-0881 (fax)



## Selecting and Ordering Battslide® Luff Hardware

### Selecting Based on Boat Size

The length and type of the boat, which often is a rough indication of sail area and power, is the main factor in determining which product line to select. The table below provides a rough selection guide for different boat lengths. In cases of doubt, it is usually better to select the next larger luff hardware product line.

### Selecting the Proper Slide

First, note the type of mast track tie: (round internal, flat internal, external etc.). Next, measure the dimensions of the track. Then, see if the appropriate type and size of slide is available in the luff hardware product family you have selected. For internal tracks, either round or flat, the best slide is the largest size that will fit into the track and still slide freely. Undersize slides can wear prematurely and/ or cause damage to the sail track. Do not use undersize slides!

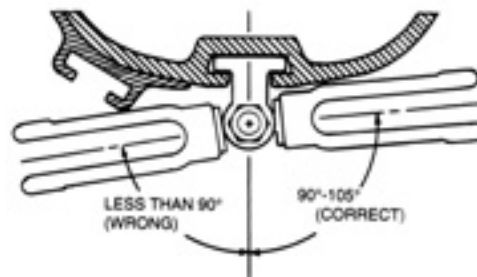
### Selecting Batten Receptacles If Sail Has Full Length Battens

Essentially, there are two configurations of battens: (1) flat (including low profile diamond shapes and so-called tri-hull battens), and (2) round. In the product family you have selected based on boat size, check to see which batten receptacles will accept the type and size of battens particular to your application. Next, determine whether the battens will be loaded into the sail

from the leech or the luff end. In all of the the product lines, certain batten receptacles allow the batten to be loaded from the luff end. These receptacles also have batten compression (cloth tension) adjustment mechanisms, which permit the leech to be free of bulky hardware that can get hung up on a backstay.

### Assuring Adequate Athwartship Movement

It is important that Battslide batten receptacles be able to swing freely at least 90° (and preferably up to 105°) to both sides of the boat centerline. Refer to the figure below. Storm trysail tracks, in particular, can inhibit adequate movement. If the receptacle cannot pivot enough, custom slides may be required, please inquire. It is particularly important on boats with free standing (unstayed) rigs that the maximum athwartship movement be possible, because on these rigs the upper battens can rotate well past 90°, especially on sustained runs in heavy weather.



### BATTSLIDE FULL BATTEN SYSTEMS FOR BOATS 20 – 50 FT

Boat Length	Batten Type	Batten Receptacle	Batten Slides	Intermediate Slides	Headboard Plate
up to 28 ft	Flat	BS440-10	Conventional	BS889	BS844
up to 35 ft	Flat	BS450-10, BS450N, or BS1500	Battslide II	BS889	BS844
up to 50 ft	Flat	BS401-10 BS1900	Battslide II	BS889	BS844
up to 50 ft	Round	BS301-10	Battslide II	BS889	BS844



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# Battslide Receptacles

## Battslide I™ Receptacles



Battslide Receptacles are designed for boats up to 35 feet in length. The BS440-10 is small and a lot less bulky than most small batten receptacles making it the perfect choice for boats under 26 feet. BS450-N offers an extremely strong and low cost option for full-batten receptacles, and the BS450 combines the strength, low cost of the BS450-N with a compression adjuster for added performance. For best results use with Battslide II slides or Slide Boss™ intermediate slide mounts.

PART	DESCRIPTION	MAX BATTEN SIZE	ORDER BY
BS440-10	Non-Adjuster Receptacle	0.63" x 0.28" (16 x 7 mm) flat	Each
BS450-N	Non-Adjuster Receptacle	1.6" x 0.2" (40 x 5 mm) flat 0.5" (13 mm) round	Each
BS450-10	Adjuster Receptacle	1.6" x 0.2" (40 x 5 mm) flat 0.5" (13 mm) round	Each
BS1500-10	Adjuster 10 mm Receptacle	0.6" x 0.3" (15 x 8mm) flat 0.4" (10 mm) round	Each

## Battslide Magic Shackle & Connector Shaft



Magic Shackle allows use of a standard web-on or shackle-on slide with a 10 mm socket batten receptacle. For use on boats with plastic slides up to 28 feet. Three-axis link can be used as spare for link in Battslide II Slides.

PART	DESCRIPTION	MATERIAL STUD / SHKL	ORDER BY
BS466	Magic Shackle & Connector Shaft	Aluminum / Stainless	Each
BS890	3-Axis Link	Stainless	Each

## Battslide II® Receptacles



The Battslide II product line is a heavy-duty but light weight full batten system for boats up to 50 feet in length. It is intended to be a cost-effective alternative to expensive car-and-track systems, providing 70 to 80% of their efficiency but at 1/3 to 1/4 the cost. The Battslide II system also adds very little weight aloft since it operates on your existing track. Both of the receptacles styles are proven, and feature a patented batten compression adjuster. Use with Battslide II slides (next page). Choose between 10 mm or 12 mm nose thread.

PART	DESCRIPTION	MAX BTN WIDTH	INSET DEPTH*	ORDER BY
BS301-10	Battslide II Receptacle	0.8" (round)	5 3/4"	Each
BS301-12	Battslide II Receptacle	0.8" (round)	5 3/4"	Each
BS401-10	Battslide II Receptacle	1 5/8" (flat) or 1/2" (round)	5 1/2" or 6 3/8"	Each
BS401-12	Battslide II Receptacle	1 5/8" (flat) or 1/2" (round)	5 1/2" or 6 3/8"	Each
BS1900-10	Battslide II Receptacle	5/8" (flat)	5 3/4" or 3/8" (round)	Each

\* The inset depth is the distance which the receptacle protrudes into the sail in a typical installation.

## Battslide II® Slides

Battslide II slides distribute load evenly over the length of slides to increase effective surface area and reduce friction. Flat and slug slides feature special Nylatron slides. All slides have 10 mm stainless stud.

PART	DSCR	SLIDE SIZE	SLIDE TYPE	WDTH	THCK	WAIST	ORDER BY
BS801	Battslide II Slide	1"	Flat	0.98"	0.20"	0.46"	Each
BS802	Battslide II Slide	MM #8	Flat	0.90"	0.15"	0.46"	Each
BS803	Battslide II Slide	7/8"	Flat	0.85"	0.18"	0.46"	Each
BS804	Battslide II Slide	3/4"	Flat	0.72"	0.13"	0.42"	Each
BS865	Battslide II Slide	5/8"	Flat	0.61"	0.12"	0.38"	Each
BS831	Battslide II Slide	Deep Slug		0.385"	--	--	Each
BS833	Battslide II Slide	Shallow Slug		0.385"	--	--	Each

• BS831 and BS833 will fit waisted bail and slug slides 3/8" to 1/2" in diameter.



## Battslide Headboard Hardware Systems

For medium-duty applications use Battslide II nylatron mast slides (see above).

PART	DESCRIPTION	MATERIAL	ORDER BY
BS844	Headboard Plate	Stainless	Each



## Slide Boss Intermediate Attachment for Battslide Systems

For use with original Battslide and Battslide II systems. Stainless steel shackle for use with heavy-duty slides.

PART	DESCRIPTION	SIZE	MATERIAL	ORDER BY
BS889	Slide Boss Intermediate Attachment	10 mm	Stainless	Each





## Battslide Big Boat and Mega Yacht Hardware Systems

Full flat batten hardware system in solid aluminum for big boats and mega yachts.

PART	DESCRIPTION	MAX BTN MM	THREAD MM	RCPT IN (MM)	WGT LB (KG)	ORDER BY
BS3200-10	Mega Receptacle	32 x 12	10	3 x 7 1/4	1.1	Each
BS3200-12	Mega Receptacle	32 x 12	12	(76 x 184)	(0.5)	Each
BS4500-12	Mega Receptacle	45 x 15	12	3 1/2 x 9 1/2	2.1	Each
BS4500-14	Mega Receptacle	45 x 15	14	(89 x 241)	(1.0)	Each
BS6000-14	Mega Receptacle	60 x 18	14	4 1/2 x 11 3/4	4.2	Each
BS6000-16	Mega Receptacle	60 x 18	16	(114 x 300)	(1.9)	Each

## Battslide Big Boat and Mega Yacht Batten Receptacles

These receptacles are designed to be compatible with many of today's popular mast track systems. They are attached to the mast track system via a clevis pin.



PART	DESCRIPTION	MAX BTN WIDTH	THREAD SIZE	RCPT IN (MM)	ORDER BY
BS351-12	Mega Receptacle	1.0" (round)	12 mm	(77 x 216)	Each
BS382-12	Mega Receptacle	1.25" (round)	12 mm	3 3/4 x 11 3/4	Each
BS382-14	Mega Receptacle	1.25" (round)	14 mm	(94 x 296)	Each

## Battslide Round Batten Sleeve Adaptors

Round batten adaptors take up the slack and eliminate play between the batten and the receptacle thus reducing batten fatigue and breakage. Match sleeve to batten size and receptacle. Special order items: please allow appropriate lead time.



PART	DESCRIPTION	FITS BATTEN	USE WITH RECEPTACLE	ORDER BY
BS020	Round Batten Sleeve Adaptor	9/16" & 5/8"	BS301	Each
BS021	Round Batten Sleeve Adaptor	7/16" & 1/2"	BS301	Each
BS022	Round Batten Sleeve Adaptor	5/16" & 3/8"	BS301	Each
BS051	Round Batten Sleeve Adaptor	13/16" & 7/8"	BS351	Each
BS052	Round Batten Sleeve Adaptor	11/16" & 3/4"	BS351	Each
BS053	Round Batten Sleeve Adaptor	9/16" & 5/8"	BS351	Each
BS054	Round Batten Sleeve Adaptor	7/16" & 1/2"	BS351	Each
BS082	Round Batten Sleeve Adaptor	7/8" & 1"	BS382	Each
BS083	Round Batten Sleeve Adaptor	11/16" & 3/4"	BS382	Each

## Battslide Spare Parts for 102, 103 & 104 Receptacles

PART	DESCRIPTION	ORDER BY
BS403004-01	Barrel Nut Set	Each
BS450023-10	Thin Spacer	Each
BS450023-15	Thick Spacer	Each
BS450046-01	Bushing for Stainless Battslides	Each










## Battslide Spare Parts for 301 Receptacles (BL, TL & ML)








PART	DESCRIPTION	ORDER BY
BS450064-10	Link Holder for BS301-10	Each
BS450064-12	Link Holder for BS301-12	Each
BS401008-01	Batten Adjuster Traveler	Each
BS51-257-01	Clevis Pin Only	Each
BS912002-01	Receptacle Screw	Each
BS920001-01	Batten Adjuster Bolt	Each
BS932001-01	Thin Nylock Nut (for BL Stud)	Each
BS937002-01	Nut for Batten Adjuster Bolt	Each
BS947001-01	Washer for Battlink-BL Stud	Each



## Battslide Spare Parts for 351 Receptacle

	PART	DESCRIPTION	ORDER BY
	BS20-43	Receptacle Nut	Each
	BS-401011-01	Batten Adjuster Traveler Arm	Each
	BS450098-14	Link Holder for BS351-14	Each
	BS450098-12	Link Holder for BS351-12	Each
	BS450099-01	Receptacle Only ( <i>not shown</i> )	Each
	BS913003-01	Receptacle Screw	Each
	BS912002-01	Receptacle Body Screw	Each

## Battslide Spare Parts for 450-10 Receptacles

	PART	DESCRIPTION	ORDER BY
	BS450121-01	Receptacle Body	Each
	BS450122-01	Backing Plate	Each
	BS450132-01	Batten Adjuster Traveler	Each
	BS914001-01	Receptacle Screw	Each
	BS916004-01	Batten Adjuster Set Screw (allen)	Each
	BS934001-01	Receptacle Nylock Nut	Each
	BS911001-01	Receptacle Body Screw	Each

## Battslide Spare Parts for 401 Receptacles (10, 12 & BL)

PART	DESCRIPTION	ORDER BY
BS403014-01	Hardware Set (Fasteners)	Each
BS403004-01	Barrel Nut Set for BL Series	Each
BS403005-01	Barrel Nut and Mating Screw	Each
BS403006-01	Barrel Nut Set for BS II Series	Each
BS450092-02	Link Holder for 401-10	Each
BS450092-12	Link Holder for 401-12	Each
BS913005-01	Housing Bolt	Each
BS920006-01	Batten Traveler Adjuster Bolt	Each
BS933001-01	Body Housing Nut for 401-XX <i>(not shown)</i>	Each
BS450094-01	Batten Adjuster Traveler	Each
BS938001-01	Receptacle Nylock Nut for 382-XX	Each



## Battslide Spare Parts for 889 Attachment

PART	DESCRIPTION	ORDER BY
BS450108-01	Nylon Shackle for BS885	Each
BS450135-01	Stainless Shackle	Each
BS912002-01	Slide Boss Body Screw	Each
BS931001-01	Slide Boss Body Nylock Nut	Each





## Metal Mast Marine Slides

Nylon metal mast slides offer the best combination of economy vs. durability, whereas Delrin slides offer the best performance due to their super slippery specialized plastic. Bronze slides offer the best solution for high load areas in sails such as headboard, reef points, Cunningham and outhaul slides. Plastic coated slides are a more refined version of Bronze coated slides. Plastic coating keeps slide looking newer longer and helps prevent corrosion.

PART	DESCRIPTION	WIDTH	WAIST	QTY/PKG	ORDER BY
SMN6	#6 Nylon Slide	3/4"	3/8"	100	Each
SMN8	#8 Nylon Slide	7/8"	13/32"	100	Each
SMD6	#6 Delrin Slide	3/4"	3/8"	100	Each
SMD8	#8 Delrin Slide	7/8"	13/32"	100	Each
SMB6	#6 Bronze Slide	3/4"	13/32"	10	Each
SMB8	#8 Bronze Slide	7/8"	29/64"	10	Each
SMBP6	#6 Plastic Ctd Bronze Slide	3/4"	3/8"	10	Each
SMBP8	#8 Plastic Ctd Bronze Slide	7/8"	3/8"	10	Each

## Nylon Internal Track Slides

Super narrow waists make these slides great for fitting hard to fit masts. Perfect for most narrow slotted internal sail tracks.



PART	DESCRIPTION	WIDTH	WAIST	LENGTH	QTY/PKG	ORDER BY
SITN5	Nylon Internal Track Slide	5/8"	1/4"	1 1/4"	100	Each
SITN6	Nylon Internal Track Slide	3/4"	5/16"	1 5/16"	100	Each
SITN7	Nylon Internal Track Slide	7/8"	21/64"	1 3/8"	100	Each

## Stainless Steel Internal Track Slides

These slides are the strongest slide option for internal track. Perfect for use in high-load areas such as headboards, reefs, Cunningham and outhauls.



PART	DESCRIPTION	WIDTH	WAIST	LENGTH	QTY/PKG	ORDER BY
SITS5	SS Internal Track Slide	5/8"	1/4"	1 1/4"	10	Each
SITS6	SS Internal Track Slide	3/4"	1/4"	1 1/4"	10	Each
SITS7	SS Internal Track Slide	7/8"	1/4"	1 1/4"	10	Each

## Plastic External Track Slides

Designed for a strong, tight fit. Low friction plastic greatly improves performance and reduces jams. Note: Not recommended for use as headboard, reef or full batten slide.



PART	DESCRIPTION	TRACK SIZE	QTY/PKG	ORDER BY
SEP5	Plastic External Track Slide	5/8"	50	Each
SEP7	Plastic External Track Slide	7/8"	50	Each



## Stainless Steel External Sail Slides

The strong, reliable standard for external sail tracks. Attach with stainless shackles (see pg. 57) for quick installation or use webbing. Hand sew using the thimble model for a more traditional look. Cast stainless version has smooth corners for less wear on webbing and sails, also has an attractive polished finish.

PART	DESCRIPTION	TRACK SIZE	QTY/PKG	ORDER BY
SE5	SS External Track Slide	5/8"	50	Each
SE7	SS External Track Slide	7/8"	50	Each
SE1	SS External Track Slide	1"	50	Each
SET5	SS Ext Track Slide w/Thimble	5/8"	50	Each
SET7	SS Ext Track Slide w/Thimble	7/8"	50	Each
SPNP47E	Cast SS External Track Slide	7/8"	25	Each



## Stainless Steel External Sail Tracks

All stainless track features 1/4" holes on 6" centers.

PART	DESCRIPTION	WIDTH	FT/LENGTH	ORDER BY
FSST5-6	SS Sail Track	5/8"	6'	Full Lengths
FSST7-6	SS Sail Track	7/8"	6'	Full Lengths
FSST5	SS Sail Track (Special Order)	5/8"	12'	Full Lengths
FSST7	SS Sail Track (Special Order)	7/8"	12'	Full Lengths



## Holt Allen Mast Slides

Injection molded nylon creates tough slides with minimal sliding friction in the mast track. Three sizes available to fit popular Holt Allen mast sections.

PART	DESCRIPTION	BASE WIDTH	WAIST	LENGTH	QTY/ PKG	ORDER BY
SHA89	Nylon #89 Holt Allen Slide	5/8"	5/16"	1 1/4"	100	Each
SHA90	Nylon #90 Holt Allen Slide	3/4"	3/8"	1 3/8"	100	Each
SHA91	Nylon #91 Holt Allen Slide	7/8"	3/8"	1 9/16"	100	Each



## Plastic Coated Bronze Proctor Mast Slides

Strong bronze with heavy coated plastic to keep slides looking newer longer. Helps prevent corrosion. Great for headboards, reefs and outhaul slides.

PART	DESCRIPTION	BASE WIDTH	WAIST	COAT COLOR	QTY/ PKG	ORDER BY
SP7	Plst Ctd Bronze Proctor Slides	7/8"	1/2"	Black	10	Each
SP1	Plst Ctd Bronze Proctor Slides	1"	19/32"	Black	10	Each



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## Nylon Slug Slides with Stainless Steel Inserted Bail

Simple basic slug. Attach with webbing or stainless steel shackles (see pg 57).  
Designed for light to moderate loads.



PART	DESCRIPTION	DIA	WAIST	LENGTH	QTY/ PKG	ORDER BY
SNSB5	Nylon Slug Slides w/SS Bail	5/16"	1/8"	1 5/64"	100	Each
SNSB6	Nylon Slug Slides w/SS Bail	3/8"	1/8"	1 5/64"	100	Each
SNSB7	Nylon Slug Slides w/SS Bail	7/16"	1/8"	1 3/32"	100	Each
SNSB8	Nylon Slug Slides w/SS Bail	1/2"	1/8"	1 3/32"	100	Each

## Nylon Slug Slides with Internally Welded Stainless Bail and Plastic Rocker

The internally welded bail provides higher strength. Web or shackle on.  
Rocker helps prevent slide jams in vertical direction.



PART	DESCRIPTION	DIA	WAIST	LENGTH	QTY/ PKG	ORDER BY
SNBR5	Nyl Slg Sld w/SS Bail/Plst Rck	5/16"	3/16"	1 5/32"	100	Each
SNBR6	Nyl Slg Sld w/SS Bail/Plst Rck	3/8"	3/16"	1 5/32"	100	Each
SNBR7	Nyl Slg Sld w/SS Bail/Plst Rck	7/16"	3/16"	1 5/32"	100	Each
SNBR8	Nyl Slg Sld w/SS Bail/Plst Rck	1/2"	3/16"	1 5/32"	100	Each

## Nylon Slug Slides

Economical slug slide molded in tough nylon. Extremely narrow waist is a great option for narrow grooved masts.



PART	DESCRIPTION	DIA	WAIST	LENGTH	QTY/ PKG	ORDER BY
SNS3	Nylon Slug Slides	3/8"	5/32"	7/8"	100	Each
SNS4	Nylon Slug Slides	1/2"	5/32"	1"	100	Each

## All Plastic Slug Slides

All purpose slug slide features a raised shoulder to help prevent jamming.  
All plastic construction won't scratch or damage sail track. Solid plastic slides recommended by many leading spar manufacturers.



PART	DESCRIPTION	DIA	WAIST	LENGTH	QTY/ PKG	ORDER BY
SAP5	All Plastic Slug Slides	5/16"	1/8"	1"	100	Each
SAP6	All Plastic Slug Slides	3/8"	1/8"	1"	100	Each
SAP8	All Plastic Slug Slides	1/2"	1/8"	1"	100	Each

## Waisted All Plastic Slug Slides

Fits Sparcraft and Selden spars. Raised shoulder to prevent jamming.

PART	DESCRIPTION	DIA	WAIST	LENGTH	QTY/ PKG	ORDER BY
SW4	Waisted All Plastic Slug Slides	7/16"	1/8"	61/64"	100	Each
SW5	Waisted All Plastic Slug Slides	9/16"	5/32"	1 11/64"	100	Each



## Metric Waisted All Plastic Slug Slides

Raised, rounded shoulder and slug sections to prevent jamming. Metric sizes fit alternate mast sections that won't fit standard slides. Cast Stainless Steel version resists heavy loads in reef, headboard, Cunningham and outhaul applications.

PART	DESCRIPTION	BASE WIDTH	WAIST	LENGTH	QTY/ PKG	ORDER BY
SPNP140A	Plastic Waisted Slug Slide	10 mm (25/64")	3.3 mm (9/64")	31 mm (1 1/4")	100	Each
SPNP140	Plastic Waisted Slug Slide	12 mm (31/64")	3.3 mm (9/64")	31 mm (1 1/4")	100	Each
SPNP141	Plastic Waisted Slug Slide	14 mm (17/32")	4.2 mm (11/64")	32 mm (1 1/4")	10	Each
SPNP142	Plastic Waisted Slug Slide	20 mm (25/32")	8.5 mm (11/32")	40 mm (1 1/2")	10	Each
SPNP34S	Cast SS Slug Slide	10 mm (25/64")	3.3 mm (9/64")	40 mm (1 9/16")	100	Each



## Rutgerson Heavy-Duty All Plastic Slug Slides

Made of injection molded, high-quality plastic, these Rutgerson slug slides work well with modern mast sections requiring 20 mm width slug slides. Well-rounded shoulder and slug portions prevent jamming of the slides. Good intermediate slide option for systems using Rutgerson 1530 series roller cars. Can also be used with Rutgerson 1490 receptacles with integrated stainless shackle.

PART	DESCRIPTION	BASE WIDTH	WAIST	LENGTH	QTY/ PKG	ORDER BY
SR2241-1030	Rutgerson Slug Slide	20 mm	8.5 mm	30 mm	100	Each
SR2241-1040	Rutgerson Slug Slide	20 mm	8.5 mm	40 mm	100	Each



## Oversized Nylon Slug Slides

Extra long nylon slides greatly reduce jamming and provide extra surface to reduce friction. Internally welded bail for added strength.

PART	DESCRIPTION	BASE WIDTH	WAIST	LENGTH	QTY/ PKG	ORDER BY
SPNP102	OS Nylon Slug Slide	5/16" (8.4 mm)	5/16" (8.4 mm)	1 3/4" (45.0 mm)	10	Each
SPNP103	OS Nylon Slug Slide	3/8" (9.8 mm)	5/16" (8.4 mm)	1 3/4" (45.0 mm)	10	Each
SPNP104	OS Nylon Slug Slide	1/2" (11.6 mm)	5/16" (8.4 mm)	1 3/4" (45.0 mm)	10	Each



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## Low Friction Slide



These special low friction slides move more easily under load due to their larger surface area and special slippery nylon outer casing. The heavy nylon outer cover is reinforced with a stainless steel insert making these slides strong and durable.

PART	DESCRIPTION	WIDTH IN (MM)	WAIST IN (MM)	LENGTH IN (MM)	QTY/ PKG	ORDER BY
SPNP203	Low Friction Slide	7/8 (22)	5/16 (8)	2 1/8 (60)	10	Each

## Low Friction Compression Slides



Similar properties to the low friction slides listed above, but these compression slides also add an additional slippery nylon flange that reduces slide friction when slides are loaded in compression. This makes them a natural choice for use on the front of full battens. Regular duty slides are all plastic for weight savings. Heavy duty slide has stainless insert for extra strength.

PART	DESCRIPTION	WIDTH IN (MM)	WAIST IN (MM)	LENGTH IN (MM)	QTY/ PKG	ORDER BY
SPNP202	RD Compression Slide	3/8 (10)	5/32 (4)	2 5/32 (55)	10	Each
SPNP203	RD Compression Slide	7/8 (22)	5/16 (8)	2 1/8 (60)	10	Each

SPNP204	HD Compression Slide	3/8 (10)	5/32 (4)	2 5/32 (55)	10	Each
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## Teflon Plastic Outhaul Slug Slide



Plastic/Teflon material is ultra-slippery under load. Injection molded plastic is tough and slides easily under load.

PART	DESCRIPTION	BASE WIDTH	WAIST	LENGTH	QTY/ PKG	ORDER BY
SPNP34T	Teflon Outhaul Slug Slide	3/8"	3/16"	3"	10	Each

## Super-Strong Plastic/Stainless Outhaul Slug Slide



C-bail and wide key plate of stainless steel bear the load, while the plastic slug slides easily and won't scratch the spar.

PART	DESCRIPTION	DIA	WAIST	LENGTH	QTY/ PKG	ORDER BY
SOS2	Plastic/SS Outhaul Slug Slide	1/4"	5/64"	2"	10	Each
SOS3	Plastic/SS Outhaul Slug Slide	3/8"	5/64"	2"	10	Each
SOS4	Plastic/SS Outhaul Slug Slide	1/2"	5/64"	2"	10	Each

## Plastic Coated Bronze Outhaul Cars



Excellent choice for many boats that require high-strength and low friction for ease of adjustability. Plastic coating keeps bronze slide looking good and reduces corrosion.

PART	DESCRIPTION	DIA	WAIST	LENGTH	QTY/ PKG	ORDER BY
SC4K	Black Coated Outhaul Car	1/4"	7/64"	3"	10	Each
SC5K	Black Coated Outhaul Car	5/16"	1/8"	2 53/64"	10	Each
SC8K	Black Coated Outhaul Car	3/8"	1/8"	2 61/64"	10	Each

## Welded Stainless Steel Slug Slides

Designed for high load applications.

PART	DESCRIPTION	DIA	WAIST	LENGTH	QTY/ PKG	ORDER BY
SS5	Welded SS Slug Slides	5/16"	1/8"	1 1/2"	10	Each
SS7	Welded SS Slug Slides	7/16"	1/8"	1 7/16"	10	Each
SS8	Welded SS Slug Slides	1/2"	1/8"	1 7/16"	10	Each



## Twist-On Nylon Hanks

Light weight and easy to install. These twist-on hanks provide attachment to forestay without the complication of snaps or velcro.

PART	DESCRIPTION	MAX WIRE	QTY/ PKG	ORDER BY
FHT	Twist-On Plastic Hanks w/Screws	3/16"	100	Each



## Twist-On Plastic Hanks

Similar properties to twist-on nylon hanks listed above. These hanks are manufactured in four different sizes to fit a larger variety of forestay sizes.

PART	DESCRIPTION	MAX WIRE	LENGTH	QTY/ PKG	ORDER BY
FNP14	Twist-On Nylon Hanks w/Screws	3/16"	1 1/4"	100	Each
FNP14A	Twist-On Nylon Hanks w/Screws	7/32"	1 5/16"	100	Each
FNP14B	Twist-On Nylon Hanks w/Screws	5/16"	1 1/2"	100	Each
FNP14C	Twist-On Nylon Hanks w/Screws	3/8"	1 3/4"	100	Each



Note: We recommend a traditional brass hank at head and tack for added strength on larger boats.

## Nylon Piston Hanks

Provide an excellent combination of strength, weight, and ease of use. Brass piston mechanism allows for quick release for headsail changes.

PART	DESCRIPTION	MAX WIRE	LENGTH	QTY/ PKG	ORDER BY
FNP88A	Nylon Piston Hank	1/4"	1 5/16"	100	Each
FNP88B	Nylon Piston Hank	25/64"	2 1/2"	100	Each
FNP88C	Nylon Piston Hank	1/2"	3 1/8"	100	Each

Note: We recommend a traditional brass hank at head and tack for added strength on larger boats.



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## Swedish Press-On Jib Hanks

*A long-time industry standard, these brass hanks are strong, durable and easy to install. Cast from the highest quality brass for many seasons of service.*



PART	DESCRIPTION	SIZE	MAX WIRE	LENGTH	QTY/ PKG	ORDER BY
FHP0	Swedish Press-On Jib Hanks	0	3/16"	1 3/4"	50	Each
FHP1	Swedish Press-On Jib Hanks	1	5/16"	2 3/32"	50	Each
FHP2	Swedish Press-On Jib Hanks	2	15/32"	2 1/2"	25	Each
FHP3	Swedish Press-On Jib Hanks	3	37/64"	2 7/8"	25	Each
FHP4	Swedish Press-On Jib Hanks	4	5/8"	3 1/4"	10	Each
FHP5	Swedish Press-On Jib Hanks	5	13/16"	3 3/4"	10	Each
FHP6	Swedish Press-On Jib Hanks	6	7/8"	3 7/8"	10	Each

## Sew-On Jib Hanks

*Same high quality and reliability as Swedish jib hanks, but designed to be sewn on for a more traditional look.*



PART	DESCRIPTION	SIZE	MAX WIRE	LENGTH	QTY/ PKG	ORDER BY
FHS0	Sew-On Jib Hanks	0	7/32"	1 5/8"	50	Each
FHS1	Sew-On Jib Hanks	1	19/64"	2 3/32"	50	Each
FHS2	Sew-On Jib Hanks	2	15/32"	2 1/2"	25	Each
FHS3	Sew-On Jib Hanks	3	37/64"	2 9/16"	25	Each
FHS4	Sew-On Jib Hanks	4	11/16"	3 21/32"	10	Each
FHS5	Sew-On Jib Hanks	5	3/4"	4 13/32"	10	Each

## Wichard Brass Press-On Hanks

*Snaps easily to the headstay with one hand. A must for single-handed sailors!*



PART	DESCRIPTION	MAX WIRE	LENGTH	QTY/ PKG	ORDER BY
F2486B	Brass Press-On Hanks	5/16"	2"	25	Each
F2483B	Brass Press-On Hanks	3/8"	2 1/4"	25	Each
F2487B	Brass Press-On Hanks	7/16"	2 5/8"	25	Each

## Wichard Stainless Steel Press-On Hanks

*Cast in premium grade stainless steel. Snaps easily to the headstay with one hand. A must for single-handed sailors!*



PART	DESCRIPTION	MAX WIRE	LENGTH	QTY/ PKG	ORDER BY
F2486S	SS Press-On Hanks	5/16"	1 7/8"	25	Each
F2483S	SS Press-On Hanks	3/8"	2 1/4"	20	Each
F2487S	SS Press-On Hanks	7/16"	2 5/8"	10	Each
F2489S	SS Press-On Hanks	1/2"	3 1/8"	10	Each
F2488S	SS Press-On Hanks	21/32"	3 5/8"	5	Each
F2490S	SS Press-On Hanks	15/16"	4 1/4"	5	Each

## Stainless Steel Press-On Snap Hanks

Economy version in cast stainless. This hank design allows one-handed attachment of jib to headstay.

PART	DESCRIPTION	LENGTH	MAX WIRE	QTY/ PKG	ORDER BY
FPNP270	Economy SS Press-On Hanks	50 mm	9/32"	20	Each
FPNP271	Economy SS Press-On Hanks	55 mm	5/16"	20	Each
FPNP272	Economy SS Press-On Hanks	60 mm	23/64"	20	Each
FPNP273	Economy SS Press-On Hanks	65 mm	3/8"	20	Each
FPNP274	Economy SS Press-On Hanks	90 mm	9/16"	20	Each



## Stainless Steel Luff Tape Termination

Made from pressed, high quality stainless steel, these terminations serve to protect the vulnerable top edge of the luff tape on any foresail. Also helps to guide luff tape into luff foil. Easily sewn onto head of sail.

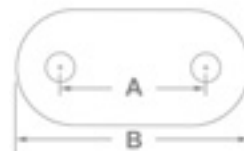
PART	DESCRIPTION	SIZE	QTY/ PKG	ORDER BY
FLT5	SS Luff Tape Termination	7/32" (5 mm)	50	Each
FLT7	SS Luff Tape Termination	9/32" (7 mm)	50	Each



## Jib Hank Chafe Protectors

Made of heavy gauge clear vinyl to prevent luff tape chafe. Use with press-on or sew-on hanks.

PART	DESCRIPTION	DIM A	DIM B	USE WITH JIB HANKS	QTY/ PKG	ORDER BY
FHQ1	Jib Hank Chafe Protectors	1 5/16"	2 5/16"	FHP0, FHP1 F2486B, F2486S	100	Pkg
FHQ2	Jib Hank Chafe Protectors	2"	3"	FHP2, F2483B, F2483S F2487B, F2487S	100	Pkg
FHQ3	Jib Hank Chafe Protectors	1 3/8"	2 3/8"	FHP3, F2489S	100	Pkg
FHQ4	Jib Hank Chafe Protectors	1 5/8"	3 1/8"	FHP4, FHP5, FHP6 F2488S, F2490S	100	Pkg



## Wichard Stainless Steel Tack Hooks

Frequently used at tack point of genoas for one handed attachment to deck fittings. Safety type are made from high tensile stainless steel and are capable of higher working loads than standard type tack hooks. Designed for easy one hand operation.

PART	DESCRIPTION	TYPE	LENGTH	SAFE LOAD	QTY/ PKG	ORDER BY
F2480	SS Tack Hooks	Standard	2"	660 lbs	10	Each
F2481	SS Tack Hooks	Standard	3"	1,320 lbs	10	Each
F2482	SS Tack Hooks	Standard	4"	3,080 lbs	5	Each
F2381	SS Tack Hooks	Safety	3"	2,420 lbs	10	Each
F2382	SS Tack Hooks	Safety	4"	4,620 lbs	5	Each



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## Tylaska Trigger Release Shackles

Premium grade stainless steel makes these shackles very strong and durable. Trigger mechanism allows shackle to be released quickly and under load. Excellent choice for larger racing headsails or halyards.



PART		LENGTH	BAIL WIDTH	WEIGHT	SAFE LOAD	ORDER BY
FT5S	Trigger Release Shackles	2 15/16" (74.6 mm)	9/16" (14.2 mm)	2.2 oz (62 gm)	2,500 lbs (1136 kg)	Each
FT8S	Trigger Release Shackles	3 7/16" (87.3 mm)	21/32" (16.7 mm)	3.5 oz (99 gm)	4,000 lbs (1818 kg)	Each
FT12S	Trigger Release Shackles	4" (101.6 mm)	3/4" (19.1 mm)	5.6 oz (159 gm)	6,000 lbs (2727 kg)	Each
FT20S	Trigger Release Shackles	5" (127 mm)	31/32" (24.6 mm)	10.7 oz (304 gm)	10,000 lbs (4545 kg)	Each
FT30S	Trigger Release Shackles	6 3/8" (161.9 mm)	1 1/4" (31.8 mm)	22.4 oz (636 gm)	15,000 lbs (6818 kg)	Each
FT5L	Trigger Release Shackles	3 5/16" (84.1 mm)	7/8" (22.2 mm)	2.6 oz (74 gm)	2,500 lbs (1136 kg)	Each
FT8L	Trigger Release Shackles	3 5/8" (92.1 mm)	1" (25.4 mm)	4.3 oz (122 gm)	4,000 lbs (1818 kg)	Each
FT12L	Trigger Release Shackles	4 1/2" (114.3 mm)	1 3/16" (30.2 mm)	7.2 oz (205 gm)	6,000 lbs (2727 kg)	Each
FT20L	Trigger Release Shackles	5 9/16" (141.3 mm)	1 1/2" (38.1 mm)	11.9 oz (328 gm)	10,000 lbs (4545 kg)	Each
FT30L	Trigger Release Shackles	7 3/16" (182.6 mm)	1 29/32" (48.4 mm)	29.0 oz (824 gm)	15,000 lbs (6818 kg)	Each

## Tylaska Trigger Release Tack Shackles

A more refined version of Tylaska's trigger release shackles specifically designed for use in headsail tacks.



PART	DESCRIPTION	MAX WIRE	ORDER BY
FT8XA	Trigger Release Tack Shackle	5/16"	Each

## Bronze Fast Eye Snap Hooks

All purpose bronze snap hooks with fast eye for use in various low load applications such as spinnaker turtles and bags.



PART	DESCRIPTION	SIZE	LENGTH	EYE ID	MAX OPEN	QTY/ PKG	ORDER BY
FSN0	Bronze Fast Eye Snap Hook	0	2 1/8"	13/32"	1/4"	50	Each
FSN1	Bronze Fast Eye Snap Hook	1	2 3/4"	19/32"	11/32"	50	Each
FSN2	Bronze Fast Eye Snap Hook	2	3 7/32"	3/4"	13/32"	50	Each
FSN3	Bronze Fast Eye Snap Hook	3	3 7/8"	13/16"	23/32"	50	Each

## Nickel Coated Bronze Fast Eye Snap Hooks

All purpose nickel coated bronze snap hooks with fast eye for use in various low load applications such as spinnaker turtles and bags.



PART	DESCRIPTION	SIZE	LENGTH	EYE ID	MAX OPEN	QTY/ PKG	ORDER BY
FSN0N	Nickel Fast Eye Snap Hook	0	2 1/8"	3/8"	1/4"	50	Each



## Bronze Swivel Eye Snap Hooks

All purpose bronze snap hooks with swivel eye for use in various low load applications.

PART	DESCRIPTION	SIZE	LENGTH	EYE ID	MAX OPEN	QTY/ PKG	ORDER BY
FSSN	Bronze Swivel Eye Snap Hook	1	3 1/4"	5/8"	13/32"	50	Each



## Bronze Spinnaker Swivels

Heavy duty marine grade bronze with ball bearing swivel. Can be webbed on or hand sewn to spinnaker. Excellent for traditional boats with no swivel on halyards.

PART	DESCRIPTION	SIZE	LENGTH	MAX LOAD	QTY/PKG	ORDER BY
FSW0	Bronze Spinnaker Swivels	0	1 7/8"	1500 lbs	10	Each
FSWH	Bronze Spinnaker Swivels	1/2	2 1/8"	1500 lbs	10	Each
FSW1	Bronze Spinnaker Swivels	1	2 3/4"	2200 lbs	10	Each
FSW2	Bronze Spinnaker Swivels	2	3 1/8"	2600 lbs	10	Each
FSW3	Bronze Spinnaker Swivels	3	4 1/16"	3500 lbs	10	Each
FSW4	Bronze Spinnaker Swivels	4	5 1/4"	3900 lbs	5	Each



## Bronze Spinnaker Swivel Shackles

Marine grade bronze swivel with shackle on one end. The incorporated shackle eliminates the need for webbing or hand sewing when attaching to the spinnaker.

PART	DESCRIPTION	LENGTH	MAX LOAD	QTY/PKG	ORDER BY
FSWS	Spinnaker Swivel Shackles	2 3/4"	1500 lbs	10	Each



## Stainless Steel Sister Clips with Ferrules

Great for many One Design spinnaker sheets where light weight, strength and quick release are necessary. Stainless ferrule reduces webbing and line chafe.

PART	DESCRIPTION	LENGTH	QTY/PKG	ORDER BY
FHA75	SS Sister Clip w/Ferrules	1 1/2"	100	Each



## Aluminum Alloy Sister Clips

Similar to Stainless Steel version except made of super light weight Aluminum Alloy for smaller boats with lower load requirements.

PART	DESCRIPTION	LENGTH	QTY/PKG	ORDER BY
FHA74	Aluminum Alloy Sister Clip	1 3/8"	100	Each



## Aluminum Brummel Hooks

Traditional smooth and rounded brummel hook. Fast jaw style features a screw-pin for quick and easy installation on smaller spinnakers.

PART	DESCRIPTION	TYPE	LENGTH	ORDER BY
FBE00	Aluminum Brummel Hook	#00 Fast Eye	1 5/8"	Each
FBJ00	Aluminum Brummel Hook	#00 Fast Jaw	1 3/4"	Each



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## Plastic Shackles with Stainless Steel Screws

All purpose plastic shackles, complete with appropriate screws.



PART	DESCRIPTION	TYPE	OUTER LENGTH	INNER LENGTH	INNER WIDTH	QTY/ PKG	ORDER BY
FSHAB	Plastic Shackles w/SS Screws	B Shkl	1 5/8"	1"	5/16"	100	Each
FSHAA	Plastic Shackles w/SS Screws	A Nr	1 5/8"	1"	5/16"	100	Each
FPPN63	Plastic Shackles w/SS Screws	C Shkl	1 1/4"	3/4"	1/4"	100	Each

## Hex-Head Delrin Shackles

The strongest screw-on plastic shackles.



PART	DESCRIPTION	PIN DIA	OUTER LENGTH	INNER LENGTH	INNER WIDTH	QTY/ PKG	ORDER BY
FHEX4	Hex-Head Shackle	1/4"	1 7/16"	15/16"	7/16"	100	Each
FHEX5	Hex-Head Shackle	5/16"	1 11/16"	1"	1/2"	100	Each

## Super-Snap Plastic Shackles

Features include an auto-locking "super snap" for increased loads and a slide retainer to help prevent the sail slide from jamming.



PART	DESCRIPTION	SIZE	OUTER LENGTH	INNER LENGTH	INNER WIDTH	QTY/ PKG	ORDER BY
FSHB	Super-Snap Shackle	SM	1 1/2"	1"	5/16"	100	Each
FSHC	Super-Snap Shackle	LG	1 7/8"	1 1/8"	3/8"	100	Each

## Snap-On Plastic Shackles

Simple basic snap-on shackle fits a variety of sail slugs and slides and reduces installation time.



PART	DESCRIPTION	OUTER LENGTH	INNER LENGTH	INNER WIDTH	QTY/ PKG	ORDER BY
FSHA	Snap On Shackle	1 1/2"	1"	1/4"	100	Each

## Plastic Fan Shackles

Designed to prevent slide rocking, comes complete with screws. Fits number eight Metal Mast slide.

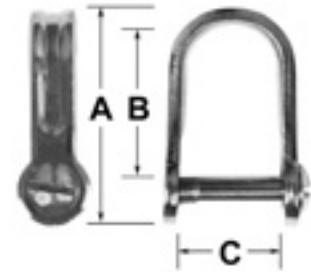


PART	DESCRIPTION	OUTER LENGTH	INNER LENGTH	INNER WIDTH	QTY/ PKG	ORDER BY
FPFS	Fan Shackle	13/16"	9/32"	7/8"	100	Each

## Stainless Steel Shackles

These shackles have rolled edges to reduce chafe. Quickest and strongest method of sail-slide attachment. We recommend using chafe protectors to prevent luff rope wear.

PART	DESCRIPTION	DIM A	DIM B	DIM C	QTY/ PKG	ORDER BY
FSHS5	SS Shackle	59/64"	5/8"	25/64"	100	Each
FSHS6	SS Shackle	1 3/32"	23/32"	29/64"	100	Each
FSHS7	SS Shackle	1 13/32"	7/8"	5/8"	100	Each
FSHS8	SS Shackle	1 29/64"	1 1/32"	29/64"	100	Each



## Shackle Chafe Protectors

Dye cut from .040 gauge vinyl.

PART	DESCRIPTION	DIM A	DIM B	FITS SHKL	QTY/ PKG	ORDER BY
FSP8	Shackle Chafe Protector	1 3/8"	1 15/16"	FSHS5	100	Full Pkg
FSP12	Shackle Chafe Protector	1 17/32"	2 3/16"	FSHS6	100	Full Pkg
FSP2	Shackle Chafe Protector	2 1/16"	2 19/32"	FSHS7	100	Full Pkg
FSP6	Shackle Chafe Protector	2 9/32"	3 1/32"	FSHS8	100	Full Pkg



## High Quality Bronze Shackles

Strong and beautiful marine grade bronze for a variety of uses.

PART	DESCRIPTION	THCK	OUTER LENGTH	INNER LENGTH	INNER WIDTH	QTY/ PKG	ORDER BY
FSH4	Bronze Shackle	1/4"	2"	1 3/8"	5/8"	50	Each
FSH5	Bronze Shackle	5/16"	2 1/2"	1 3/8"	5/8"	50	Each



## Plastic Mast Hoops

Snaps securely shut without tools. Designed to quickly attach lateen rig sails to booms. Perfect fit for Sunfish and Sunfish style boats.

PART	DESCRIPTION	FITS TUBE	QTY/PKG	ORDER BY
FHOOP	Plastic Mast Hoop	1.5"	25	Each



## ATN Tacker

This unique product is designed to allow a conventional or asymmetrical spinnaker to be flown without a pole, by holding the tack of the spinnaker close to the centerline of the boat. Special molded polyethylene collar is designed to run smoothly over a roller furling genoa without chafing and gives a trimmer maximum control over the luff of the spinnaker. A must for cruisers or short-handed sailors. Quickly attaches to forestay with snap shackle.

PART	DESCRIPTION	SYSTEM	HEADSTAY LENGTH	ORDER BY
FATNA	ATN Tacker	A	up to 45'	Each
FATNB	ATN Tacker	B	46' to 65'	Each
FATNC	ATN Tacker	C	66' and up	Each



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## Gransegel Leechline Cleats



Light weight sew-on style cleats are a great choice for leech cord cleats on smaller boats, and as foot cords on larger boats. Lower profile does not get caught in the rig on tacks. We recommend using only braided Dacron or nylon leech cord in these cleats as aramids will prematurely wear-out cleat.

PART	DESCRIPTION	SIZE	USES LEECHLINE	QTY/ PKG	ORDER BY
FCLGS	Gransegel Leechline Cleat	SM	L40, L50, L205	100	Each
FCLGL	Gransegel Leechline Cleat	LG	L205, L505, L805	100	Each
FCLGX	Gransegel Leechline Cleat	XL	L505, L805	50	Each

## Plastic Leechline Edge Cleats



Durable and light weight sew-on style cleats are installed on the very edge of the leech of the sail. These work well as leech line tensioners or foot tensioners. Low-profile, rounded edges avoid catching in the rig. Use only with Dacron or Nylon leech cord; aramid or Spectra/Dyneema will quickly wear plastic teeth in cleat.

PART	DESCRIPTION	SIZE	LENGTH	USES LEECHLINE	QTY/ PKG	ORDER BY
FCL177	Plastic Leechline Edge Cleat	SM	1 1/4"	L40, L50, L205	100	Each
FCL178	Plastic Leechline Edge Cleat	MD	1 15/16"	L205, L505, L805	100	Each
FCL179	Plastic Leechline Edge Cleat	LG	2 1/4"	L505, L805	100	Each

## Clamcleat Leechline Edge Cleats



Clamcleat's high quality impact resistant nylon plastic in an edge cleat configuration. If using other than Dacron or nylon leech cord, use the FCL267 version with aluminum teeth. Sides of cleats flex for easy installation over different thicknesses of leech tape. Can be riveted or sewn on (rivets not included).

PART	DESCRIPTION	TYPE	INCL	USES LEECHLINE	QTY/ PKG	ORDER BY
FCL267	Nylon Leechline Edge Cleat	Sew-on	Cleat	L40, L50, L205, L505, L805, LT3-5, LDS3, 4, 6	100	Each
FCL269	Nylon Leechline Edge Cleat	Sew-on	Cleat	L40, L50, L205, L505, L805	100	Each

## Composite & Stainless Steel Port Side Leechline Cleats

Composite cleats offer the light weight of plastic with the added durability of fiberglass reinforced jam-cleating jaws. Stainless steel version recommended for high-load applications, or if aramid or Spectra/Dyneema leechline is used. Composite set includes cleat, backing plate and rivets. Stainless steel version includes only the cleat for sewing on.

PART	DESCRIPTION	TYPE	INCLD	USES LEECHLINE	QTY/ PKG	ORDER BY
FPNP25A	Captive Port Side	Rivet-on	Set	505, 805	10	Sets
FPNP25B	Captive SS Port Side	Sew-on	Cleat	505, 805, LT4 LT5, LDS4, LDS6	10	Sets



## Plastic Leechline Clamcleats

Plastic Clamcleat leechline cleats are light weight, durable and have enhanced holding power due to multi-row jam-cleating system. We recommend using only Dacron or Nylon leech cords in plastic cleats to prevent cleat from wearing out. Note: Sew-on cleats include only the cleat, and rivet-on sets include cleat, backing plate and rivets.

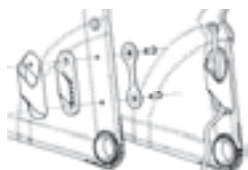
PART	DESCRIPTION	TYPE	INCLD	USES LEECHLINE	QTY/ PKG	ORDER BY
<b>Dinghy Leechline Clamcleats</b>						
FCL221	Dinghy	Rivet-on	Set	40, 50, 205	100	Sets

### Starboard Side Leechline Clamcleats

FCLA212	Open Port Side	Sew-on	Cleat	205, 505, 805	100	Each
FCL212	Open Port Side	Rivet-on	Set	205, 505, 805	100	Sets
FCL212A	Port Side Clamcleat Cover	--	--	For Cleats: FCL212, FCL258	100	Each
FCL233	Captive Port Side	Sew-on	Cleat	205, 505, 805	100	Each
FCL233B	Captive Back Plate	Rivet-on	Set	--	100	Sets

### Port Side Leechline Clamcleats

FCLA214	Starboard	Sew-on	Cleat	205, 505, 805	100	Each
FCL214	Starboard	Rivet-on	Set	205, 505, 805	100	Sets



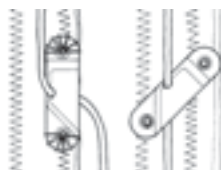
FCL212(A) / FCL258(A)



FCL212 (ALT)



FCL233



FCL214





## Aluminum Leechline Clamcleats

Solid aluminum leechline cleats offer the best and strongest holding power of any of our leechline cleats. Silver anodized to resist corrosion. Note: Sew-on cleats include only the cleat, and rivet-on sets include cleat, backing plate and rivets.

PART	DESCRIPTION	TYPE	INCLD	USES LEECHLINE	QTY/ PKG	ORDER BY
<b>Port Side Leechline Clamcleats</b>						
FCLA241	Captive Starboard Side	Sew-on	Cleat	505, 805	10	Each
FCL241	Captive Starboard Side	Rivet-on	Set	505, 805	10	Sets
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FCL273	Captive Port Side	Sew-on	Cleat	505, 805	10	Sets
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FCLA258	Open Port Side	Sew-on	Cleat	505, 805	10	Each
FCL258	Open Port Side	Rivet-on	Set	505, 805	10	Sets
<hr/>						
<b>Starboard Leechline Clamcleats</b>						
FCLA259	Open Starboard	Sew-on	Cleat	505, 805	10	Each
FCL259	Open Starboard	Rivet-on	Set	505, 805	10	Sets

## Hard Coated Aluminum Leechline Clamcleats

Identical to Aluminum Clamcleats listed above except these cleats are Hard Coat Anodized (in black) to prevent corrosion due to electrolysis. The best choice for carbon-fiber sails. Note: Sew-on cleats include only the cleat, and rivet-on sets include cleat, backing plate and rivets.



PART	DESCRIPTION	TYPE	INCLD	USES LEECHLINE	QTY/ PKG	ORDER BY
<b>Port Side Leechline Clamcleats</b>						
FCLA241AN	Captive Port Side	Sew-on	Cleat	505, 805	10	Each
FCL241AN	Captive Port Side	Rivet-on	Set	505, 805	10	Sets
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FCLA258AN	Open Port Side	Sew-on	Cleat	505, 805	10	Each
FCL258AN	Open Port Side	Rivet-on	Set	505, 805	10	Sets
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<b>Starboard Leechline Clamcleats</b>						
FCLA259AN	Open Starboard	Sew-on	Cleat	505, 805	10	Each
FCL259AN	Open Starboard	Rivet-on	Set	505, 805	10	Sets

## Clamcleat Spare Backplates and Rivets

Backing plates and rivets to allow riveted installations of any Clamcleat product.

PART	DESCRIPTION	COLOR	QTY/PKG	ORDER BY
FCLBP	Clamcleat Backing Plate	White	100	Each
FCLBPB	Clamcleat Backing Plate	Black	100	Each
FCLR	Clamcleat Rivets	Aluminum	20	Full Pkg

## Wooden Mast Hoops

High quality hoops are steam bent from clear straight grain white oak and laminated for greater strength and then finished with a 65/35 mixture of pure linseed oil and pure gum turpentine. Hoops are supplied in copper riveted style. Inside diameter of hoop should be 25% larger than the diameter of the mast at its greatest point. Other sizes and bolted model are available on a special order basis, please inquire.

PART	DESCRIPTION	INSIDE DIA	ORDER BY
FWH3R	Wooden Mast Hoop	3"	Each
FWH4R	Wooden Mast Hoop	4"	Each
FWH5R	Wooden Mast Hoop	5"	Each
FWH6R	Wooden Mast Hoop	6"	Each
FWH65R	Wooden Mast Hoop	6.5"	Each
FWH7R	Wooden Mast Hoop	7"	Each
FWH8R	Wooden Mast Hoop	8"	Each
FWH9R	Wooden Mast Hoop	9"	Each
FWH10R	Wooden Mast Hoop	10"	Each
FWH11R	Wooden Mast Hoop	11"	Each
FWH12R	Wooden Mast Hoop	12"	Each



## Hoop Sail Fasteners

These fasteners are made of Investment Cast bronze. They are available in two sizes, small for hoops up to 6", and large for hoops 7" through 12". Male half should be sewn to sail with sailtwine or waxed hand sewing thread. Female half should be attached to mast hoop with flat head wood screws.

PART	DESCRIPTION	SIZE	TYPE	QTY/PKG	ORDER BY
FH1	Hoop Sail Fastener	SM	Male	10	Each
FH2	Hoop Sail Fastener	SM	Female	10	Each
FHL1	Hoop Sail Fastener	LG	Male	10	Each
FHL2	Hoop Sail Fastener	LG	Female	10	Each



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**D-Rings**

High grade TIG welded stainless steel.



PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/PKG	ORDER BY
GD1	D-Ring	1"	3/16"	25	Each
GD1Q	D-Ring	1 1/4"	3/16"	25	Each
GD1H	D-Ring	1 1/2"	3/16"	25	Each
GD2	D-Ring	2"	1/4"	25	Each
GD2B	D-Ring	2 3/8"	5/16"	25	Each
GD3B	D-Ring	3 1/8"	3/8"	20	Each
GD4Q	D-Ring	4"	7/16"	10	Each

**Coletech D-Rings with Bar**

High grade TIG welded stainless steel with reinforcing bar helps prevent distortion and twisting of D-Ring.



PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/PKG	ORDER BY
GDB2	D-Ring with Bar	2"	1/4"	25	Each
GDB23	D-Ring with Bar	2 3/8"	5/16"	25	Each
GDB24	D-Ring with Bar	2 3/4"	5/16"	10	Each
GDB3	D-Ring with Bar	3"	5/16"	10	Each

**Butterfly D-Rings / Clew Pieces**

Designed for high strength from stainless steel with slots to reduce webbing slippage.



PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/PKG	ORDER BY
GBDR2	Butterfly D-Ring/Clew	2"	1/4"	25	Each
GBDR23	Butterfly D-Ring/Clew	2 3/8"	5/16"	25	Each
GBDR24	Butterfly D-Ring/Clew	2 3/4"	3/8"	25	Each
GBDR4	Butterfly D-Ring/Clew	4"	7/16"	10	Each

**Coletech Butterfly D-Rings / Clew Pieces**

Highest quality stainless steel clew pieces with slots to reduce webbing slippage.



PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/PKG	ORDER BY
GBDR26	Butterfly D-Ring/Clew	2 5/8"	3/8"	10	Each
GBDR3	Butterfly D-Ring/Clew	3"	7/16"	10	Each

**Coletech Diamond D-Rings**

High grade TIG welded stainless steel allows webbing to be aligned with the load paths of the sail.



PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/PKG	ORDER BY
GDD2	Diamond D-Ring	2"	5/16"	10	Each
GDD8	Diamond D-Ring	2 5/8"	3/8"	10	Each
GDD3	Diamond D-Ring	3"	7/16"	10	Each
GDD4	Diamond D-Ring	4"	1/2"	10	Each
GDD48	Diamond D-Ring	4"	5/8"	10	Each



## Coletech Welded Round Rings

Highest quality TIG welded stainless steel round rings.

PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/PKG	ORDER BY
GRA	Welded Round Ring	1"	3/16"	25	Each
GRB	Welded Round Ring	1"	1/4"	25	Each
GRC	Welded Round Ring	1 1/4"	3/16"	25	Each
GRD	Welded Round Ring	1 1/4"	1/4"	25	Each
GRE	Welded Round Ring	1 1/4"	5/16"	25	Each
GRF	Welded Round Ring	1 1/2"	1/4"	25	Each
GRG	Welded Round Ring	1 1/2"	5/16"	25	Each
GRH	Welded Round Ring	1 1/2"	3/8"	25	Each
GRI	Welded Round Ring	1 3/4"	5/16"	25	Each
GRI3	Welded Round Ring	1 3/4"	3/8"	25	Each
GRJ	Welded Round Ring	2"	1/4"	25	Each
GRK	Welded Round Ring	2"	5/16"	25	Each
GRL	Welded Round Ring	2"	3/8"	25	Each
GRL7	Welded Round Ring	2"	7/16"	25	Each
GRM	Welded Round Ring	2 1/2"	5/16"	25	Each
GRN	Welded Round Ring	2 1/2"	3/8"	25	Each
GRO	Welded Round Ring	3"	5/16"	25	Each



## Coletech Maxi Rings

High grade TIG welded stainless steel with reinforcing bar to help prevent distortion.

PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/PKG	ORDER BY
GRW	Maxi Ring	1 1/2"	3/8"	10	Each
GRX	Maxi Ring	2"	7/16"	10	Each
GRY	Maxi Ring	2 1/2"	1/2"	10	Each
GRZ	Maxi Ring	3"	5/8"	10	Each



## Heavy Solid Brass Rings

Use by themselves or as the inner ring on traditional-style hand-sewn-in rings.

PART	DESCRIPTION	INSIDE DIA	THICKNESS	QTY/PKG	ORDER BY
GBRA	Solid Brass Ring	1/2"	1/8"	100	Each
GBRB	Solid Brass Ring	5/8"	5/32"	100	Each
GBRC	Solid Brass Ring	3/4"	3/16"	100	Each
GBRD	Solid Brass Ring	7/8"	3/16"	50	Each
GBRE	Solid Brass Ring	1"	3/16"	50	Each
GBRF	Solid Brass Ring	1 1/8"	3/16"	50	Each
GBRG	Solid Brass Ring	1 1/4"	1/4"	50	Each
GBRH	Solid Brass Ring	1 1/2"	5/16"	25	Each



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## High Strength Plastic Round Rings

A good, light-weight alternative to stainless in low load applications.



PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/ PKG	ORDER BY
GP04	Plastic Round Ring	1/2"	5/32"	100	Each
GP05	Plastic Round Ring	5/8"	5/32"	100	Each
GP06	Plastic Round Ring	3/4"	3/16"	100	Each
GP07	Plastic Round Ring	13/16"	5/16"	100	Each
GP08	Plastic Round Ring	1"	1/4"	100	Each
GP14	Plastic Round Ring	1 1/4"	1/4"	50	Each
GP15	Plastic Round Ring	1 1/4"	5/16"	50	Each
GP18	Plastic Round Ring	1 5/8"	3/8"	50	Each

## Triangles

High grade TIG welded stainless steel.



PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/ PKG	ORDER BY
GTR1	Triangle	1"	1/4"	25	Each
GTR2	Triangle	2"	1/4"	25	Each
GTR3	Triangle	3"	5/16"	25	Each

## Triangles with Bar

High grade TIG welded stainless steel with reinforcing bar to help prevent distortion.



PART	DESCRIPTION	INSIDE DIA	STOCK DIA	QTY/ PKG	ORDER BY
GTRB2	Triangle with Bar	2"	1/4"	25	Each
GTRB3	Triangle with Bar	3"	5/16"	25	Each

## Garhauer Clew Blocks

Strong, yet light-weight clew block features ball-bearing/needle bearing system for low friction for easy adjustment. These blocks represent great quality at a reasonable price.



PART	DESCRIPTION	SIZE	MAX LINE	MAX WEB	SHEAVE DIA	MAX LOAD	ORDER BY
FBG1	Garhauer Clew Block	S	3/8"	1 3/8"	2"	2000 lb	Each
FBG2	Garhauer Clew Block	M	1/2"	1 3/8"	3"	8800 lb	Each
FBG3	Garhauer Clew Block	L	7/8"	1 3/8"	4"	13200 lb	Each

## Web-On Clew Blocks

Light-weight anodized aluminum with three slots for webbing clew to mainsail.



PART	DESCRIPTION	SIZE	MAX LINE	MAX WEB	SHEAVE DIA	MAX LOAD	ORDER BY
FB1	Web-On Clew Block	S	3/8"	1 3/8"	2"	2000 lb	Each
FB2	Web-On Clew Block	M	1/2"	1 3/8"	3"	8800 lb	Each
FB3	Web-On Clew Block	L	7/8"	1 3/8"	4"	13200 lb	Each

## Rutgerson Outhaul Clew Blocks with Removable Sheave

Rutgerson's new outhaul clew blocks have been re-engineered for even better performance and lighter weight. All blocks now feature a removable acetal sheave to allow easy installation of a sail without having to remove the entire outhaul line. 60 mm sheave version has 3 mm thick aluminum cheek plates and 80 mm sheave has 4mm cheek plates. Webbing slots have been angled to better align with loads on the sail. A 5 mm stainless bolt quickly removes the sheave.

PART	DESCRIPTION	COLOR	SHEAVE DIA	MAX WEB	MAX LINE	SAFE LOAD	ORDER BY
BR1692-060S	Outhaul Block	Silver	60 mm	30 mm	12 mm	1200 kg	Each
BR1692-080S	Outhaul Block	Silver	80 mm	40 mm	16 mm	1650 kg	Each
BR1692-060B	Outhaul Block	Black	60 mm	30 mm	12 mm	1200 kg	Each
BR1692-080B	Outhaul Block	Black	80 mm	40 mm	16 mm	1650 kg	Each



## Ronstan Sportboat Clew Blocks

The perfect solution for many One-Designs or small boats that have 2 to 1 sheets.

PART	DESCRIPTION	SHEAVE DIA	MAX ROPE	MAX LOAD	ORDER BY
FB35286	Sportboat Clew Block	30 mm (1 3/16")	8 mm (5/16")	300 kg (660 lbs)	Each



## Tye-Tec Clew Blocks

Unique design allows this sheave-less reef block to be webbed to leech or luff of sail at reef instead of a ring. The result is lower friction for quicker reefing and less line wear.

PART	DESCRIPTION	MAX LINE	BEARING STYLE	SHEAVE DIA	MAX LOAD	ORDER BY
FBT20100	Clew Block	10 mm	Plain	100 mm	2500 kg	Each
FBT21100	Clew Block	10 mm	Radial	100 mm	2500 kg	Each
FBT20120	Clew Block	14 mm	Plain	120 mm	4000 kg	Each
FBT22120	Clew Block	14 mm	Axial Needle	120 mm	4000 kg	Each
FBT21140	Clew Block	16 mm	Radial	140 mm	6000 kg	Each
FBT22140	Clew Block	16 mm	Axial Needle	140 mm	6000 kg	Each



## Tye-Tec Reef Blocks

Unique design provides full-function while eliminating unnecessary weight. Features rope/line cover shield on sail-side of block to avoid snags.

PART	DESCRIPTION	MAX LINE	BEARING STYLE	SHEAVE DIA	MAX LOAD	ORDER BY
FBT40100	Reef Block	10 mm	Plain	100 mm	2500 kg	Each
FBT41100	Reef Block	10 mm	Radial	100 mm	2500 kg	Each
FBT40120	Reef Block	10 mm	Axial Needle	100 mm	2500 kg	Each
FBT41120	Reef Block	14 mm	Plain	120 mm	4000 kg	Each
FBT42120	Reef Block	14 mm	Axial Needle	120 mm	4000 kg	Each
FBT40140	Reef Block	16 mm	Plain	140 mm	6000 kg	Each
FBT41140	Reef Block	16 mm	Radial	140 mm	6000 kg	Each
FBT42140	Reef Block	16 mm	Axial Needle	140 mm	6000 kg	Each



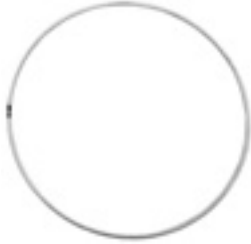
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## Coletech Turtle Hoops

High grade TIG welded stainless steel manufactured by Coletech. When sewn into spinnaker bags they make launching and stuffing of spinnakers easier.



PART	DESCRIPTION	INNER DIA	THICKNESS	QTY/ PKG	ORDER BY
GHP12	Turtle Hoop	12"	3/16"	10	Each
GHP16	Turtle Hoop	16"	3/16"	10	Each
GHP18	Turtle Hoop	18"	3/16"	10	Each
GHP20	Turtle Hoop	20"	3/16"	10	Each
GHP24	Turtle Hoop	24"	3/16"	10	Each
GHP30	Turtle Hoop	30"	3/16"	10	Each

## Solid Stainless Steel Thimbles

Good solution for jib luff wires, tack or head pennants or any application that does not require a split thimble. Rounded edges won't catch on sails, hardware or fingers.



PART	DESCRIPTION	WIRE DIA	LENGTH	INNER DIA	QTY/ PKG	ORDER BY
FTJ1	Solid Stainless Thimble	1/8"	1"	7/16"	50	Each
FTJ2	Solid Stainless Thimble	5/32"	1 1/4"	1/2"	50	Each
FTJ3	Solid Stainless Thimble	15/64"	1 5/8"	3/4"	50	Each
FTJ4	Solid Stainless Thimble	5/16"	2 1/8"	11/16"	50	Each

## Split Stainless Steel Thimbles

Premium quality stainless steel with rounded edges. Split opening allows thimbles to be attached to solid fixed holes in rigging, eyelets and anchors.



PART	DESCRIPTION	WIRE DIA	LENGTH	INNER DIA	QTY/ PKG	ORDER BY
FTK25	Split Stainless Thimble	5/32"	1 1/8"	13/32"	10	Each
FTK1	Split Stainless Thimble	5/32"	1 3/4"	1/2"	10	Each
FTK2	Split Stainless Thimble	3/16"	1 1/2"	1/2"	10	Each
FTK3	Split Stainless Thimble	1/4"	2"	5/8"	10	Each
FTK4	Split Stainless Thimble	5/16"	2 1/4"	3/4"	10	Each

## Brass Thimbles

Great for jacklines on mainsail luffs, attaching luff slides, or roping-in sail corners.



PART	DESCRIPTION	OUTER DIA	WIRE DIA	INNER DIA	QTY/ PKG	ORDER BY
FTHA	Brass Thimble	1/2"	1/4"	1/4"	25	Each
FTHB	Brass Thimble	5/8"	3/8"	1/4"	25	Each
FTHC	Brass Thimble	3/4"	7/16"	5/16"	25	Each
FTHD	Brass Thimble	1"	5/8"	3/8"	25	Each
FTHE	Brass Thimble	1 1/4"	3/4"	1/2"	25	Each

## Nicopress Sleeves

Zinc plated copper sleeves for fastening wire rope. Use with a thimble to make an eye.

PART	DESCRIPTION	WIRE DIA	LENGTH	QTY/PKG	ORDER BY
GNP2	Nicopress Sleeve	1/16"	3/8"	100	Full Pkgs
GNP3	Nicopress Sleeve	3/32"	3/8"	100	Full Pkgs
GNP4	Nicopress Sleeve	1/8"	9/16"	100	Full Pkgs
GNP5	Nicopress Sleeve	5/32"	5/8"	100	Full Pkgs
GNP6	Nicopress Sleeve	3/16"	15/16"	100	Full Pkgs
GNP7	Nicopress Sleeve	7/32"	1"	100	Full Pkgs
GNP8	Nicopress Sleeve	1/4"	1 1/8"	100	Full Pkgs



## Professional Quality Nicopress Hand Closing Tools

Made of hardened steel. Keep joints well greased for long life.

PART	DESCRIPTION	TYPE	FOR SLEEVES	ORDER BY
GNT2	Nicopress Hand Closing Tool	51-C	GNP2 & 3	Each
GNTCGMP	Nicopress Hand Closing Tool	CGMP	GNP2 – 5	Each
GNT5	Nicopress Hand Closing Tool	51-P	GNP5	Each
GNT6	Nicopress Hand Closing Tool	51-X	GNP6	Each
GNT7	Nicopress Hand Closing Tool	3-F2	GNP7	Each
GNT8	Nicopress Hand Closing Tool	3-F6	GNP8	Each
GNT9	Nicopress Hand Closing Tool	3-G9	GNP9	Each



## Best Quality Scandinavian Wire Cutters

First rate wire cutters feature specialized hardened blades that stay sharp for a long time. Smallest size is handy for cutting out grommets in addition to wire. Larger sized cutters feature replaceable blades that make your old set of cutters as good as new.

PART	DESCRIPTION	TYPE	MAX CUT DIA	ORDER BY
TC7	Scandinavian Wire Cutter	C-7	3/16"	Each
TC9	Scandinavian Wire Cutter	C-9	1/4"	Each
TC12	Scandinavian Wire Cutter	C-12	3/8"	Each
TC16	Scandinavian Wire Cutter	C-16	5/8"	Each
TCR9	Replacement Wire Cutter Blades	C-9	--	Set
TCR12	Replacement Wire Cutter Blades	C-12	--	Set
TCR16	Replacement Wire Cutter Blades	C-16	--	Set



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## Rutgerson Web-On Headboards



Rutgerson has designed a new line of web-on, high-quality black anodized aluminum headboards for use with their 'Limousine' mainsail handling system. The web-on configuration allows for much faster installations over traditional riveted or even rivet-less headboards as no liners, rivets or closing tools are required. Stainless liners in halyard eye easily handle loads on larger boats. These headboards are designed for use with Rutgerson Headboard Cars which will provide a high-performance, robust and lightweight system for handling the mainsail on any yacht. Available in standard sizes or for square-top mains on multihulls and some newer monohulls. See boat size application chart to determine which system is the best choice for your project.



PART	DESCRIPTION	WIDTH	HEIGHT	ORDER BY
GHA1	Standard Web-on Headboard System A	140 mm	156 mm	Each
GHA2	Multihull Web-on Headboard System A	189 mm	157 mm	Each
GHB1	Standard Web-on Headboard System B	194 mm	219 mm	Each
GHB2	Multihull Web-on Headboard System B	246 mm	218 mm	Each
GHC1	Standard Web-on Headboard System C	199 mm	180 mm	Each
GHC2	Multihull Web-on Headboard System C	237 mm	180 mm	Each

### SYSTEM A



Monohull Headboard A1



Multihull & Fat Headboard A1

### SYSTEM B



Monohull Headboard B1



Multihull & Fat Headboard B2

### SYSTEM C



Monohull Headboard C1

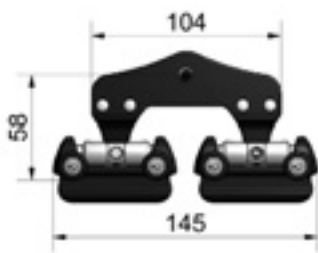


Multihull & Fat Headboard C2

## Rutgerson Headboard Cars

Black anodized aluminum headboard cars from Rutgerson are engineered to handle loads on larger boats. These attach easily with a stainless pin to the Rutgerson Web-On Headboards. Each car has 2 or 3 sub-cars to spread the load and allow for easy raising and lowering of the mainsail. Cars can be removed for easy entry into small mast-track gates if necessary. Refer to Battcar Mast Selection Guide on page 32 for guidance on which style headboard car to order for your project.

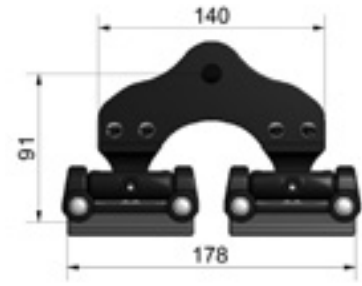
PART	DESCRIPTION	CAR SYSTEM	HORIZONTAL SWL	ORDER BY
BRA111	System A Headboard Car	2 x 1530-11	1290 lbs	Each
BRA112	System A Headboard Car	2 x 1531-11	1290 lbs	Each
BRA16	System A Headboard Car	2 x 1530-16	1290 lbs	Each
BRA19	System A Headboard Car	2 x 1530-19	1290 lbs	Each
BRA20	System A Headboard Car	2 x 1530-20	1290 lbs	Each
BRA23	System A Headboard Car	2 x 1530-23	1290 lbs	Each
BRB11	System B Headboard Car	3 x 1535-11	1510 lbs	Each
BRB20	System B Headboard Car	3 x 1535-20	1510 lbs	Each
BRB23	System B Headboard Car	3 x 1535-23	1510 lbs	Each
BRC23	System C Headboard Car	2 x 1540-23	3047 lbs	Each



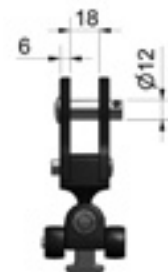
System A Headboard Cars



System B Headboard Cars



System C Headboard Cars



### SYSTEM A – C APPLICATION CHART

System	Car System	Monohull	Equiv. Sail Area	Multihull	Equiv. Sail Area
A	1530 / 1531	Up to 38 ft	40 m <sup>2</sup> / 430 ft <sup>2</sup>	Up to 31 ft	28 m <sup>2</sup> / 300 ft <sup>2</sup>
B	1535	Up to 47 ft	55 m <sup>2</sup> / 590 ft <sup>2</sup>	Up to 38ft	40 m <sup>2</sup> / 430 ft <sup>2</sup>
C	1540	Up to 60 ft	80 m <sup>2</sup> / 860 ft <sup>2</sup>	Up to 47 ft	55 m <sup>2</sup> / 590 ft <sup>2</sup>

## Plastic Dinghy Headboards



Deluxe models feature large 3/16" rivet holes and a fine finish.

PART	DESCRIPTION	WIDTH	HEIGHT	USE RIVET	USE LINER	QTY/ PKG	ORDER BY
GHP4	Dinghy Headboard	4"	4 1/2"	1/8"	5/8"	50	Each
GHP5	Dinghy Headboard	4 1/2"	5"	1/8"	5/8"	50	Each
GH43	Deluxe Dinghy Headboard	3"	4"	3/16"	5/8"	50	Each
GH44	Deluxe Dinghy Headboard	4"	4 1/2"	3/16"	5/8"	50	Each

## Rutgerson Plastic & Composite Headboards



Extremely light weight, yet strong and durable. Edges are well rounded; does not require extra work for webbing attachments, etc.

PART	DESCRIPTION	WIDTH	HEIGHT	THICK	USE LINER	QTY/ PKG	ORDER BY
GH04090	White Plastic Headboard	2 3/4"	3 1/2"	2.5 mm	19 mm	50	Each
GH05090	Grey Composite Headboard	2 3/4"	3 1/2"	2.5 mm	19 mm	50	Each
GH1105-115	Grey Composite Headboard	4"	4 1/2"	3 mm	19 mm	50	Each
GH05135	Grey Composite Headboard	4 1/2"	5 1/3"	4 mm	19 mm	50	Each

## 1/16" Gold Anodized Aluminum Headboards



Made of high-quality aircraft grade aluminum with a durable Anodized coating. A perfect thickness for dinghy and small keel boats. All sizes feature webbing slots.

PART	DESCRIPTION	WIDTH	HEIGHT	USE RIVET	USE LINER	QTY/ PKG	ORDER BY
GHA	Gold Headboard	4"	5"	3/16"	7/8"	50	Each
GHB	Gold Headboard	4 1/2"	5 3/4"	3/16"	7/8"	50	Each
GHD	Gold Headboard	5 1/4"	6 3/4"	3/16"	7/8"	50	Each
GHF	Gold Headboard	6"	7 1/2"	3/16"	7/8"	50	Each
GH6	Gold Headboard	6"	6"	3/16"	7/8"	50	Each
GH3	Gold Headboard	3 1/2"	4 7/8"	1/8"	7/8"	50	Each

## 1/8" Gold Anodized Aluminum Headboards



Made of high-quality aircraft grade aluminum with a durable Anodized coating. Thicker headboards are designed for medium to large boats. All sizes feature webbing slots.

PART	DESCRIPTION	WIDTH	HEIGHT	USE RIVET	USE LINER	QTY/ PKG	ORDER BY
GHC	Gold Headboard	4 1/2"	5 3/4"	3/16"	7/8"	50	Each
GHE	Gold Headboard	5 1/4"	6 3/4"	3/16"	7/8"	50	Each
GHG	Gold Headboard	6"	7 1/2"	3/16"	7/8"	50	Each
GHI	Gold Headboard	7 1/4"	9"	3/16"	7/8"	50	Each
GHJ	Gold Headboard	8 1/2"	10 1/2"	3/16"	7/8"	50	Each



## 1/16" Gold Anodized Aluminum Iceboat Headboards

Designed specifically for DN class ice boats. 1/16th thick.

PART	DESCRIPTION	WIDTH	HEIGHT	THICK	USE RIVET	USE LINER	ORDER BY
GDN	Gold Iceboat Headboard	4"	5"	1/16"	3/16"	50	Each



## 1/16" Silver Rivetless Headboards

These special cut out 1/16" thick headboards save time by attaching to sail via 7/8" stainless steel liners. No more cutting tons of rivet holes that never seem to lineup.

PART	DESCRIPTION	WIDTH	HEIGHT	QTY/PKG	ORDER BY
GHAC	Silver Rivetless Headboard	4 1/2"	5 1/2"	50	Each
GHDC	Silver Rivetless Headboard	5 1/4"	6 1/2"	50	Each
GHFC	Silver Rivetless Headboard	6"	7 1/2"	50	Each



## 1/8" Silver Rivetless Headboards

These special cut out 1/8" thick headboards save time by attaching to sail via 7/8" stainless steel liners. No more cutting tons of rivet holes that are difficult to lineup.

PART	DESCRIPTION	WIDTH	HEIGHT	QTY/PKG	ORDER BY
GH4C	Silver Rivetless Headboard	4 1/2"	5 1/2"	50	Each
GHEC	Silver Rivetless Headboard	5 1/4"	6 1/2"	50	Each
GHGC	Silver Rivetless Headboard	6"	7 1/2"	50	Each
GHIC	Silver Rivetless Headboard	7 1/4"	9"	10	Each
GHJC	Silver Rivetless Headboard	8 1/2"	10"	10	Each



## Rutgerson Silver Anodized Aluminum Headboards

Quality silver anodized aluminum headboards. Choose between 2 or 4mm thicknesses.

PART	DESCRIPTION	WIDTH	HEIGHT	THICK	USE RIVET	USE LINER	ORDER BY
GH02090	Silver Rutgerson	3 5/8"	4 7/8"	1/16"	3/16"	19 mm	Each
GH02115	Silver Rutgerson	4 5/8"	6 1/2"	1/16"	3/16"	19 mm	Each
GH02135	Silver Rutgerson	5 3/8"	7 3/8"	1/16"	3/16"	19 mm	Each
GH03135	Silver Rutgerson	5 3/8"	7 3/8"	3/32"	3/16"	19 mm	Each
GH03160	Silver Rutgerson	6 3/8"	8 5/8"	3/32"	3/16"	19 mm	Each



## Rutgerson Silver Anodized Aluminum Headboards for One Designs

Quality silver anodized aluminum headboards. Slightly thinner than our 1/8" headboards (2 mm thick) which make them a popular choice for many one-design sails.

PART	DESCRIPTION	WIDTH	HEIGHT	THICK	USE RIVET	USE LINER	ORDER BY
GH2112	Silver Rutgerson One Design	4 1/2"	6 7/8"	2 mm	3/16"	19 mm	Each



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## 1/16" Finn Dinghy Headboards



Specifically designed for the Finn Dinghy this headboard features extra large head-flat and inverse-radiused hypotenuse for extra weight savings.

PART	DESCRIPTION	WIDTH	HEIGHT	USE RIVET	USE LINER	QTY/ PKG	ORDER BY
GHO	Finn Dinghy Headboard	5 1/4"	6 1/2"	3/16"	7/8"	50	Each

## 1/16" Tornado Headboards & Clewboards



Specifically designed to fit Tornado class catamaran. These headboards and clewboards also fit a variety of smaller multi-hulls as well. Choose between Stainless Steel for high strength or aluminum for lighter applications.

PART	DESCRIPTION	WIDTH	HEIGHT	USE RIVET	USE LINER	QTY/ PKG	ORDER BY
GHP	1/16" Aluminum Tornado Head	122 mm	90 mm	1/16"		50	Each
GHQ	1/16" Stainless Tornado Head	122 mm	90 mm	1/16"		50	Each
GHU	1/16" Aluminum Tornado Clew	6 1/2"	2"	1/8"		50	Each
GHV	1/16" Stainless Tornado Clew	6 1/2"	2"	1/8"		50	Each

## 1/16" Tack Plate



Thin tack plate is a favorite for many smaller beach catamarans.

PART	DESCRIPTION	WIDTH	HEIGHT	USE RIVET	USE LINER	QTY/ PKG	ORDER BY
GHT	1/16" Tack Plate	2 1/2"	2 1/2"	1/8"	5/8"	50	Each

## Clewboards



The ideal solution for multi-hulls or self-tacking jibs. Made of high grade aircraft aluminum with durable anodized coating. Multiple holes provide for sheeting angle adjustment.

PART	DESCRIPTION	WIDTH	HEIGHT	USE RIVET	USE LINER	QTY/ PKG	ORDER BY
GHW	1/16" Clewboard – 3 Hole	1 1/8"	5 1/2"	3/16"		50	Each
GHX	1/16" Clewboard – 5 Hole	1 5/8"	7 1/2"	3/16"		50	Each
GHY	1/16" Clewboard – 5 Hole	1 1/2"	8 1/8"	3/16"		50	Each
GHZ	1/16" Clewboard – 5 Hole	2"	6 1/2"	3/16"		50	Each

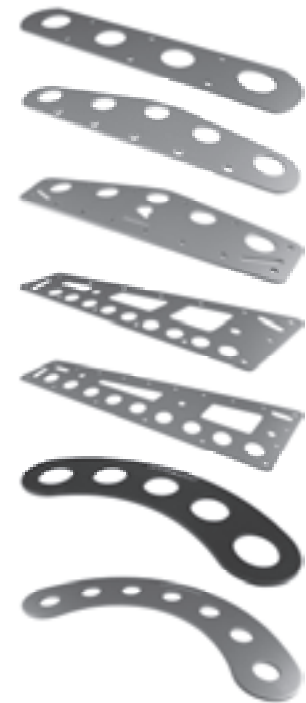
## Rutgerson Clewboards

High-quality, unique designs. Sturdy, anodized construction. Lighter versions can be installed with rivets and liners, heavier versions can be quickly installed with liners only. Multiple holes allow for changing jib sheeting angles.

PART	DESCRIPTION	LENGTH (MM)	WIDTH (MM)	THICK (MM)	USE LINER (MM)	ORDER BY
GH1190-045	Silver Anodized Clew	220	45	2	4 x 14	Each
GH1190-05	Silver Anodized Clew	190	50	2	5 x 14	Each
GH1190-090	Silver Anodized Clew	265	85	3	5 x 19	Each
GH1192-100	Silver Anodized Clew	280	100	2	9 x 14	Each
GH1192-130	Silver Anodized Clew	435	130	2	9 x 19	Each

GH1191-018B	Black Anodized Clew	183	45	3	5 x 19	Each
GH1191-018S	Silver Anodized Clew	183	45	3	5 x 19	Each

GH1191-030B	Black Anodized Clew	305	60	4	7 x 19	Each
GH1191-030S	Silver Anodized Clew	305	60	4	7 x 19	Each



## Stainless Steel Web-On Heavy-Duty Clewboards

Constructed out of water-cut high-quality stainless steel, these clewboards can withstand high loads developed by jib sheets on self-tending jibs of 40-60' boats. Slots allow for webbed attachment to clew, no need for liners.

PART	DESCRIPTION	LENGTH	WIDTH	THICK	ORDER BY
GHSS	SS Clewboard	30.5 mm (12")	78 mm (3")	4.5 mm (3/16")	Each



## Headboard Liners

Stainless steel liners are pre-flared at one end to aid in lining up of headboards in press.

PART	DESCRIPTION	DIA	QTY/PKG	ORDER BY
GHLB5	Brass Headboard Liner	5/8"	50	Each
GHLB7	Brass Headboard Liner	7/8"	50	Each
GHLSS7	Stainless Headboard Liner	7/8"	50	Each
GHLSS5	Stainless Headboard Liner	5/8"	50	Each



## Rutgerson Headboard Liners

Principally designed for use with Rutgerson Headboard and Clewboards. Liners are made of stainless steel with a thinner wall than our standard headboard liners. See headboard or clewboard description for correct size.

PART	DESCRIPTION	DIA	HEIGHT	QTY/PKG	ORDER BY
GHL1250-142	SS Headboard Liner	14 mm	22 mm	50	Each
GHL19	SS Headboard Liner	19 mm	22 mm	50	Each
GHL1250-192	SS Headboard Liner	19 mm	27 mm	50	Each



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## Headboard Leechline Blocks



Light-weight and low-profile bolt-on headboard blocks are a good solution for over-the-head leech cord systems. Supplied with one flat-head screw that is inserted through a hole in the headboard and threaded into the tapped center of the sheave, tab on cheek plate to be riveted through headboard.

PART	DESCRIPTION	QTY/PKG	ORDER BY
FLB	Headboard Leechline Block	10	Each

## Headboard Liner Closing Tools for Hydraulic Presses



Professional grade dies for closing our standard headboard liners.

PART	DESCRIPTION	FOR LINER	QTY/PKG	ORDER BY
GHLT5	Headboard Liner Closing Tool	5/8"	1	Each
GHLT7	Headboard Liner Closing Tool	7/8"	1	Each

## Semi-Tubular Rivet Closing Tools



Simple hand-setting closing tool for tubular rivets. For best results hit against a solid aluminum or steel backing plate.

PART	DESCRIPTION	FOR RIVET	QTY/PKG	ORDER BY
GRIVL2	Semi-Tubular Rivet Closing Tool	1/8"	1	Each
GRIVL3	Semi-Tubular Rivet Closing Tool	3/16"	1	Each

## Silver Semi-Tubular Rivets



Solid aluminum shank for added strength with hollow end for peening down. Finished with silver anodizing to resist corrosion.

PART	DESCRIPTION	DIA	LENGTH	USE WITH HEADBOARD	QTY/PKG	ORDER BY
GRIV2A	Silver Rivet	1/8"	3/8"	GHO, GHP, GHQ GHU, GHV, GHX	100	Full Pkg
GRIV3A	Silver Rivet	1/8"	1/2"	GHO, GHP, GHQ GHU, GHV, GHW, GHX	100	Full Pkg
GRIV5A	Silver Rivet	5/32"	3/8"	GHP4, GHP5	100	Full Pkg
GRIV4A	Silver Rivet	3/16"	1/2"	GHC, GHE GHG, GHI, GHJ	100	Full Pkg
GRIV6A	Silver Rivet	3/16"	3/8"	GHA, GHB, GHD	100	Full Pkg
GRIV7A	Silver Rivet	3/16"	5/8"	GHG, GHI, GHJ	100	Full Pkg

## Brass Tubular Rivets



Hollow, all-brass rivets are light weight yet strong enough to hold smaller-sized headboards together. Perfect for use in plastic and composite headboards.

PART	DESCRIPTION	DIA	LENGTH	USE WITH HEADBOARD	QTY/PKG	ORDER BY
GRI546	Brass Rivet	1/8"	7/16"	GHP4, GHP5	100	Full Pkg
GRI613	Brass Rivet	3/16"	7/16"	GHP4, GHP5	100	Full Pkg
GRI79	Brass Rivet	7/32"	5/16"	GHP4, GHP5	100	Full Pkg
GRI713	Brass Rivet	7/32"	7/16"	GHP4, GHP5	100	Full Pkg

## Rutgerson Super Ring Sets

High quality stainless steel and large gripping teeth that actually go through the cloth (not just the surface) make these Super Rings the best press-ring on the market. They are also fully removable saving time and labor on adjustments and re-cuts.\*

PART	DESCRIPTION	SIZE	QTY/PKG	ORDER BY
GSR10	Super Ring Set	10 mm	100	Sets
GSR12	Super Ring Set	12 mm	100	Sets
GSR14	Super Ring Set	14 mm	100	Sets
GSR14XL	Extra Long Super Ring Set	14 mm	100	Sets
GSR20	Super Ring Set	20 mm	100	Sets
GSR20LD	Light Duty Super Ring Set	20 mm	100	Sets
GSR25	Super Ring Set	25 mm	100	Sets
GSR25LD	Light Duty Super Ring Set	25 mm	100	Sets
GSR25SLD	Super Light Duty Super Ring Set	25 mm	100	Sets
GSR35	Super Ring Set	35 mm	100	Sets
GSR45	Super Ring Set	45 mm	50	Sets
GSR55	Super Ring Set	55 mm	50	Sets



## Rutgerson Carbon Super Ring Sets

Identical to the original Super Rings (listed above) except these rings are made of a very pure grade of stainless steel that resists corrosion due to electrolysis. This makes them the perfect choice for carbon fiber sails.\*

PART	DESCRIPTION	SIZE	QTY/PKG	ORDER BY
GSR20-C	Carbon Ring Set	20 mm	50	Sets
GSR25-C	Carbon Ring Set	25 mm	50	Sets
GSR35-C	Carbon Ring Set	35 mm	50	Sets
GSR45-C	Carbon Ring Set	45 mm	50	Sets



## Rutgerson Titanium Super Ring Sets

While sharing the same sizes as the above Super Rings, these press-in rings are constructed from high-quality Titanium. Titanium will not corrode, and therefore is an excellent choice for carbon laminate sails where corrosion of rings can be an issue. Beneficial to all sailors is the fact that these rings weigh 50% less than the stainless steel version.\*

PART	DESCRIPTION	SIZE	QTY/PKG	ORDER BY
GTSR14	Titanium Ring Set	14 mm	10	Sets
GTSR20	Titanium Ring Set	20 mm	10	Sets
GTSR25	Titanium Ring Set	25 mm	10	Sets
GTSR35	Titanium Ring Set	35 mm	10	Sets
GTSR45	Titanium Ring Set	45 mm	10	Sets



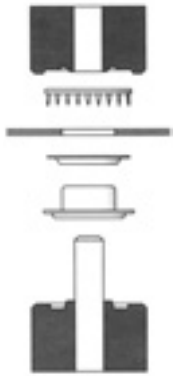
\* See page 82 for metric Arch hole cutters, page 76 for installation and removal dies.

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## Rutgerson Super Ring Closing Dies



High quality precision machined dies make installation a breeze. See chart (below) for approximate die force to adequately close rings. For dies to work properly they must be set on a square and level surface on press. Closing on uneven surfaces may result in incomplete or improper setting and excessive wear on dies.

PART	DESCRIPTION	FITS RING	ORDER BY
GSRT10	Super Ring Closing Die Hand Tool Set	10 mm	Sets
GSRT12	Super Ring Closing Die Hand Tool Set	12 mm	Sets
GSRT14	Super Ring Closing Die Hand Tool Set	14 mm	Sets
GSRT20	Super Ring Closing Die Press Tool Set	20 mm	Sets
GSRT25	Super Ring Closing Die Press Tool Set	25 mm	Sets
GSRT35	Super Ring Closing Die Press Tool Set	35 mm	Sets
GSRT45	Super Ring Closing Die Press Tool Set	45 mm	Sets
GSRT55	Super Ring Closing Die Press Tool Set	55 mm	Sets

## Rutgerson Super Ring Remover Tools



Another great feature of Rutgerson Super rings is that they are completely removable. Use these removing die sets to reverse or push-out a previously set ring. Saves time plus makes re-cuts or repairs cleaner and easier.

PART	DESCRIPTION	FITS RING	ORDER BY
GSRP14	Super Ring Remover Tool Set	14 mm	Sets
GSRP20	Super Ring Remover Tool Set	20 mm	Sets
GSRP25	Super Ring Remover Tool Set	25 mm	Sets
GSRP35	Super Ring Remover Tool Set	35 mm	Sets
GSRP45	Super Ring Remover Tool Set	45 mm	Sets
GSRP55	Super Ring Remover Tool Set	55 mm	Sets

## SUPER RING DIE SETTING COMPATIBILITY

Part	Ring Size	Hole Cutter	Press Force	Aprx Max Load	Patch Weight
GSR10	10 mm	GAH10	Hand	250 kg	25 – 35 oz
GSR12	12 mm	GAH12	Hand	330 kg	25 – 35 oz
GSR14	14 mm	GAH14	3 – 5 Tons/Hand	500 kg	25 – 40 oz
GTSR14	14 mm	GAH14	3 – 5 Tons	375 kg	25 – 40 oz
GSR20(C)	20 mm	GAH20	11 – 13 Tons	1500 kg	40 – 70 oz
GSR20LD	20 mm	GAH20	8 – 10 Tons	1125 kg	30 – 70 oz
GTSR20	20 mm	GAH20	11 – 13 Tons	840 kg	40 – 70 oz
GSR25(C)	25 mm	GAH25	15 Tons	1590 kg	50 – 70 oz
GSR25LD	25 mm	GAH25	11 – 13 Tons	1300 kg	50 – 70 oz
GSR25SLD	25 mm	GAH25	4 – 6 Tons	450 kg	20 – 40 oz
GTSR25	25 mm	GAH25	15 Tons	1190 kg	50 – 70 oz
GSR35(C)	35 mm	GAH35	22 Tons	2045 kg	70 – 90 oz
GTSR35	35 mm	GAH35	22 Tons	1530 kg	70 – 90 oz
GSR45(C)	45 mm	GAH45	25 Tons	2500 kg	80 – 100 oz
GTSR45	45 mm	GAH45	25 Tons	2500 kg	80 – 100 oz
GSR55	55 mm	GAH55	25 (1), 30 (2) Tons	3185 kg	80 – 100 oz

## Rutgerson Integral Outhaul Slug Slides

These press rings integrate a Rutgerson Super Ring with large outhaul slug-slide for a strong, time saving, clew ring installation.

PART	DESCRIPTION	FITS RING	FITS SLUG	ORDER BY
GA1207	Integral Outhaul Slug Slides	GSR14	7 mm	Each
GA1407	Integral Outhaul Slug Slides	GSR20	7 mm	Each
GA1409	Integral Outhaul Slug Slides	GSR20	9 mm	Each
GA1412	Integral Outhaul Slug Slides	GSR20	12 mm	Each
GA1609	Integral Outhaul Slug Slides	GSR25	9 mm	Each
GA1612	Integral Outhaul Slug Slides	GSR25	12 mm	Each



## Rutgerson Super Ring D-Ring Attachments

These Rutgerson Super Rings with attached D-Rings have a number of great uses for those who think outside the box. They can be used as a means of attaching blocks for single line reefing, or adding extra strong corners to boat covers or canopies.

PART	DESCRIPTION	SIZE	FITS RING	ORDER BY
GA14151	Super Ring D-Ring Attachment	5 mm	GSR20	Each
GA14127	Super Ring D-Ring Attachment	6 mm	GSR20	Each
GA16151	Super Ring D-Ring Attachment	5 mm	GSR25	Each
GA16127	Super Ring D-Ring Attachment	6 mm	GSR25	Each



## Rutgerson Super Ring Spinnaker Swivel Attachments

These attachments integrate a stainless steel spinnaker swivel with a Rutgerson Super Ring providing an excellent solution for traditional or older boats that do not have swivels on their halyards.

PART	DESCRIPTION	FITS RING	ORDER BY
GA1225	Super Ring Spinnaker Swivel Attachment	GSR14	Each
GA1425	Super Ring Spinnaker Swivel Attachment	GSR20	Each
GA1625	Super Ring Spinnaker Swivel Attachment	GSR25	Each



# RUTGERSON

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## Brass Rolled Rim Grommets with Spur Toothed Washers

High-quality grommets feature rolled edges to prevent cutting through fabric. Spur-teeth grip fabric reducing grommet pull-outs. Made of solid brass for a traditional look.\*



PART	DESCRIPTION	SIZE	INNER DIA	QTY/PKG	ORDER BY
GB000	Small Brass Spur Grommet	#000	3/16"	200	Full Pkgs
GB00	Small Brass Spur Grommet	#00	1/4"	200	Full Pkgs
GB0	Brass Spur Grommet	#0	9/32"	1 Gross	Gross
GB1	Brass Spur Grommet	#1	13/32"	1 Gross	Gross
GB2	Brass Spur Grommet	#2	7/16"	1 Gross	Gross
GB2XL	Extra Long Brass Spur Grommet	#2	7/16"	1 Gross	Gross
GB3	Brass Spur Grommet	#3	15/32"	1 Gross	Gross
GB4	Brass Spur Grommet	#4	9/16"	1 Gross	Gross
GB5	Brass Spur Grommet	#5	5/8"	1 Gross	Gross
GB6	Brass Spur Grommet	#6	3/4"	1 Gross	Gross
GB7	Brass Spur Grommet	#7	29/32"	1 Gross	Gross
GB8	Brass Spur Grommet	#8	1 3/32"	1 Gross	Gross

## Nickel Rolled Rim Grommets with Spur Toothed Washers

High-quality grommets feature rolled edges to prevent cutting through fabric. Spur-teeth grip fabric reducing grommet tears and pull-outs. Manufactured from brass with a nickel coating to reduce oxidization, keeping grommets looking newer, longer.\*



PART	DESCRIPTION	SIZE	INNER DIA	QTY/PKG	ORDER BY
GN00	Small Nickel Spur Grommet	#00	1/4"	200	Full Pkgs
GN0	Nickel Spur Grommet	#0	9/32"	1 Gross	Gross
GN1	Nickel Spur Grommet	#1	13/32"	1 Gross	Gross
GN2	Nickel Spur Grommet	#2	7/16"	1 Gross	Gross
GN2XL	Extra Long Nickel Spur Grommet	#2	7/16"	1 Gross	Gross
GN3	Nickel Spur Grommet	#3	15/32"	1 Gross	Gross
GN4	Nickel Spur Grommet	#4	9/16"	1 Gross	Gross
GN5	Nickel Spur Grommet	#5	5/8"	1 Gross	Gross
GN6	Nickel Spur Grommet	#6	3/4"	1 Gross	Gross
GN7	Nickel Spur Grommet	#7	29/32"	1 Gross	Gross
GN8	Nickel Spur Grommet	#8	1 3/32"	1 Gross	Gross

## Generic Spur Grommet Closing Tool Sets

A great alternative when only inserting a small number of spur grommets. These tools get the job done without the investment in professional quality dies.



PART	DESCRIPTION	FITS GROMMET	ORDER BY
GCE0	Spur Grommet Closing Tool Set	Spur #0	Complete Sets
GCE1	Spur Grommet Closing Tool Set	Spur #1	Complete Sets
GCE2	Spur Grommet Closing Tool Set	Spur #2	Complete Sets
GCE3	Spur Grommet Closing Tool Set	Spur #3	Complete Sets
GCE4	Spur Grommet Closing Tool Set	Spur #4	Complete Sets
GCE5	Spur Grommet Closing Tool Set	Spur #5	Complete Sets
GCE6	Spur Grommet Closing Tool Set	Spur #6	Complete Sets
GCE7	Spur Grommet Closing Tool Set	Spur #7	Complete Sets
GCE8	Spur Grommet Closing Tool Set	Spur #8	Complete Sets

\* Bulk packs of 25 or 50 gross available by special order for most sizes, call for details and pricing.



## Stimpson Spur Grommet Closing Tools

These professional quality hand set dies which are made of hardened steel provide the best grommet closing. Choose the complete set or replace only the part that you need.

PART	DESCRIPTION	FITS GROMMET	ORDER BY
GC000	Spur Grommet Closing Tool Set	Spur #000	Complete Sets
GC00	Spur Grommet Closing Tool Set	Spur #00	Complete Sets
GC0	Spur Grommet Closing Tool Set	Spur #0	Complete Sets
GC1	Spur Grommet Closing Tool Set	Spur #1	Complete Sets
GC2	Spur Grommet Closing Tool Set	Spur #2	Complete Sets
GC3	Spur Grommet Closing Tool Set	Spur #3	Complete Sets
GC4	Spur Grommet Closing Tool Set	Spur #4	Complete Sets
GC5	Spur Grommet Closing Tool Set	Spur #5	Complete Sets
GC6	Spur Grommet Closing Tool Set	Spur #6	Complete Sets
GC7	Spur Grommet Closing Tool Set	Spur #7	Complete Sets
GC8	Spur Grommet Closing Tool Set	Spur #8	Complete Sets

GCR0	Grommet Closing Tool – Top Half	Spur #0	Each
GCR1	Grommet Closing Tool – Top Half	Spur #1	Each
GCR2	Grommet Closing Tool – Top Half	Spur #2	Each
GCR3	Grommet Closing Tool – Top Half	Spur #3	Each
GCR4	Grommet Closing Tool – Top Half	Spur #4	Each
GCR5	Grommet Closing Tool – Top Half	Spur #5	Each

GCS0	Grommet Closing Tool – Bottom Insert	Spur #0	Each
GCS1	Grommet Closing Tool – Bottom Insert	Spur #1	Each
GCS2	Grommet Closing Tool – Bottom Insert	Spur #2	Each
GCS3	Grommet Closing Tool – Bottom Insert	Spur #3	Each
GCS4	Grommet Closing Tool – Bottom Insert	Spur #4	Each
GCS5	Grommet Closing Tool – Bottom Insert	Spur #5	Each
GCS6	Grommet Closing Tool – Bottom Insert	Spur #6	Each
GCS7	Grommet Closing Tool – Bottom Insert	Spur #7	Each
GCS8	Grommet Closing Tool – Bottom Insert	Spur #8	Each

Note: larger bottom insert sizes are pressed into old die base by means of a hydraulic press.



TOP HALF



BOTTOM INSERT

### SPUR GROMMET ACCESSORY COMPATIBILITY

Spur Grommet	Size	Closing Tool	Cutter	Hole Size
GB000	#000	GC000	GSH00	3/16"
GB00	#00	GC00	GAHA	1/4"
GB0	#0	GC0	GAHB	5/16"
GB1	#1	GC1	GAHC	3/8"
GB2	#2	GC2	GAHD	7/16"
GB3	#3	GC3	GAHE	1/2"
GB4	#4	GC4	GAHF	5/8"
GB5	#5	GC5	GAHG	3/4"
GB6	#6	GC6	GAHH	7/8"
GB7	#7	GC7	GAHI	1"
GB8	#8	GC8	GAHJ	1 1/8"

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## Brass Grommets with Plain Washers

Use in applications that do not require spurs or rolled rims. Made of solid brass these grommets are simple, basic and cost effective.\*



PART	DESCRIPTION	SIZE	INNER DIA	QTY/PKG	ORDER BY
GW00	Plain Brass Grommet	#00	3/16"	1 Gross	Gross
GW0	Plain Brass Grommet	#0	1/4"	1 Gross	Gross
GW1	Plain Brass Grommet	#1	9/32"	1 Gross	Gross
GW2	Plain Brass Grommet	#2	3/8"	1 Gross	Gross
GW3	Plain Brass Grommet	#3	7/16"	1 Gross	Gross
GW4	Plain Brass Grommet	#4	1/2"	1 Gross	Gross
GW5	Plain Brass Grommet	#5	5/8"	1 Gross	Gross
GW6	Plain Brass Grommet	#6	13/16"	1 Gross	Gross

## Nickel Plated Brass Grommets with Plain Washers

Use in applications that do not require spurs or rolled rims. Made of brass with nickel coating to reduce oxidization keeping grommets looking new longer. Very cost efficient.\*



PART	DESCRIPTION	SIZE	INNER DIA	QTY/PKG	ORDER BY
GWN0	Plain Nickel Grommet	#0	1/4"	1 Gross	Gross
GWN1	Plain Nickel Grommet	#1	9/32"	1 Gross	Gross
GWN2	Plain Nickel Grommet	#2	3/8"	1 Gross	Gross
GWN3	Plain Nickel Grommet	#3	7/16"	1 Gross	Gross
GWN4	Plain Nickel Grommet	#4	1/2"	1 Gross	Gross
GWN5	Plain Nickel Grommet	#5	5/8"	1 Gross	Gross
GWN6	Plain Nickel Grommet	#6	13/16"	1 Gross	Gross

## Generic Plain Grommet Closing Tools

A great alternative when only inserting a small number of plain washer grommets. These tools get the job done without the investment in professional quality dies.



PART	DESCRIPTION	FITS GROMMET	ORDER BY
GCW00	Plain Grommet Closing Tool Set	Plain #00	Complete Sets
GCW0	Plain Grommet Closing Tool Set	Plain #0	Complete Sets
GCW1	Plain Grommet Closing Tool Set	Plain #1	Complete Sets
GCW2	Plain Grommet Closing Tool Set	Plain #2	Complete Sets
GCW3	Plain Grommet Closing Tool Set	Plain #3	Complete Sets
GCW4	Plain Grommet Closing Tool Set	Plain #4	Complete Sets
GCW5	Plain Grommet Closing Tool Set	Plain #5	Complete Sets
GCW6	Plain Grommet Closing Tool Set	Plain #6	Complete Sets

\* Bulk packs of 25 or 50 gross available by special order for most sizes, call for details and pricing.

## PLAIN GROMMET ACCESSORY COMPATIBILITY

Plain Grommet	Size	Closing Tool	Cutter	Hole Size
GW00	#00	GCW00	GAHA	1/4"
GW0	#0	GCW0	GAHB	5/16"
GW1	#1	GCW1	GAHC	3/8"
GW2	#2	GCW2	GAHD	7/16"
GW3	#3	GCW3	GAHE	1/2"
GW4	#4	GCW4	GAHF	5/8"
GW5	#5	GCW5	GAHG	3/4"
GW6	#6	GCW6	GAHH	7/8"

## Stimpson Self-Piercing Grommets

Choose lacquer-finished or nickel-plated brass with sharpened edges. Eliminates the need to pre-cut holes.

PART	MATERIAL	INNER DIA	QTY/PKG	ORDER BY
GB0SP	Brass Self-Piercing Grommet	1/4"	100	Pkg
GB1SP	Brass Self-Piercing Grommet	5/16"	100	Pkg
GB2SP	Brass Self-Piercing Grommet	3/8"	100	Pkg
GN0SP	Nickel Self-Piercing Grommet	1/4"	100	Pkg
GN1SP	Nickel Self-Piercing Grommet	5/16"	100	Pkg
GN2SP	Nickel Self-Piercing Grommet	3/8"	100	Pkg
GN3SP	Nickel Self-Piercing Grommet	7/16"	100	Pkg



## Stimpson Bench Mounted Self Piercing Grommet Press

This professional quality, solid cast-iron press has a long handle to provide leverage for inserting self piercing grommets in one pull. Mounts to bench with 4 bolts (not included).

PART	DESCRIPTION	FITS GROMMET	ORDER BY
T405S	Bench Mounted SP Grommet Press	SP #0-3	Each
T400	SP Grommet Die for Bench Press	SP #0	Each
T401	SP Grommet Die for Bench Press	SP #1	Each
T402	SP Grommet Die for Bench Press	SP #2	Each
T403	SP Grommet Die for Bench Press	SP #3	Each



## Self-Piercing Grommet Press and Snap Dies

Designed to be used with Press-N-Snap Tool (pg. 125). Excellent for installing self-piercing grommets on the run. Each die set features rubber retainers that hold grommet components in the dies until the handle is squeezed, freeing up an extra hand.

PART	DESCRIPTION	FITS GROMMET	ORDER BY
TPNS6	SP Grommet Press and Snap Die	SP #0	Sets
TPNS7	SP Grommet Press and Snap Die	SP #1	Sets
TPNS8	SP Grommet Press and Snap Die	SP #2	Sets



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## Webbing-Slot Arch Hole Cutter

These hole punches are specially designed for webbing-slots in headboards and clewboards. A real time saver!



PART	DESCRIPTION	CUT SLOT SIZE	ORDER BY
GAHWEB1	Webbing-Slot Arch Hole Cutter	7/8" x 1/4"	Each
GAHWEB2	Webbing-Slot Arch Hole Cutter	11/16" x 3/16"	Each

## Arch Hole Cutters

High quality professional grade steel. Arch style cutters evenly distribute pounding pressure on blades for an even cut every time. Large opening at top allows for easy cleaning. The metric units are a natural choice for use with Rutgerson Super Rings (pg. 75). Use with Black Vinyl Cutting Pad (pg. 83) to prolong blade sharpness.



PART	DESCRIPTION	HOLE DIA	ORDER BY
GAHA	SAE Arch Hole Cutter	1/4"	Each
GAHB	SAE Arch Hole Cutter	5/16"	Each
GAHC	SAE Arch Hole Cutter	3/8"	Each
GAHD	SAE Arch Hole Cutter	7/16"	Each
GAHE	SAE Arch Hole Cutter	1/2"	Each
GAHF	SAE Arch Hole Cutter	5/8"	Each
GAHG	SAE Arch Hole Cutter	3/4"	Each
GAHH	SAE Arch Hole Cutter	7/8"	Each
GAHO	SAE Arch Hole Cutter	15/16"	Each
GAHI	SAE Arch Hole Cutter	1"	Each
GAHJ	SAE Arch Hole Cutter	1 1/8"	Each
GAHK	SAE Arch Hole Cutter	1 1/4"	Each
GAHL	SAE Arch Hole Cutter	1 3/8"	Each
GAHM	SAE Arch Hole Cutter	1 1/2"	Each
GAHN	SAE Arch Hole Cutter	1 3/4"	Each
GAH10	Metric Arch Hole Cutter	10 mm	Each
GAH12	Metric Arch Hole Cutter	12 mm	Each
GAH14	Metric Arch Hole Cutter	14 mm	Each
GAH20	Metric Arch Hole Cutter	20 mm	Each
GAH25	Metric Arch Hole Cutter	25 mm	Each
GAH35	Metric Arch Hole Cutter	35 mm	Each
GAH45	Metric Arch Hole Cutter	45 mm	Each
GAH55	Metric Arch Hole Cutter	55 mm	Each

## Side Hole Cutters

High quality professional grade steel. Great for cutting holes for grommets, rings and rivets. Use with Black Vinyl Cutting Pad (below) to prolong blade sharpness.

PART	DESCRIPTION	FITS GROMMET	HOLE DIA	ORDER BY
GSH000	Side Hole Cutter	#000	1/8"	Each
GSH00	Side Hole Cutter	#00	3/16"	Each
GSH0A	Side Hole Cutter	#0	1/4"	Each
GSH1A	Side Hole Cutter	#1	9/32"	Each
GSH2A	Side Hole Cutter	#2	3/8"	Each
GSH3A	Side Hole Cutter	#3	7/16"	Each
GSH4A	Side Hole Cutter	#4	1/2"	Each
GSH5A	Side Hole Cutter	#5	5/8"	Each
GSH6A	Side Hole Cutter	#6	3/4"	Each
GSH7A	Side Hole Cutter	#7	7/8"	Each
GSH8A	Side Hole Cutter	#8	1"	Each



## Revolving Tube Punch Tool and Replacement Parts

Perfect for punching small holes for rivets and snap parts on the go. Tool is fully portable and each tube-punch is individually replaceable.

PART	DESCRIPTION	TUBE SIZES	ORDER BY
GPUN	Punch Tool w/ DriveTubes #1-6	See Below	Each
GPURA	Replacement Anvil	--	Each
GPUR0	Replacement Tube #0	5/64"	Each
GPUR1	Replacement Tube #1	3/32"	Each
GPUR2	Replacement Tube #2	7/64"	Each
GPUR3	Replacement Tube #3	1/8"	Each
GPUR4	Replacement Tube #4	5/32"	Each
GPUR5	Replacement Tube #5	11/64"	Each
GPUR6	Replacement Tube #6	3/16"	Each



## Black Vinyl Cutting Pad

Friendliest companion for any Side Hole or Arch Hole Cutter. These black vinyl pads not only help prolong the life cutting blades, they also help insure a clear clean cut with fewer jagged edges.

PART	DESCRIPTION	SIZE	ORDER BY
GPAD	Black Vinyl Cutting Pad	10" x 10" x 3/8"	Each



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## Singer MR Sewing Machine Needles

Challenge is pleased to be the exclusive distributor to sailmakers for Singer MR Sewing Machine Needles. Sailmakers who have used MR's have preferred them over conventional needles when sewing Dacron, Kevlar, Mylar, Canvas materials or even Nylon for the following reasons:

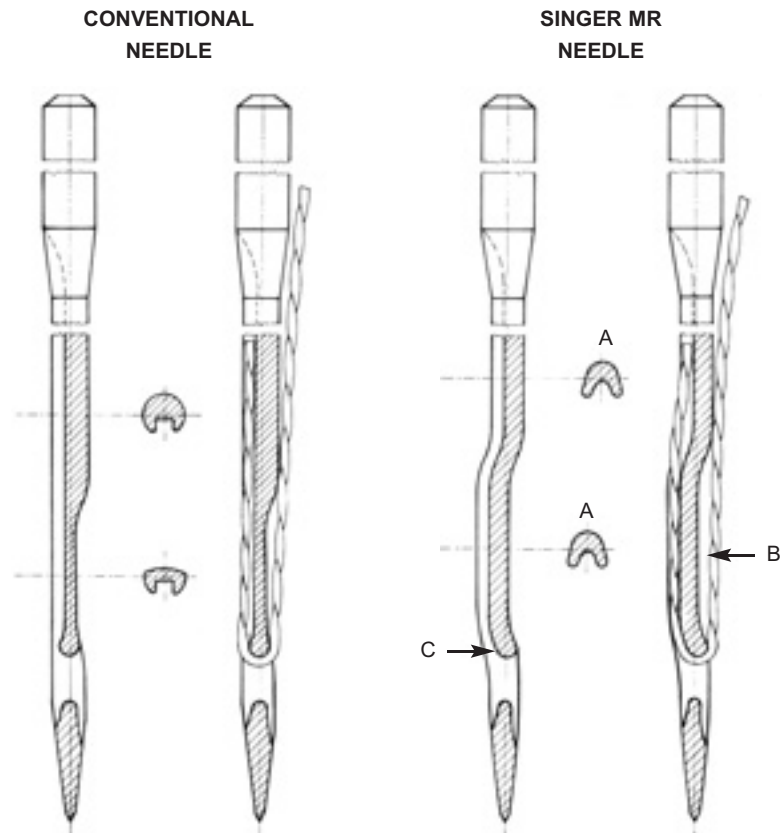
- **Less needle breakage** – Buckling strength is increased by 90% on average.
- **Skipping is reduced** – Clearance above the eye is longer and deeper; the needle groove is continued at full depth all the way to the eye, protecting the thread from pinching and thus permitting a better loop formation. The needle is also stiffer, reducing fluttering and providing for better loop seizure.
- **Decreased needle inventory** – Simplified needle ordering through interchangeability of various sizes and types of needles.
- **Improved seam appearance** – Smaller diameter needle can replace a larger ordinary needle, making penetrations that are less visible.

### DESIGN FEATURES

**A** – Same needle cross-section in both the blade and CAE area increases buckling strength by an average of 90%.

**B** – Longer and deeper CAE creates more free space for the hook point to pick up a thread loop.

**C** – Deep thread groove continued through to eye area offers better thread protection and improves thread handling.



## Conventional Metric (Singer) Needle Sizes Replaced by MR Sizes

Sewing Machine	Needle System	Catalog Number	65 – 70	75 – 80	85 – 90	105 – 110	120 – 130	140 – 160	180 – 200
			(9 – 10)	(11 – 12)	(13 – 14)	(17 – 18)	(19 – 21)	(22 – 23)	(24 – 25)
			MR 2.0 Part	MR 2.5 Part	MR 3.0 Part	MR 4.0 Part	MR 5.0 Part	MR 6.0 Part	MR 7.0 Part
Adler 67	134	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	—	—
Adler 98	134-35	7225-01	—	—	TN72253	TN72254	TN72255	TN72256	—
Adler 167	134	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Bernina 217	—	—	TN15152	—	TN15153	TN15154	TN15155	TN15156	—
Consew 99	16x95	1515-01	TN15152	—	TN15153	TN15154	TN15155	TN15156	—
Consew 272	135x5	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Consew 206RB	—	—	TN33552	TN335525	TN33553	TN33554	TN33555	TN33556	—
Juki LU562	DP/135x17	3355-01	TN33552	TN335525	TN33553	TN33554	TN33555	TN33556	TN33557
Juki LH512	DP/135x5	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Pfaff 145	134	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Pfaff 545	134	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Singer 107	135x5	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Singer 111W100	135x5	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Singer 111W112	135x17	3355-01	TN33552	TN335525	TN33553	TN33554	TN33555	TN33556	TN33557
Singer 167	135x5	1955-0	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Singer 211G151	135x7	1955-01	TN19552	TN195525	TN19553	TN19554	TN19555	TN19556	—
Singer 211G151	135x17	3355-01	TN33552	TN335525	TN33553	TN33554	TN33555	TN33556	TN33557
Singer 457	135x53	1906-01	TN19062	—	TN19063	TN19064	—	—	—

## W. Smith & Son Reduced Edge Sailmakers' Needles



These hand-sewing needles are made by hand to highest quality standards. Their unique tri-angular shaped reduced edge helps the needle cut its way through the fabric with ease while the special rounded thread eye is designed not to cut the twine.

PART	DESCRIPTION	SIZE	LENGTH	QTY/PKG	ORDER BY
TNE12	Reduced Edge Needle	#12	3 1/4"	25	Pkg
TNE13	Reduced Edge Needle	#13	3"	25	Pkg
TNE14	Reduced Edge Needle	#14	2 3/4"	25	Pkg
TNE15	Reduced Edge Needle	#15	2 1/2"	25	Pkg
TNE16	Reduced Edge Needle	#16	2 3/8"	25	Pkg
TNE17	Reduced Edge Needle	#17	2 5/8"	25	Pkg
TNE18	Reduced Edge Needle	#18	2 1/4"	25	Pkg
TNE19	Reduced Edge Needle	#19	1 15/16"	25	Pkg
TNEA	Reduced Edge Needle	#13 – 18	Assorted	5	Pkg
TNET	Reduced Edge Needle	#14 – 18	Assorted	20	Tubes

## Swivel Bench Hooks



A more traditional sailmaking tool, these hooks still are useful for holding and tensioning fabric or rope while being hand sewn.

PART	DESCRIPTION	SIZE	ORDER BY
TBEN	Swivel Bench Hook	One Size	Each

## Sailmakers' Palms



High quality handcrafted palms. **Seaming Palms** feature a fine thimble pattern for small to medium sized needles. **Roping Palms** feature a large thimble pattern for medium to large needles and raised leather band around the thumb-hole to wrap thread around thumb for pulling and tensioning. **Adjustable Palms** are lighter duty featuring a seaming thimble and semi-raised thumb hole which can be used for roping in a pinch. Best quality palms are professional grade and will last a life-time, while adjustable palms are inexpensive yet fully functional. Perfect for every sailmaker's repair bag.

PART	PALM TYPE	HAND	ORDER BY
TPASR	Best Quality Seaming Palm	Right	Each
TPASL	Best Quality Seaming Palm	Left	Each
TPARR	Best Quality Roping Palm	Right	Each
TPARL	Best Quality Roping Palm	Left	Each
TPAAR	Adjustable Palm	Right	Each
TPAAL	Adjustable Palm	Left	Each

## Sail Repair Kit



The perfect start to any sail or canvas repair kit. Kit features a basic palm, assortment of five needles, and spool of round pre-waxed twine.

PART	DESCRIPTION	ORDER BY
TRK	Sewing Palm, Assorted Needles, Thread	Sets



## Knee Pads

Rubber knee pads with elastic straps, hook and loop fastened.

PART	DESCRIPTION	SIZE	ORDER BY
TKP	Knee Pads	One Size	Sets



## Cloth Clamps

Quality metal spring loaded clamps with rubber tips. Perfect for holding cloth together in preparation for running through sewing machine. Almost like an extra set of hands.

PART	DESCRIPTION	JAW OPENS	LENGTH	ORDER BY
TCC1	Cloth Clamps	1 3/8"	4 1/8"	Each
TCC2	Cloth Clamps	2 1/8"	6 1/4"	Each
TCC3	Cloth Clamps	3 5/8"	9 1/8"	Each



## Rawhide Mallets

Weighted mallets are the best tool for hole cutting and grommet setting. Mallets feature bronze weighted head, replaceable wooden handle and rawhide hitting surface.

PART	DESCRIPTION	SIZE	WEIGHT	ORDER BY
TM0	Rawhide Mallet	#0	1 1/2 lbs	Each
TM1	Rawhide Mallet	#1	2 1/2 lbs	Each
TM2	Rawhide Mallet	#2	4 1/2 lbs	Each
TM3	Rawhide Mallet	#3	6 lbs	Each
TM4	Rawhide Mallet	#4	7 1/2 lbs	Each
TMH	Replacement Mallet Handle	#0 - 4	--	Each
TM0R	Replacement Rawhide Head	#0	--	Each
TM1R	Replacement Rawhide Head	#1	--	Each
TM2R	Replacement Rawhide Head	#2	--	Each
TM3R	Replacement Rawhide Head	#3	--	Each
TM4R	Replacement Rawhide Head	#4	--	Each



## Rawhide Hammer

Versatile tool. Can be used for cutting hole with punches, setting grommets, pounding line to loosen it or any other application that requires a non-metal pounding surface.

PART	DESCRIPTION	FACE DIA	WEIGHT	ORDER BY
THAM2	Rawhide Hammer	1 3/4"	2 3/4 lbs	Each
THAM2R	Replacement Head	1 3/4"	--	Sets



## Best Quality Deluxe Seam Rippers

Take out stitches quickly with these seam rippers. Large handles provide a good grip.

PART	DESCRIPTION	QTY/PKG	ORDER BY
TSEA1	Deluxe Seam Ripper	10	Each



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## Utility Knife with Safety Guard



Multipurpose blunt-tip utility knife. Especially useful for tapering rope ends for splicing.

PART	DESCRIPTION	ORDER BY
TKN	Utility Knife w/Safety Guard	Each

## Mundial Shears – Finest Quality Ultra-Sharp Knife-Edge

Challenge is proud to carry a large assortment of Mundial Industrial Forged shears. Many of these industrial-quality shears feature Mundial's Stay-Set pivot assembly, which is uniquely engineered to allow the ride to be adjusted to fit one's own ergonomic needs. Once it's set, it stays set...for comfortable cutting power on the heaviest of sailcloth, laminates or canvas. All of these hot drop-forged shears are fully nickel plated and then ground to an extremely sharp knife-edge angle. This, combined with durable black enameled handles, make Mundial shears the best choice for use in the demanding sailmaking industry.



PART	DESCRIPTION	SIZE	FINISH	MUNDIAL #	ORDER BY
T4557	Bent Trimmers	7"	Nickel-Plated	270-7	Each
T4558	Bent Trimmers	8"	Nickel-Plated	270-8	Each
T4558L	Bent Trimmers Left-Handed	8"	Nickel-Plated	271-8	Each
T4559	Stay-Set™ Heavy Duty Bent Trimmers	9"	Nickel-Plated	490-9	Each
T40010	Stay-Set™ Bent Trimmers	10"	Nickel-Plated	498-10	Each
T40010L	Stay-Set™ Bent Trimmers True Left Hand	10"	Nickel-Plated	493-10	Each
T40012	Stay-Set™ Bent Trimmers	12"	Nickel-Plated	498-12	Each
T406	Dressmaker Shear	8"	Nickel-Plated	272-8	Each

## Mundial Leveraged Long Handled Shears

Long handle and shorter blade for better leverage. Great for cutting heavy materials.

PART	DESCRIPTION	SIZE	FINISH	MUNDIAL #	ORDER BY
T3568	Leveraged Sheers	8"	Nickle-Plated	314-8	Each



## Mundial Premium Lightweight Dressmaker Shears

Comfortable plastic handle with shorter blades than our other shears for detailed work or lighter cloth.

PART	DESCRIPTION	SIZE	FINISH	MUNDIAL #	ORDER BY
T690	Dressmaker Shears	9"	Stainless/Blk Grips	BP690	Each



## Mundial Premium Lightweight Thread Clips

Economical with plastic handles and replaceable metal blades.

PART	DESCRIPTION	SIZE	FINISH	MUNDIAL #	ORDER BY
T601	Thread Clips	One	Stainless/Blk Grips	601	Each
T301RB	Replacement Blades	One	--	--	Each



## Mundial Knife-Edge Thread Clips

Durable and rugged. A worth-while investment for your high use machines.

PART	DESCRIPTION	SIZE	FINISH	MUNDIAL #	ORDER BY
T301C	Thread Clips	One	Brushed Chrome	801	Each



## Mundial "Nippers" Small Shears

More versatile than straight thread clips. Use on thread and small amounts of light fabric.

PART	DESCRIPTION	SIZE	FINISH	MUNDIAL #	ORDER BY
T668	Nippers	4 1/2"	Stainless/Blk Grips	668	Each



## Wheel Cutters

A popular alternative to shears for cutting a variety of fabrics quickly and accurately. These cutters work best when backed by a vinyl cutting pad available at better office or art supply stores.

PART	TYPE	LENGTH	BLADE DIA	QTY/PKG	ORDER BY
TW1	ST 800 Cutter	7"	1 1/6"	1	Each
TW2	ST 810 Cutter	7 5/8"	1 3/4"	1	Each
TWR1	ST800 Blades	--	1 1/16"	2	Pkg
TWR2	ST810 Blades	--	1 3/4"	1	Pkg



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## Weller Hot Knife Handle



This popular hot knife features a red handle with black grip. Choose from a variety of tip options listed below (hot knife and tips sold separately).

PART	DESCRIPTION	SIZE	ORDER BY
THKUHA	Hot Knife Handle	One Size	Each

## Weller Hot Knife Heating Element



A good choice for high use applications where tips must remain sharp. Dull tips are easily replaced with THKU100 (listed below) to keep your work on point.

PART	DESCRIPTION	SIZE	ORDER BY
THKUHP	HP Heating Element	#37	Each

*Please Note: The heating element in Weller Hot Knife equipment is replaceable, consumable and fragile (like a light bulb it will burn out if dropped or subjected to shock), therefore, they are not generally guaranteed by the manufacturer beyond initial operation.*

## Weller Hot Knife Tips



Pick the right tip for the job – Nyla-cut tips integrate heating element and flat blade tip in one unit. Basting tips offer very detailed control for cutting more elaborate designs. Bronze tips are a great option when tips must be replaced often to maintain sharpness.

PART	DESCRIPTION	SIZE	ORDER BY
THKUN	Nyla Cut Tip (Complete)	#65	Each
THKUB	Basting Tip (Complete)	#33	Each
THKU100	Bronze Tip	#100	Each

## Weller Hot Knife Holder



Solid metal cage-holder provides a safe way to keep your hot knife away from your work when not in immediate use.

PART	DESCRIPTION	SIZE	ORDER BY
THKUHH	Hot Knife Holder	One Size	Each

## Hot Knife Heat Control Units



Unit adjusts heat level of hot tools in order to prolong life of tips.

PART	DESCRIPTION	SIZE	ORDER BY
THKC	Hot Knife Heat Control Unit	One Size	Each

## Hot Tool Heavy-Duty Hot Knife

60 watt – heats to 1050 degrees Fahrenheit.

PART	DESCRIPTION	SIZE	ORDER BY
THK60	Heavy Duty Hot Knife (w/o tip)	One Size	Each
THK60T	Heavy Duty Hot Knife Tip	One Size	Each



## Portasol Refillable Butane Hot Knife

Newly redesigned, this portable hot knife is self-igniting and can achieve temperatures of up to 1076 degrees Fahrenheit. Kit comes with hot knife, soldering, blow-torch, and hot air tips along with soldering flux cup/holder, and hard plastic storage case.

PART	DESCRIPTION	SIZE	ORDER BY
THP1K	Butane Hot Knife Kit	One Size	Each
THP1	Butane Hot Knife (w/o tip)	One Size	Each
THT7	Butane Hot Knife Tip	One Size	Each



## Engel Heat Cutter and Equipment

This quality German made hot knife is the perfect tool for cutting and sealing synthetic fabrics, ropes and webbing. Durable nylon body is highly impact resistant and heavy-duty transformer heats up fast. Designed to last for years. Available in 110V or 220V versions, draws 70 watts and reaches peak temperature of 1,100 degrees Fahrenheit.

PART	DESCRIPTION	VOLTS	ORDER BY
THKEC1	European Heat Cutter	220V	Each
THKEC2	US Heat Cutter (heavy duty grey nylon)	110V	Each
THKEB	Blade Only	--	Each
THKES	HSO Blade (for precise cutting)	--	Each
THKEF	Cutting Foot	--	Each



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## Sailmakers' Staplers



Pliers-style staplers are a handy timesaver. No need to have the floor or other surface to push against while setting staples. Just squeeze and go. Perfect for stapling tapes, binding and seams. Long-arm stapler extends your reach for installing sacrificial covers and the like. Raised Anvil stapler is ideal for stapling bolt rope and luff tapes by easily reaching over the raised portion of the tape.

PART	DESCRIPTION	STAPLE DEPTH	STAPLE WIDTH	USES STAPLE	ORDER BY
TST3	P3 Staple Gun	1/4"	3/8"	TSP14	Each
TSTPL4	Raised Anvil Plier Stapler	1/4"	7/16"	TSPL414	Each
TST6C	P6C Staple Gun	1/4"	7/16"	TSP1914	Each
		or 3/8"		or TSP1938	
TSTL	B5-185 Long Arm (18")	1/4"	1/2"	TSP45	Each

## Staples



Specific staples for Sailmakers' Staplers (listed above).

PART	DESCRIPTION	STAPLE DEPTH	STAPLE WIDTH	USE WITH	QTY/ PKG	PKG/ CASE	ORDER BY
TSP14	SP19 Staples	1/4"	3/8"	TST3	5000	40	Pkg
TSP45	SBS19 Staples	1/4"	1/2"	Old TSTL	5000	25	Pkg
TSP1914	SPC5019 Staples	1/4"	7/16"	TST6C	5000	20	Pkg
TSP1938	SPC5019 Staples	3/8"	7/16"	TST6C	5000	20	Pkg
TSPL414	P4A Staples	1/4"	7/16"	TSTPL4	5000	--	Pkg
TSP448	44/8 Staples	5/16"	1/2"	TSTL	5000	--	Pkg

## Lever-Style Staple Remover



Lever-style staple removers work better and remove staples more cleanly than old claw-style staple removers. Regular style works well in most applications. Deluxe model features larger handle for less hand fatigue.

PART	DESCRIPTION	QTY/PKG	ORDER BY
TSR	Lever-Style Staple Remover	10	Each
TSR1	Deluxe Lever-Style Staple Remover	10	Each

## Stabbing Awls



Durable wooden handle and hardened steel points make these awls an excellent tool for a variety of purposes. Points are replaceable and inter-changeable.

PART	DESCRIPTION	QTY/PKG	ORDER BY
TAWLS	Stabbing Awl with Wrench	1	Each
TAWL2	2 1/2" Stabbing Awl Point	12	Pkg
TAWL3	3" Stabbing Awl Point	12	Pkg

## Yellow Scratch Awls



Hard plastic handles with hardened steel points. Great for picking sails, battens and heavier fabrics to floors.

PART	DESCRIPTION	LENGTH	QTY/PKG	ORDER BY
TAWL1	#1 Yellow Scratch Awl	2 1/2"	12	Each

## Mushroom Pushpins

Special mushroom shaped head makes it easy to push pins in with greater force. The larger gripping surface makes them easier to remove. Reinforced crown holds special hardened steel pin.

PART	DESCRIPTION	FINISH	QTY/PKG	ORDER BY
TPIM	Mushroom Pushpin	High Visibility Red	100	Pkg
TPIN	Mushroom Pushpin	Black	100	Pkg



## Moore Pushpins

A basic reliable pushpin. Aluminum heads hold pin better than plastic and won't shatter if they require an extra tap with a hammer or tool.

PART	DESCRIPTION	FINISH	SHAFT	QTY/PKG	ORDER BY
TPIA	Pushpin	Aluminum	5/8"	100	Pkg



## Sailmakers' Measuring Tapes

Steel blade for accurate measurement. Features both foot/inches and metric scales.

PART	DESCRIPTION	BLADE LENGTH	BLADE WIDTH	UNITS	END FITTING	ORDER BY
TM43	Measuring Tape	26' (8 m)	1"	Top: ft, in, 32nds Btm: m, cm, mm	3 Rivet Endhook	Each
TM65	Measuring Tape	100' (30 m)	3/8"	Top: ft, in, 8ths Btm: m, cm, mm	Folding Endhook	Each



## Replacement Measuring Tape Blades

PART	DESCRIPTION	LENGTH	WIDTH	FITS UNIT	ORDER BY
TMR65	Replacement Steel Blade	100' (30 m)	3/8"	TM65	Each



## Aluminum Rules

Sturdy solid aluminum rulers. Six foot rule graduated in inches only. Meter rule is graduated in both centimeters and inches.

PART	DESCRIPTION	LENGTH	WIDTH	UNITS	ORDER BY
TMS	Aluminum Rule	1 m	1 1/4"	in / cm	Each
TMR	Aluminum Rule	6'	2"	in	Each



## Computer Plotter Pens

Special pressure-filled pens provide even and consistent ink delivery to a variety of fabrics even when used vertically or up-side down. Same pens used by astronauts in weightlessness.

PART	DESCRIPTION	QTY/PKG	ORDER BY
TPP	Computer Plotter Pressure Pen Refill	12	Each



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## Pattern Material



Rigid yet easy to cut, this heavy-duty opaque mylar is perfect for making templates for a wide range of uses.

PART	DESCRIPTION	THICKNESS	WIDTH	YD/ ROLL	ORDER BY
YPAT	Pattern Material	7.5 mil	54"	50	Rolls
YPAT60	Pattern Material	7.5 mil	60"	50	Rolls

## Pattern Marking Tape



Thick and heavy duty, this tape is the right product for marking important details on your patterns or templates.

PART	DESCRIPTION	WIDTH	YD/ ROLL	ROLLS/ CASE	ORDER BY
YPATP3	Pattern Marking Tape	3/4"	60	48	Rolls

## Pattern Joining Tape



This tape is formulated to hold to surface of pattern mylar and not to slip or shift.

PART	DESCRIPTION	WIDTH	YD/ ROLL	ROLLS/ CASE	ORDER BY
YPATJJ3	Pattern Joining Tape	3/4"	72	48	Rolls

## Flexiclear Rolls



High visibility roll form vinyl window material. Individually packaged in their own dispenser box – suspended to protect roll from damage. 30 and 40 mil thickness available in roll format as well by special order. Please call for details and pricing.

PART	DESCRIPTION	THICKNESS	WIDTH	YD/ ROLL	ORDER BY
YFL16	Flexiclear Roll	.016	54"	25	Rolls
YFL19	Flexiclear Roll	.019	54"	20	Rolls

## Flexiclear Sheets



Highest visibility vinyl window material.

PART	DESCRIPTION	THICKNESS	SIZE	SHEETS/ DRUM	ORDER BY
YFS1	Flexiclear Sheet	.020	24" x 54"	100	Sheets
YFS2	Flexiclear Sheet	.020	29" x 68"	60	Sheets
YFS3	Flexiclear Sheet	.030	54" x 110"	15	Sheets
YFS4	Flexiclear Sheet	.040	24" x 54"	35	Sheets
YFS5	Flexiclear Sheet	.040	29" x 62"	35	Sheets
YFS6	Flexiclear Sheet	.040	54" x 110"	10	Sheets



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## Strataglass

Strataglass is a premium, flexible vinyl sheet engineered to resist both the damaging effects from the sun's rays and scratching from handling. Strata's unique scratch resistant coating prevents fine line scratches caused by washing, drying, rolling and abrasion from roll-up straps. The coating blocks these elements from etching into the surface of the vinyl allowing windows to remain clearer longer, so you won't need to replace curtains as often. Larger sheets make it less expensive per foot.



PART	DESCRIPTION	THICKNESS (MIL)	COLOR	SIZE (IN)	QTY/ PKG	ORDER BY
YFG30	Stataglass Sheet	30	Clear	54" x 111"	5	Sheet
YFG	Stataglass Sheet	40	Clear	54" x 111"	5	Sheet
YFG60	Stataglass Sheet	60	Clear	54" x 111"	3	Sheet
YFGS40	Stataglass Sheet	40	Lt. Smoke	54" x 111"	5	Sheet
YFGDS40	Stataglass Sheet	40	Dk. Smoke	54" x 111"	5	Sheet

### REGULAR 40 MIL VINYL

- Distorts View
- Scratches
- Yellows
- Short Life Expectancy



### STRATAGLASS

- Optically Clear
- Scratch Resistant
- Resists Yellowing
- Longer Life Expectancy

## Crystal Clear 20/20

From the makers of Strataglass, Crystal Clear 20/20 is made from the same high-quality vinyl stock as Strataglass. While Crystal Clear 20/20 does not have UV and scratch-resistant coatings like Strataglass, it does share the same optically clear properties for superb visibility at a more economical price. Same large-size sheets as Strataglass.

PART	DESCRIPTION	COLOR	THICKNESS (MIL)	SIZE	QTY/ PKG	ORDER BY
YFCC30	Crystal Clear 20/20	Clear	30	54" x 111"	5	Sheet
YFCC40	Crystal Clear 20/20	Clear	40	54" x 111"	5	Sheet

### Crystal Clear 20/20

Clearly the Transparent Choice

## Makrolon Polycarbonate Sheets

Makrolon Polycarbonate clear plastic sheets have AR2 abrasion resistant coating to prevent scratching and marring over the life of a canvas product as well as UV resistance to prevent yellowing and weakening over years of exposure to sunlight. Polycarbonate is amongst the toughest of plastics available, having much greater strength characteristics than either Acrylic or Vinyl.

PART	DESCRIPTION	COLOR	THICKNESS (MIL)	SIZE	QTY/ PKG	ORDER BY
YFPC40	Makrolon w/AR2 Coating	Clear	40	48" x 96"	5	Sheet
YFPC60	Makrolon w/AR2 Coating	Clear	60	48" x 96"	5	Sheet

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## Sea-Flex Window Vinyl

Marine-grade window in clear and smoke tint.



PART	DESCRIPTION	COLOR	THICKNESS (MIL)	SIZE	QTY/ PKG	ORDER BY
YFCF30	Sea-Flex Vinyl	Clear	30	50" x 100"	15	Sheet
YFCF40	Sea-Flex Vinyl	Clear	40	50" x 100"	10	Sheet

## Mono Film



Optically clear polyester film for windsurfers.

PART	DESCRIPTION	COLOR	THICKNESS (MIL)	WIDTH	YD/ ROLL	ORDER BY
YMW	Mono Film	Clear	4.0	54"	50	Yards
YMW5	Mono Film	Clear	5.0	54"	50	Yards
YMW7	Mono Film	Clear	7.0	54"	50	Yards

## Leather

Very soft and pliable. Easy to form around corners. Sold by whole hide, priced by square foot.



PART	DESCRIPTION	AVG SQ FT/ HIDE	ORDER BY
YLEAP	Heavy Chrome Pearl Leather	20	Sq Ft
YLEAS	Special Thin Pearl Leather	20	Sq Ft

## IMAR Clear Vinyl Cleaner and Polish

IMAR produces the only cleaning and polishing products endorsed by Strataglass. The Protective Cleaner is safe to use daily to avoid age induced brittleness and also to protect the scratch resistant coating on Strataglass. The Protective Polish cleans and restores Strataglass to like-new clarity, and can be used before the Protective Cleaner. These products work equally as well on any clear vinyl product that Challenge carries.



PART	DESCRIPTION	VOLUME	CONTAINER	QTY/ CASE	ORDER BY
LSTRATC	Strataglass Cleaner	16 oz	Spray	12	Each
LSTRATC1	Strataglass Cleaner	1 gallon	Gallon	4	Each
LSTRATP	Strataglass Polish	16 oz	Spray	12	Each

## Plastiseam

Liquid plastic to protect seams from sun, water and abrasion.



PART	DESCRIPTION	VOLUME	CONTAINER	QTY/ CASE	ORDER BY
LPS12	Plastiseam	12 oz	Can	24	Each

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## Aqua-Tite® Green

Aqua-Tite has been reformulated to meet all known VOC requirements in all countries. It still retains the premium, heavy-duty water-repellency and stain protection of the old Aqua-Tite, but now is the most environmentally friendly product available of all choices on the market. Can be used on cotton and synthetic fabrics and also flame resistant fabrics without affecting properties. May impart a slightly darker, richer tone on some lighter color fabrics.



PART	DESCRIPTION	VOLUME	CONTAINER	COVERAGE	ORDER BY
LAQUA4	Aqua-Tite	1 Quart	Spray	125 – 175 sq ft	Each
LAQUA1	Aqua-Tite	1 Gallon	Jug	500 – 700 sq ft	Each

## AquaBlock

Developed to protect and extend the life of marine fabrics including acrylics, Sunbrella, nylon, cotton, canvas, polyester, vinyl and leather. Helps prevent damage from moisture, mildew, oil and grease, bird droppings and airborne pollutants. Perfect for covers, bimini tops, dodgers, vinyl seats, cushions, carpets, tents, awnings and patio furniture.



PART	DESCRIPTION	VOLUME	CONTAINER	ORDER BY
LMCT90-22	AquaBlock	22 oz	Spray	Each
LMCT90	AquaBlock	1 Gallon	Jug	Each

## BioShield AM 500™

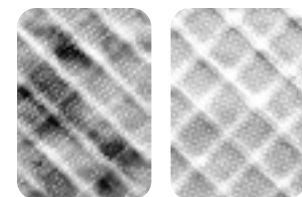
This anti-mold and mildew protectant molecularly bonds to the surface of sails and prevents the growth and micro-organisms that cause mold, mildew, stains and odors. Can be on most canvas, vinyl, plastic upholstery fabrics and indoor/outdoor carpet.



PART	DESCRIPTION	VOLUME	CONTAINER	ORDER BY
LAM500	BioShield AM 500	1 Gallon	Bottle	Each

## Sail Cleaner and Mildew Remover

Dry powder chemical formula developed exclusively for cleaning sails. Unlike detergents, CS-530 was designed especially for mildew and algae stains, and especially for Laminates with mildew stain under the taffeta. Unlike chlorine bleach, CS-530 is safe and effective for all types of sail material, including Dacron, Nylon, Kevlar, Acrylics and colored sails. Warning: avoid using on leather and leather trim.



PART	DESCRIPTION	VOLUME	CONTAINER	ORDER BY
LCS530X-40	Mildew Cleaner CS-530	40 lb	Box	Each

### DOSAGE GUIDANCE

Gallons	1	20	40	80	100	120	160
Dacron, Nylon, Acrylics, etc.	1 oz	20 oz	40 oz	--	--	--	--
	--	3 c	5 c	10 c	12 c	15 c	20 c
	--	2 lb	3 lb	5 lb	6 lb	7.5 lb	10 lb
Laminates	3 oz	60 oz	120 oz	--	--	--	--
	--	8 c	15 c	30 c	38 c	45 c	60 c
	--	4 lb	7 lb	15 lb	18 lb	22 lb	30 lb

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## Dactape

Heat slit polyester sailcloth tape. Available in "natural" color. Please order by yard. Dactape works well with the Rutgeron Super Tape Folder (pg 100). Pre-folded Dactapes are hard creased and rewound on cores or loose in box, please specify.



PART	WEIGHT	WIDTH	AVAILABLE FOLDED	PART	WEIGHT	WIDTH	AVAILABLE FOLDED
<b>4 oz Dactapes</b>				<b>5 oz Dactapes</b>			
P41	4 oz	1"	No	P51	5 oz	1"	No
P41H	4 oz	1 1/2"	No	P51H	5 oz	1 1/2"	No
P42	4 oz	2"	Yes	P52	5 oz	2"	Yes
P42Q	4 oz	2 1/4"	No	P52Q	5 oz	2 1/4"	No
P42H	4 oz	2 1/2"	Yes	P52H	5 oz	2 1/2"	Yes
P43	4 oz	3"	Yes	P53	5 oz	3"	Yes
P43H	4 oz	3 1/2"	No	P53H	5 oz	3 1/2"	No
P44	4 oz	4"	Yes	P54	5 oz	4"	Yes
P44H	4 oz	4 1/2"	No	P54H	5 oz	4 1/2"	No
P45	4 oz	5"	No	P55	5 oz	5"	Yes
P45H	4 oz	5 1/2"	No	--	--	--	--
P46	4 oz	6"	No	P56	5 oz	6"	Yes
				P59	5 oz	9"	No
<b>6 oz Dactapes</b>				<b>7 oz Dactapes</b>			
P61	6 oz	1"	No	--	--	--	--
P61H	6 oz	1 1/2"	No	P71H	7 oz	1 1/2"	No
P62	6 oz	2"	Yes	P72	7 oz	2"	Yes
P62Q	6 oz	2 1/4"	No	P72Q	7 oz	2 1/4"	No
P62H	6 oz	2 1/2"	Yes	P72H	7 oz	2 1/2"	Yes
P63	6 oz	3"	Yes	P73	7 oz	3"	Yes
P63H	6 oz	3 1/2"	No	P73H	7 oz	3 1/2"	No
P64	6 oz	4"	Yes	P74	7 oz	4"	Yes
P64H	6 oz	4 1/2"	No	P74H	7 oz	4 1/2"	No
P64R	6 oz	4 3/4"	No	--	--	--	--
P65	6 oz	5"	Yes	P75	7 oz	5"	Yes
P66	6 oz	6"	Yes	P76	7 oz	6"	Yes
<b>8 oz Dactapes</b>				<b>9 oz Dactapes</b>			
P81	8 oz	1"	No	P91	9 oz	1"	No
P81H	8 oz	1 1/2"	No	--	--	--	--
P82	8 oz	2"	Yes	P92	9 oz	2"	Yes
P82Q	8 oz	2 1/4"	No	--	--	--	--
P82H	8 oz	2 1/2"	Yes	P92H	9 oz	2 1/2"	Yes
P83	8 oz	3"	Yes	P93	9 oz	3"	Yes
P83Q	8 oz	2 1/4"	No				
P83H	8 oz	3 1/2"	No	P93H	9 oz	3 1/2"	No
P84	8 oz	4"	Yes	P94	9 oz	4"	Yes
P84H	8 oz	4 1/2"	No	--	--	--	--
P84R	8 oz	4 3/4"	No	--	--	--	--
P85	8 oz	5"	Yes	P95	9 oz	5"	Yes
P86	8 oz	6"	Yes	P96	9 oz	6"	Yes

## Nylon Tapes

Nylon tapes are precision heat-slit from our 1.5 oz ripstop spinnaker sailcloth in warp direction in an assortment of colors. Excellent choice for small, light-weight spinnaker leech and foot tapes.

PART	DESCRIPTION	WEIGHT	WIDTH	COLOR	ORDER BY
P1W1H	Nylon Tape	1.5 oz	1 1/2"	White	Yards
P1W2	Nylon Tape	1.5 oz	2"	White	Yards
P1R1H	Nylon Tape	1.5 oz	1 1/2"	Red	Yards
P1R2	Nylon Tape	1.5 oz	2"	Red	Yards
P1B1H	Nylon Tape	1.5 oz	1 1/2"	Dark Blue	Yards
P1B2	Nylon Tape	1.5 oz	2"	Dark Blue	Yards
P1G1H	Nylon Tape	1.5 oz	1 1/2"	Green	Yards
P1G2	Nylon Tape	1.5 oz	2"	Green	Yards



## Colored Polyester Tapes

Precision heat-slit from our 3.8 oz colored fabric. Preferred by many sailmakers for spinnaker tapes or dinghy tapes.

PART	DESCRIPTION	WEIGHT	WIDTH	COLOR	ORDER BY
P4R1	Polyester Tape	3.8 oz	1"	Red	Yards
P4R1H	Polyester Tape	3.8 oz	1 1/2"	Red	Yards
P4R2	Polyester Tape	3.8 oz	2"	Red	Yards
P4R3	Polyester Tape	3.8 oz	3"	Red	Yards
P4R4	Polyester Tape	3.8 oz	4"	Red	Yards
P4B1	Polyester Tape	3.8 oz	1"	Dark Blue	Yards
P4B1H	Polyester Tape	3.8 oz	1 1/2"	Dark Blue	Yards
P4B2	Polyester Tape	3.8 oz	2"	Dark Blue	Yards
P4B3	Polyester Tape	3.8 oz	3"	Dark Blue	Yards
P4B4	Polyester Tape	3.8 oz	4"	Dark Blue	Yards
P4G1	Polyester Tape	3.8 oz	1"	Green	Yards
P4G1H	Polyester Tape	3.8 oz	1 1/2"	Green	Yards
P4G2	Polyester Tape	3.8 oz	2"	Green	Yards
P4G3	Polyester Tape	3.8 oz	3"	Green	Yards
P4K1	Polyester Tape	3.8 oz	1"	Black	Yards
P4K1H	Polyester Tape	3.8 oz	1 1/2"	Black	Yards
P4K2	Polyester Tape	3.8 oz	2"	Black	Yards
P4K3	Polyester Tape	3.8 oz	3"	Black	Yards
P4K4	Polyester Tape	3.8 oz	4"	Black	Yards



## TiO<sup>2</sup>+ UV Coated Polyester Tape

Precision heat slit from our 4.5 oz TiO<sup>2</sup>+ Dacron sailcloth. Perfect for roller-furling leech and foot tapes or touch-ups. Coated on both sides for added durability.

PART	DESCRIPTION	WEIGHT	WIDTH	COLOR	ORDER BY
PUV43	UV Coated Polyester Tape	4.5 oz	3"	White	Yards
PUV44	UV Coated Polyester Tape	4.5 oz	4"	White	Yards



**CHALLENGE SAILCLOTH WEST (COSTA MESA, CA)**

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**Rutgerson Super Tape Folder**



Helps reduce tape creasing time. Very simple design makes this tape folder easy to use and adjusts to fold a variety of different tapes up to 6 inches wide.

PART	DESCRIPTION	SIZE	TAPE WIDTH	ORDER BY
TAPEF	Tape Folder	One Size	up to 6"	Each
TAPEF06	Replacement Plate	6 mm	up to 6"	Each
TAPEF10	Replacement Plate	10 mm	up to 6"	Each

**Super Glide Tape**



Eight ounce tape with raised warp mono-cord greatly reduces friction on bolt ropes for easier raising and lowering of sails. Also perfect as boltrope reinforcement in higher chafe areas on boltropes like Cunninghams, heads and clews.

PART	DESCRIPTION	WEIGHT	WIDTH	COLOR	FULL ROLL LENGTH	ORDER BY
PSG	Super Glide Tape	8 oz	5"	White	100 yds	Yards

**Mainsail Bolt Rope Tape**



Save time by installing mainsail luff tapes using our Premium brand bolt rope tape made of soft-spun polyester three-strand line covered with 6 or 8 oz sailcloth.

PART	DESCRIPTION	ROPE DIA	TAPE WIDTH	FABRIC WEIGHT	ORDER BY
HR4	Mainsail Bolt Rope Tape	1/4"	3"	6 oz	Feet
HR5	Mainsail Bolt Rope Tape	5/16"	4"	8 oz	Feet
HR6	Mainsail Bolt Rope Tape	3/8"	4"	8 oz	Feet

**Premium Luff Tape**



Tape size can be determined by stitching color. 8 oz tapes are identified with blue stitch directly in front of the bumper rope.

PART	TAPE	FABRIC WEIGHT	STITCH CODE	ROPE DIA	FT/ ROLL	ORDER BY
HL4	#4 Premium Luff Tape	6 oz	Yellow	1/8"	300	Feet
HL5	#5 Premium Luff Tape	6 oz	Red	5/32"	300	Feet
HL6	#6 Premium Luff Tape	6 oz	White	3/16"	300	Feet
HL7	#7 Premium Luff Tape	6 oz	Brown	7/32"	300	Feet
HL8	#8 Premium Luff Tape	6 oz	Blue	1/4"	300	Feet
HM6	#6 Premium Luff Tape	8 oz	White	3/16"	300	Feet
HM7	#7 Premium Luff Tape	8 oz	Brown	7/32"	300	Feet
HM8	#8 Premium Luff Tape	8 oz	Blue	1/4"	300	Feet
HM9	#9 Premium Luff Tape	8 oz	Green	9/32"	300	Feet



## TuffLuff Headstay Systems and Replacement Parts

The preferred choice by many racing sailors. Twin grooves allow for easy genoa changes without needing to go bare-headed. Pick from three different extrusion sizes to match the appropriate headstay diameter and length. Each kit includes luff-extrusion, head-cap, extrusion-feeder, spacer tube and genoa pre-feeder. Replacement parts sold separately. Kevlar bumper offers extra impact protection from spinnaker poles.

PART	DESCRIPTION	SYSTEM	TAPE	EXTRUSION	ORDER BY
H1205-36	Complete Headstay Kit	1205	#5	36 ft	Each
H1205-46	Complete Headstay Kit	1205	#5	46 ft	Each
H1706-36	Complete Headstay Kit	1706	#6	36 ft	Each
H1706-46	Complete Headstay Kit	1706	#6	46 ft	Each
H1706-59	Complete Headstay Kit	1706	#6	59 ft	Each
H2206-59	Complete Headstay Kit	2206	#6	59 ft	Each
H2206-72	Complete Headstay Kit	2206	#6	72 ft	Each
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H1205-13	Top Cap	1205	--	--	Each
H1205-02	Stainless Feeder	1205	--	--	Each
H1205-10	Kevlar Bumper	1205	--	--	Each
H1205-03	Spacer Tube (44")	1205	--	--	Each
<hr/>					
H1706-13	Top Cap	1706	--	--	Each
H1706-02	Stainless Feeder	1706	--	--	Each
H1706-10	Kevlar Bumper	1706	--	--	Each
H2206-03	Spacer Tube (44")	1706	--	--	Each
<hr/>					
H2206-13	Top Cap	2206	--	--	Each
H2206-02	Stainless Feeder	2206	--	--	Each
H2206-10	Kevlar Bumper	2206	--	--	Each
H2206-03	Spacer Tube (44")	2206	--	--	Each
H1205-01	Genoa Pre-Feeder	All	--	--	Each



TOP CAP FEEDER



BUMPER PRE-FEEDER

### TAPE SIZES FOR GROOVED HEADSTAY SYSTEMS

Headstay System	#4	#5	#6	#7	#8	#9
Reefer			4-12			18-22
Hood Gemini				14A, 20A		20C
Hood Sea Furl	New A		All Others		Old B	Old C
Twin Stay / Dynafurl	8, 12		18, 24, 30, 48			
Stream Stay		8	9		10, 12	16
Headfoil		20	30, 40	50, 60		
Spoolfurl						All
Harken		0	0, 1, 2			
Furlex		A	B	C,D		
Leistay			M			
Profurl			All			
Reckmann			R3, R4			
TuffLuff		1205	1706, 2206			

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**CHALLENGE  
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**HARDWARE**

**Flat Nylon Webbing**

*Tightly woven nylon webbing is a perfect choice for many sail and canvas making jobs.*



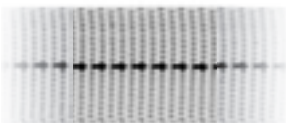
PART	DESCRIPTION	WIDTH	AVG BRK STRG	YD/ ROLL	ORDER BY
YWFNH	White Flat Webbing	1/2"	700 lb	50	Rolls
YWFNR	White Flat Webbing	3/4"	1,184 lb	50	Rolls
YWFN1+	White Flat Webbing	1"	1,635 lb	100	Rolls
YWFN1B	Black Flat Webbing	1"	1,635 lb	100	Rolls
YWFN1H+	White Flat Webbing	1 1/2"	2,220 lb	100	Rolls
YWFN2+	White Flat Webbing	2"	3,460 lb	100	Rolls



YWH	Heavy White Flat Webbing	1"	3,800 lb	50	Rolls
YWX	Extra Heavy White Flat Webbing	1"	5,500 lb	50	Rolls
YWS	Super Heavy White Flat Webbing	1"	6,450 lb	45	Rolls

**Tubular Polyester Webbing**

*Extra-strong tubular webbing with black tracer stripe available in three convenient sizes. The soft-spun tubular polyester is not as strong as our regular tubular polyester, but its soft finish makes it great for sail ties and many canvas projects. This webbing is so soft it can be used as binding.*



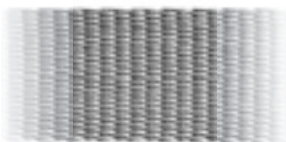
PART	DESCRIPTION	WIDTH	AVG BRK STRG	YD/ ROLL	ORDER BY
YWTP2	White Tubular Webbing	1/2"	1,133 lb	100	Rolls
YWTP3	White Tubular Webbing	3/4"	1,615 lb	100	Rolls
YWTP4	White Tubular Webbing	1"	2,810 lb	50	Rolls



YWTP9	Soft White Tubular Webbing	1 1/8"	1,370 lb	50	Rolls
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**Kevlar® Webbing**

*Tightly woven Kevlar webbing provides strength and durability for demanding racing applications. This Aramid webbing has lower creep under constant load than Spectra/Dyneema based webbing.*



PART	DESCRIPTION	WIDTH	AVG BRK STRG	YD/ ROLL	ORDER BY
YWK	Kevlar Webbing	1"	4,500 lb	25	Rolls

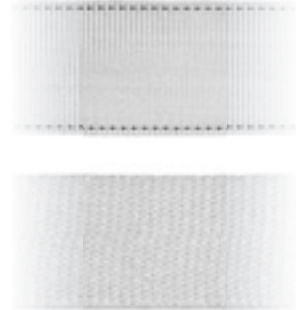




## Spectra / Dyneema UHMWPE Webbing

The ultimate in strength, UV and abrasion resistance, Spectra or Dyneema (also known as UHMWPE for Ultra High Molecular Weight Polyethylene) webbing is perfect for the most demanding applications in racing or offshore sailing. All weights are woven from either Spectra or Dyneema UHMWPE fibers in both warp and fill. Light weights feature a blue tracer line near selvages.

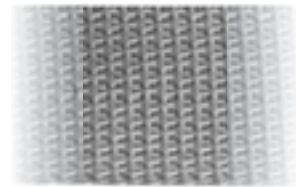
PART	DESCRIPTION	WIDTH	AVG BRK STRG	YD/ ROLL	ORDER BY
YWS1L	Light UHMWPE Webbing	1"	2,380 lb	55	Rolls
YWS2L	Light UHMWPE Webbing	2"	4,130 lb	55	Rolls
YWS1S	Heavy UHMWPE Webbing	1"	7,500 lb	25	Rolls
YWS3S	Heavy UHMWPE Webbing	1 3/4"	14,000 lb	25	Rolls



## Polypropylene Webbing

Standard weight polypropylene is perfect for applications that require light weight, color and almost no water absorption. Other colors available by special order. Minimum quantities apply, call for details.

PART	DESCRIPTION	WIDTH	AVG BRK STRG	YD/ ROLL	ORDER BY
YWPRY	Royal Polypro Web	1"	500 lb	100	Rolls
YWPK	Black Polypro Web	1"	500 lb	100	Rolls
YWPW	White Polypro Web	1"	500 lb	100	Rolls
YWPN	Navy Polypro Web	1"	500 lb	100	Rolls
YWPR	Red Polypro Web	1"	500 lb	100	Rolls
YWPG	Green Polypro Web	1"	500 lb	100	Rolls
YWPY	Yellow Polypro Web	1"	500 lb	100	Rolls
YWPO	Orange Polypro Web	1"	500 lb	100	Rolls
YWPS	Silver Polypro Web	1"	500 lb	100	Rolls
YWPRY1H	Royal Polypro Web	1 1/2"	775 lb	100	Rolls
YWPK1H	Black Polypro Web	1 1/2"	775 lb	100	Rolls
YWPW1H	White Polypro Web	1 1/2"	775 lb	100	Rolls
YWPN1H	Navy Polypro Web	1 1/2"	775 lb	100	Rolls
YWPR1H	Red Polypro Web	1 1/2"	775 lb	100	Rolls
YWPG1H	Green Polypro Web	1 1/2"	775 lb	100	Rolls
YWPRY2	Royal Polypro Web	2"	837 lb	100	Rolls
YWPK2	Black Polypro Web	2"	837 lb	100	Rolls
YWPW2	White Polypro Web	2"	837 lb	100	Rolls
YWPN2	Navy Polypro Web	2"	837 lb	100	Rolls
YWPR2	Red Polypro Web	2"	837 lb	100	Rolls
YWPG2	Green Polypro Web	2"	837 lb	100	Rolls



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**CHALLENGE  
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**Batten Pocket Elastic**

*Extra thick woven elastic for best recovery and long life. Use batten pocket elastic to keep the batten in the pocket.*



PART	DESCRIPTION	WIDTH	THICKNESS	YD/ROLL	ORDER BY
YBH	Batten Pocket Elastic	1/2"	0.070"	25	Rolls
YB3	Batten Pocket Elastic	3/4"	0.070"	25	Rolls
YB1	Batten Pocket Elastic	1"	0.070"	25	Rolls
YB1H	Batten Pocket Elastic	1 1/2"	0.070"	25	Rolls
YB2	Batten Pocket Elastic	2"	0.070"	25	Rolls

**Cam Buckles**

*Used for adjustment of compression battens.*



PART	DESCRIPTION	WEBBING SIZE	QTY/PKG	ORDER BY
FBCT	Cam Buckle	3/4"	50	Each
FBC1	Cam Buckle	1"	50	Each

**Ladderlock Buckles**

*Engineered for strength from one solid piece with fixed middle bar. Special features ensure smooth and easy tightening with less slippage and the convenience of one handed release or tightening.*



PART	DESCRIPTION	WEBBING SIZE	QTY/PKG	ORDER BY
FBL5	Ladderlock Buckle	5/8"	50	Each
FBLT	Ladderlock Buckle	3/4"	50	Each
FBL1	Ladderlock Buckle	1"	50	Each

**Heavy Duty Ladderlock Buckles**

*Heavy duty buckle, used for adjustment of compression battens and tie downs.*



PART	DESCRIPTION	WEBBING SIZE	QTY/PKG	ORDER BY
FBLHD	Heavy Duty Ladderlock	1"	50	Each

**Side-Release Buckles**

*YKK® Apollo series, the highest strength side-release buckles available (300 lbs. average at 1"). New high-tech design incorporates a four position lock mechanism for added safety. Non-slip adjuster ensures secure restraint. Inner rib increases impact resistance. Molded in black Delrin (acetal).*



PART	DESCRIPTION	WEBBING SIZE	QTY/PKG	ORDER BY
FBS	Side Release Buckle	1"	50	Each
FBS2	Side Release Buckle	2"	50	Each



## Velcro® Nylon Hook and Loop

Velcro® brand nylon hook and loop is highest quality for a variety of fastening needs. Nylon hook and loop provide the best holding strength.

PART	DESCRIPTION	WIDTH	COLOR	YD/ROLL	ORDER BY
YH5	Nylon Hook	5/8"	White	50	Full Rolls
YH1	Nylon Hook	1"	White	50	Full Rolls
YH15	Nylon Hook	1 5/8"	White	50	Full Rolls
YH2	Nylon Hook	2"	White	50	Full Rolls
YL5	Nylon Loop	5/8"	White	50	Full Rolls
YL1	Nylon Loop	1"	White	50	Full Rolls
YL15	Nylon Loop	1 5/8"	White	50	Full Rolls
YL2	Nylon Loop	2"	White	50	Full Rolls
YH5K	Nylon Hook	5/8"	Black	50	Full Rolls
YH1K	Nylon Hook	1"	Black	50	Full Rolls
YH2K	Nylon Hook	2"	Black	50	Full Rolls
YL5K	Nylon Loop	5/8"	Black	50	Full Rolls
YL1K	Nylon Loop	1"	Black	50	Full Rolls
YL2K	Nylon Loop	2"	Black	50	Full Rolls



## Adhesive Back Velcro® Nylon Hook and Loop

Same product as above, but backed with a specially formulated outdoor adhesive.

PART	DESCRIPTION	WIDTH	COLOR	YD/ROLL	ORDER BY
YHN1A	Adhesive Back Nylon Hook	1"	White	25	Full Rolls
YLN1A	Adhesive Back Nylon Loop	1"	White	25	Full Rolls



## Polyester Hook and Loop

A more durable option where hook and loop are exposed to constant UV.

PART	DESCRIPTION	WIDTH	COLOR	YD/ROLL	ORDER BY
YHP1	Polyester Hook	1"	White	50	Full Rolls
YLP1	Polyester Loop	1"	White	50	Full Rolls



## Economy Nylon Hook and Loop

Good quality and pricing make this Nylon hook and loop the best value available.

PART	DESCRIPTION	WIDTH	COLOR	YD/ROLL	ORDER BY
YHE1	Nylon Hook	1"	White	50	Full Rolls
YHE2	Nylon Hook	2"	White	50	Full Rolls
YLE1	Nylon Loop	1"	White	50	Full Rolls
YLE2	Nylon Loop	2"	White	50	Full Rolls
YHE1K	Nylon Hook	1"	Black	50	Full Rolls
YHE2K	Nylon Hook	2"	Black	50	Full Rolls
YLE1K	Nylon Loop	1"	Black	50	Full Rolls
YLE2K	Nylon Loop	2"	Black	50	Full Rolls

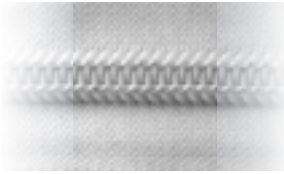


**CHALLENGE SAILCLOTH WEST (COSTA MESA, CA)**

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**CHALLENGE  
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**HARDWARE**

**YKK® Continuous Coil Zipper Chain**



*Fine toothed coil is quite flexible for rounding corners or strange angles.*

PART	DESCRIPTION	WIDTH	CLR	YD/ROLL	ORDER BY
YZIPC5	#5 Coil Continuous Zipper	1 1/4"	White	218	Yards
YZIPC5B	#5 Coil Continuous Zipper	1 1/4"	Black	218	Yards
YZIPC10	#10 Coil Continuous Zipper	1 9/16"	White	109	Yards
YZIPC10B	#10 Coil Continuous Zipper	1 9/16"	Black	109	Yards

**YKK® #5 Continuous Coil Zipper Sliders**



*Choose between all metal die-cast white or nickel sliders with single or double pulls.*

PART	DESCRIPTION	PULL	MTRL	LCK	CLR	QTY/PKG	ORDER BY
<b>White Coil Zipper Sliders</b>							
YZQ52	#5 Coil Slider	Sing.	Metal	Non	White	50	Each
YZQ54	#5 Coil Slider	Doub.	Metal	Non	White	50	Each

**Nickel Coil Zipper Sliders**

YZQ51	#5 Coil Slider	Sing.	Metal	Non	Nickel	50	Each
YZQ53	#5 Coil Slider	Doub.	Metal	Non	Nickel	50	Each

**YKK® #10 Continuous Coil Zipper Sliders**



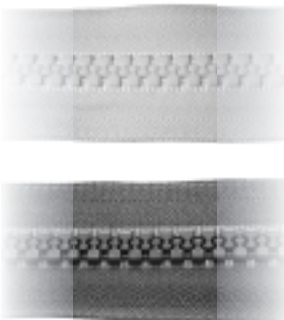
*Choose between all metal die-cast white or nickel sliders with single or double pulls.*

PART	DESCRIPTION	PULL	MTRL	LCK	CLR	QTY/PKG	ORDER BY
<b>White Coil Zipper Sliders</b>							
YZQ92	#10 Coil Slider	Sing.	Metal	Non	White	50	Each

**Nickel Coil Zipper Sliders**

YZQ91	#10 Coil Slider	Sing.	Metal	Non	Nickel	50	Each
YZQ93	#10 Coil Slider	Doub.	Metal	Non	Nickel	50	Each

**YKK® Vislon® Continuous Zipper Chain**



*Vislon® brand zippers are tough and designed for many outdoor applications. Available in four sizes: 5, 8, 10 or 15 to suit your specific application. All YKK® Vislon® zipper chain is manufactured from Marine Mate UV resistant acetal resin for the best longevity available on the market.*

PART	DESCRIPTION	WIDTH	CLR	YD/ROLL	ORDER BY
<b>White Vislon® Continuous Zipper Chain</b>					
YZIPV5	#5 Vislon® Continuous Zipper	1 3/16"	White	218	Yards
YZIPV8	#8 Vislon® Continuous Zipper	1 1/4"	White	136	Yards
YZIPV10	#10 Vislon® Continuous Zipper	1 1/2"	White	109	Yards
YZIPV15	#15 Vislon® Continuous Zipper	2 3/4"	White	54.5	Yards

**Black Vislon® Continuous Zipper Chain**

YZIPV5B	#5 Vislon® Continuous Zipper	1 3/16"	Black	218	Yards
YZIPV10B	#10 Vislon® Continuous Zipper	1 1/2"	Black	109	Yards
YZIPV15B	#15 Vislon® Continuous Zipper	2 3/4"	Black	54.5	Yards



## YKK® #5 Vislon® Zipper Sliders

Choose between all metal die-cast sliders or corrosion-proof plastic sliders with single or double pulls.

PART	DESCRIPTION	PULL	MTRL	LCK	CLR	QTY/PKG	ORDER BY
<b>White Vislon® Zipper Slides</b>							
YZP51	#5 Vislon® Slider	Sing.	Metal	Non	White	50	Each
YZP52	#5 Vislon® Slider	Sing.	Plastic	Non	White	50	Each
YZP58	#5 Vislon® Slider	Sing.	Plastic	Auto	White	50	Each
YZP59	#5 Vislon® Slider	Doub.	Metal	Auto	White	50	Each
YZP56	#5 Vislon® Slider	Doub.	Plastic	Non	White	50	Each
YZP60S	#5 Vislon® Slider	Doub.	Plastic	Auto	White	50	Each

### Black Vislon® Zipper Slides

YZP53	#5 Vislon® Slider	Sing.	Metal	Non	Black	50	Each
YZP54	#5 Vislon® Slider	Sing.	Plastic	Non	Black	50	Each



## YKK® #8 Vislon® Zipper Sliders

Choose between all metal die-cast sliders or corrosion-proof plastic sliders with single or double pulls.

PART	DESCRIPTION	PULL	MTRL	LCK	CLR	QTY/PKG	ORDER BY
YZP81	#8 Vislon® Slider	Sing.	Metal	Auto	White	50	Each
YZP83	#8 Vislon® Slider	Doub.	Metal	Auto	White	50	Each



## YKK® #10 Vislon® Zipper Sliders

Choose between all metal die-cast sliders or corrosion-proof plastic sliders with single or double pulls.

PART	DESCRIPTION	PULL	MTRL	LCK	CLR	QTY/PKG	ORDER BY
<b>White Vislon® Zipper Sliders</b>							
YZP91	#10 Vislon® Slider	Sing.	Metal	Non	White	50	Each
YZP96	#10 Vislon® Slider	Sing.	Plastic	Auto	White	50	Each
YZP93	#10 Vislon® Slider	Doub.	Metal	Non	White	50	Each
YZP98	#10 Vislon® Slider	Doub.	Metal	Auto	White	50	Each
YZP94	#10 Vislon® Slider	Doub.	Plastic	Non	White	50	Each
YZP99	#10 Vislon® Slider	Doub.	Plastic	Auto	White	50	Each

### Black Vislon® Zipper Sliders

YZP92	#10 Vislon® Slider	Sing.	Metal	Non	Black	50	Each
YZP97	#10 Vislon® Slider	Sing.	Plastic	Auto	Black	50	Each
YZP95	#10 Vislon® Slider	Doub.	Plastic	Non	Black	50	Each



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**CHALLENGE  
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**YKK® #15 Vislon® Zipper Sliders**



Choose between plastic or stainless steel pulls.

PART	DESCRIPTION	PULL	MTRL	LCK	CLR	QTY/PKG	ORDER BY
YZDPSBK	#15 Slider	Sing.	Plastic	Non	Black	10	Each
YZPS	#15 Slider	Sing.	Metal	Non	SS	5	Each
YZDPS	#15 Slider	Doub.	Metal	Non	SS	5	Each

**YKK® Star Jib Zipper**



216" separating zipper used by many sailmakers on Star Jib Luffs.

PART	DESCRIPTION	PULL	MTRL	LNG	CLR	QTY/PKG	ORDER BY
YZS1	#5 Star Jib Zipper	Sing.	Metal	216"	White	10	Each
YZS10	#10 Star Jib Zipper	Sing.	Metal	216"	White	10	Each

**YKK® #5 Vislon® Jacket Zippers – Single Metal Pull**



Feature starter end, single metal pull and end stops.

PART	DESCRIPTION	PULL	MTRL	LNG	CLR	QTY/PKG	ORDER BY
YZJ48	#5 Jacket Zipper	Sing.	Metal	48"	White	25	Each
YZJ84	#5 Jacket Zipper	Sing.	Metal	84"	White	10	Each
YZJ186	#5 Jacket Zipper	Sing.	Metal	186"	White	10	Each
YZJ264	#5 Jacket Zipper	Sing.	Metal	264"	White	10	Each

**YKK® #10 Vislon® Jacket Zippers – Single Metal Pull**



Feature starter end, single metal pull and end stops.

PART	DESCRIPTION	PULL	MTRL	LNG	CLR	QTY/PKG	ORDER BY
YZ24	#10 Jacket Zipper	Sing.	Metal	24"	White	50	Each
YZ30	#10 Jacket Zipper	Sing.	Metal	30"	White	25	Each
YZ36	#10 Jacket Zipper	Sing.	Metal	36"	White	25	Each
YZ48	#10 Jacket Zipper	Sing.	Metal	48"	White	25	Each
YZ54	#10 Jacket Zipper	Sing.	Metal	54"	White	25	Each
YZ60	#10 Jacket Zipper	Sing.	Metal	60"	White	25	Each
YZ66	#10 Jacket Zipper	Sing.	Metal	66"	White	25	Each
YZ72	#10 Jacket Zipper	Sing.	Metal	72"	White	25	Each
YZ84	#10 Jacket Zipper	Sing.	Metal	84"	White	10	Each
YZ96	#10 Jacket Zipper	Sing.	Metal	96"	White	10	Each
YZ108	#10 Jacket Zipper	Sing.	Metal	108"	White	10	Each
YZ120	#10 Jacket Zipper	Sing.	Metal	120"	White	10	Each
YZ180	#10 Jacket Zipper	Sing.	Metal	180"	White	10	Each

## YKK® #10 Vislon® Jacket Zippers – Single Plastic Pull

Feature starter end, single plastic pull and end stops.

PART	DESCRIPTION	PULL	MTRL	LNG	CLR	QTY/PKG	ORDER BY
YZP24	#10 Jacket Zipper	Sing.	Plastic	24"	White	50	Each
YZP36	#10 Jacket Zipper	Sing.	Plastic	36"	White	25	Each
YZP48	#10 Jacket Zipper	Sing.	Plastic	48"	White	25	Each
YZP54Z	#10 Jacket Zipper	Sing.	Plastic	54"	White	20	Each
YZP60Z	#10 Jacket Zipper	Sing.	Plastic	60"	White	20	Each
YZP72	#10 Jacket Zipper	Sing.	Plastic	72"	White	20	Each
YZP180	#10 Jacket Zipper	Sing.	Plastic	180"	White	10	Each
YZP240	#10 Jacket Zipper	Sing.	Plastic	240"	White	--	Each
YZP360	#10 Jacket Zipper	Sing.	Plastic	360"	White	--	Each



## YKK® #10 Vislon® Jacket Zippers – Double Metal Pull

Feature starter end, double metal pull and end stops.

PART	DESCRIPTION	PULL	MTRL	LNG	CLR	QTY/PKG	ORDER BY
<b>White Vislon® Jacket Zippers – Locking Pull</b>							
YZD24	#10 Jacket Zipper	Doub.	Metal	24"	White	50	Each
YZD30	#10 Jacket Zipper	Doub.	Metal	30"	White	25	Each
YZD36	#10 Jacket Zipper	Doub.	Metal	36"	White	25	Each
YZD48	#10 Jacket Zipper	Doub.	Metal	48"	White	25	Each
YZD54	#10 Jacket Zipper	Doub.	Metal	54"	White	25	Each
YZD60	#10 Jacket Zipper	Doub.	Metal	60"	White	25	Each
YZD66	#10 Jacket Zipper	Doub.	Metal	66"	White	25	Each
YZD72	#10 Jacket Zipper	Doub.	Metal	72"	White	25	Each
YZD84	#10 Jacket Zipper	Doub.	Metal	84"	White	10	Each
YZD96	#10 Jacket Zipper	Doub.	Metal	96"	White	10	Each
YZD108	#10 Jacket Zipper	Doub.	Metal	108"	White	10	Each
YZD120	#10 Jacket Zipper	Doub.	Metal	120"	White	10	Each
YZD144	#10 Jacket Zipper	Doub.	Metal	144"	White	10	Each
YZD180	#10 Jacket Zipper	Doub.	Metal	180"	White	10	Each

### Black Vislon® Jacket Zippers – Locking Pull

YZD24B	#10 Jacket Zipper	Doub.	Metal	24"	Black	50	Each
YZD36B	#10 Jacket Zipper	Doub.	Metal	36"	Black	25	Each
YZD48B	#10 Jacket Zipper	Doub.	Metal	48"	Black	25	Each
YZD54B	#10 Jacket Zipper	Doub.	Metal	54"	Black	25	Each
YZD60B	#10 Jacket Zipper	Doub.	Metal	60"	Black	25	Each
YZD66B	#10 Jacket Zipper	Doub.	Metal	66"	Black	25	Each
YZD72B	#10 Jacket Zipper	Doub.	Metal	72"	Black	25	Each
YZD84B	#10 Jacket Zipper	Doub.	Metal	84"	Black	10	Each
YZD96B	#10 Jacket Zipper	Doub.	Metal	96"	Black	10	Each
YZD108B	#10 Jacket Zipper	Doub.	Metal	108"	Black	10	Each
YZD120B	#10 Jacket Zipper	Doub.	Metal	120"	Black	10	Each
YZD144B	#10 Jacket Zipper	Doub.	Metal	144"	Black	10	Each
YZD180B	#10 Jacket Zipper	Doub.	Metal	180"	Black	10	Each



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**CHALLENGE  
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## YKK® #10 Vislon® Jacket Zippers – Double Plastic Pull

Feature starter end, double plastic pull and end stops.



PART	DESCRIPTION	PULL	MTRL	LNG	CLR	QTY/PKG	ORDER BY
<b>White Vislon® Jacket Zippers</b>							
YZDP24	#10 Jacket Zipper	Doub.	Plastic	24"	White	50	Each
YZDP36	#10 Jacket Zipper	Doub.	Plastic	36"	White	50	Each
YZDP48	#10 Jacket Zipper	Doub.	Plastic	48"	White	25	Each
YZDP60	#10 Jacket Zipper	Doub.	Plastic	60"	White	20	Each
YZDP72	#10 Jacket Zipper	Doub.	Plastic	72"	White	20	Each
YZDP108	#10 Jacket Zipper	Doub.	Plastic	108"	White	10	Each

### Black Vislon® Jacket Zippers

YZDP24B	#10 Jacket Zipper	Doub.	Plastic	24"	Black	50	Each
YZDP36B	#10 Jacket Zipper	Doub.	Plastic	36"	Black	50	Each
YZDP48B	#10 Jacket Zipper	Doub.	Plastic	48"	Black	25	Each
YZDP60B	#10 Jacket Zipper	Doub.	Plastic	60"	Black	20	Each
YZDP72B	#10 Jacket Zipper	Doub.	Plastic	72"	Black	20	Each
YZDP108B	#10 Jacket Zipper	Doub.	Plastic	108"	Black	10	Each

## YKK® #10 Zipper Stops

White enamel coated die-cast metal stops crimp-on with pliers for a professional finish. Choose between end-stop or side-stop.



PART	DESCRIPTION	MTRL	CLR	QTY/PKG	ORDER BY
YZEND	Zipper End-Stop	Metal	White	100	Pkg
YZSIDE	Zipper Side-Stop	Metal	White	100	Pkg



## American & Efird Bonded Polyester Thread

Quality bonded polyester thread offers good UV resistance, low moisture gain and is our most economical thread. Sold in one pound metered spools.

PART	DESCRIPTION	SIZE	COLOR	YD/SPL	LB/SPL	ORDER BY
VTEX46W	Polyester Thread	V46	White	5,400	1	Spool
VTEX46BK	Polyester Thread	V46	Black	5,400	1	Spool
VTEX69W	Polyester Thread	V69	White	5,400	1	Spool
VTEX69BK	Polyester Thread	V69	Black	5,400	1	Spool
VTEX92W	Polyester Thread	V92	White	4,000	1	Spool
VTEX92BK	Polyester Thread	V92	Black	4,000	1	Spool
VTEX92CG	Polyester Thread	V92	Cadet Gray	4,000	1	Spool
VTEX138W	Polyester Thread	V138	White	2,700	1	Spool
VTEX138BK	Polyester Thread	V138	Black	2,700	1	Spool
VTEX207W	Polyester Thread	V207	White	1,800	1	Spool
VTEX207BK	Polyester Thread	V207	Black	1,800	1	Spool



## Heminway & Bartlett V30 Thread

A long-sailmaking tradition, this premium quality thread offers low moisture gain with good mildew and UV resistance due to its advanced bonding process.

PART	DESCRIPTION	SIZE	COLOR	H&B CLR	LB/SPL	ORDER BY
V30W	Thread	V30	White	--	1	Lbs
V30BU	Thread	V30	Navy Blue	144	1	Lbs
V30G	Thread	V30	Green	428	1	Lbs
V30R	Thread	V30	Red	62	1	Lbs
V30BK	Thread	V30	Black	50	1	Lbs



## Heminway & Bartlett V46 Thread

A long-sailmaking tradition, this premium quality thread offers low moisture gain with good mildew and UV resistance due to its advanced bonding process.

PART	DESCRIPTION	SIZE	COLOR	H&B CLR	LB/SPL	ORDER BY
V46W	Thread	V46	White	--	1	Lbs
V46BU	Thread	V46	Navy Blue	144	1	Lbs
V46BK	Thread	V46	Black	50	1	Lbs
V46CH	Thread	V46	Chestnut	3952	1	Lbs
V46S	Thread	V46	Silver	11485	1	Lbs
V46G	Thread	V46	Green	428	1	Lbs
V46R	Thread	V46	Red	62	1	Lbs
V46O	Thread	V46	Orange	244	1	Lbs
V46Y	Thread	V46	Yellow	230	1	Lbs
V46RY	Thread	V46	Royal Blue	9382	1	Lbs



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**CHALLENGE  
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**Heminway & Bartlett V69 Thread**

*A long-sailmaking tradition, this premium quality thread offers low moisture gain with good mildew and UV resistance due to its advanced bonding process.*



PART	DESCRIPTION	SIZE	COLOR	H&B CLR	LB/SPL	ORDER BY
V69W	Thread	V69	White	--	1	Lbs
V69BU	Thread	V69	Navy Blue	144	1	Lbs
V69BK	Thread	V69	Black	50	1	Lbs
V69CH	Thread	V69	Chestnut	3952	1	Lbs
V69S	Thread	V69	Silver	11485	1	Lbs
V69G	Thread	V69	Green	428	1	Lbs
V69R	Thread	V69	Red	62	1	Lbs
V69O	Thread	V69	Orange	244	1	Lbs
V69Y	Thread	V69	Yellow	230	1	Lbs
V69RYB	Thread	V69	Royal Blue	9382	1	Lbs

**Heminway & Bartlett V92 Thread**

*A long-sailmaking tradition, this premium quality thread offers low moisture gain with good mildew and UV resistance due to its advanced bonding process.*



PART	DESCRIPTION	SIZE	COLOR	H&B CLR	LB/SPL	ORDER BY
V92W	Thread	V92	White	--	1	Lbs
V92BU	Thread	V92	Navy Blue	144	1	Lbs
V92BK	Thread	V92	Black	50	1	Lbs
V92CH	Thread	V92	Chestnut	3952	1	Lbs
V92S	Thread	V92	Silver	11485	1	Lbs
V92G	Thread	V92	Green	428	1	Lbs
V92CG*	Thread	V92	Cadet Gray	13665	1	Lbs
V92R	Thread	V92	Red	62	1	Lbs
V92O	Thread	V92	Orange	244	1	Lbs
V92Y	Thread	V92	Yellow	230	1	Lbs
V92RY	Thread	V92	Royal Blue	9382	1	Lbs
V92SPB*	Thread	V92	Pacific Blue	11125	1	Lbs
V92SSB*	Thread	V92	Sky Blue	112	1	Lbs
V92SB*	Thread	V92	Sapphire	13671	1	Lbs
V92OY*	Thread	V92	Oyster	13664	1	Lbs
V92L*	Thread	V92	Linen	13666	1	Lbs
V92SFG*	Thread	V92	Forest Green	430	1	Lbs
V92SNB*	Thread	V92	Captain Navy	154	1	Lbs
V92BG	Thread	V92	Peasant Beige	352	1	Lbs

\* Shades specifically formulated to match Sunbrella colors.



## Heminway & Bartlett V138 Thread

A long-sailmaking tradition, this premium quality thread offers low moisture gain with good mildew and UV resistance due to its advanced bonding process.

PART	DESCRIPTION	SIZE	COLOR	H&B CLR	LB/SPL	ORDER BY
V138W	Thread	V138	White	--	1	Lbs
V138BU	Thread	V138	Navy Blue	144	1	Lbs
V138BK	Thread	V138	Black	50	1	Lbs
V138S	Thread	V138	Silver	11485	1	Lbs
V138CH	Thread	V138	Chestnut	3952	1	Lbs
V138G	Thread	V138	Green	428	1	Lbs
V138R	Thread	V138	Red	62	1	Lbs
V138RY	Thread	V138	Royal Blue	9382	1	Lbs
V138Y	Thread	V138	Yellow	230	1	Lbs



## Heminway & Bartlett V207, V277 & V346 Thread

A long-sailmaking tradition, this premium quality thread offers low moisture gain with good mildew and UV resistance due to its advanced bonding process.

PART	DESCRIPTION	SIZE	COLOR	H&B CLR	LB/SPL	ORDER BY
V207	Thread	V207	White	--	1	Lbs
V207CH	Thread	V207	Chestnut	3952	1	Lbs
V277	Thread	V277	White	--	1	Lbs
V277BK	Thread	V277	Black	50	1	Lbs
V277CH	Thread	V277	Chestnut	3952	1	Lbs
V346	Thread	V346	White	--	1	Lbs



## Heminway & Bartlett 1 oz Thread Spools

Heminway & Bartlett quality, a little bit at a time. Perfect solution for small jobs.

PART	DESCRIPTION	SIZE	COLOR	H&B CLR	LB/SPL	ORDER BY
VU30W	1oz Spools	V30	White	--	1	Oz
VU30BK	1oz Spools	V30	Black	50	1	Oz
VU46W	1oz Spools	V46	White	--	1	Oz
VU69BK	1oz Spools	V69	Black	50	1	Oz
VU69BU	1oz Spools	V69	Navy Blue	144	1	Oz
VU69CH	1oz Spools	V69	Chestnut	3952	1	Oz
VU69G	1oz Spools	V69	Green	428	1	Oz
VU69R	1oz Spools	V69	Red	62	1	Oz
VU69SPB	1oz Spools	V69	Snbrl Pcf Bl	7262	1	Oz
VU69W	1oz Spools	V69	White	--	1	Oz
VU92BK	1oz Spools	V92	Black	50	1	Oz
VU92BU	1oz Spools	V92	Navy Blue	144	1	Oz
VU92W	1oz Spools	V92	White	--	1	Oz



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**CHALLENGE  
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**Heminway & Bartlett Reverse Twist Thread**



Same quality Heminway and Bartlett thread with an "S" twist for special machines (like double needle machines) that require reverse twist.

PART	DESCRIPTION	SIZE	COLOR	H&B CLR	LB/SPL	ORDER BY
VR69W	Rev Twist Thread	V69	White	--	1	Lbs
VR92W	Rev Twist Thread	V92	White	--	1	Lbs

**Heminway & Bartlett V46 Bellbobs**



Convenient pre-wound Bellbobs feature plastic core for smooth operation and no sides to increase bobbin volume.

PART	DESCRIPTION	STYLE	SIZE	COLOR	QTY/GRS	ORDER BY
V46BBD	Bellbobs	D	V46	White	144	Gross
V46BBF	Bellbobs	F	V46	White	144	Gross
V46BBSF	Bellbobs	F	V46	Silver	144	Gross
V46BBG	Bellbobs	G	V46	White	144	Gross
V46BBH	Bellbobs	H	V46	White	144	Gross
V46BBL	Bellbobs	L	V46	White	144	Gross

**Heminway & Bartlett V69 Bellbobs**



Convenient pre-wound Bellbobs feature plastic core for smooth operation and no sides to increase bobbin volume.

PART	DESCRIPTION	STYLE	SIZE	COLOR	QTY/GRS	ORDER BY
V69BBD	Bellbobs	D	V69	White	144	Gross
V69BBF	Bellbobs	F	V69	White	144	Gross
V69BBBUF	Bellbobs	F	V69	Navy Blue	144	Gross
V69BBSF	Bellbobs	F	V69	Silver	144	Gross
V69BBCHF	Bellbobs	F	V69	Chestnut	144	Gross
V69BBBKF	Bellbobs	F	V69	Black	144	Gross
V69BBG	Bellbobs	G	V69	White	144	Gross
V69BBKG	Bellbobs	G	V69	Black	144	Gross
V69BCHG	Bellbobs	G	V69	Chestnut	144	Gross
V69BBH	Bellbobs	H	V69	White	144	Gross
V69BBSH	Bellbobs	H	V69	Silver	144	Gross
V69BBBKH	Bellbobs	H	V69	Black	144	Gross
V69BBL	Bellbobs	L	V69	White	144	Gross
V69BBCHL	Bellbobs	L	V69	Chestnut	144	Gross
V69BBBKL	Bellbobs	L	V69	Black	144	Gross
V69BBM	Bellbobs	M	V69	White	144	Gross
V69BBT	Bellbobs	T	V69	White	144	Gross



## Heminway & Bartlett V92 Bellbobs

Convenient pre-wound Bellbobs feature plastic core for smooth operation and no sides to increase bobbin volume.

PART	DESCRIPTION	STYLE	SIZE	COLOR	QTY/GRS	ORDER BY
V92BBBD	Bellbobs	D	V92	White	144	Gross
V92BBBF	Bellbobs	F	V92	White	144	Gross
V92BBBUF	Bellbobs	F	V92	Navy Blue	144	Gross
V92BBSF	Bellbobs	F	V92	Silver	144	Gross
V92BBCHF	Bellbobs	F	V92	Chestnut	144	Gross
V92BBG	Bellbobs	G	V92	White	144	Gross
V92BBBUG	Bellbobs	G	V92	Navy Blue	144	Gross
V92BBH	Bellbobs	H	V92	White	144	Gross
V92BBSH	Bellbobs	H	V92	Silver	144	Gross
V92BBL	Bellbobs	L	V92	White	144	Gross
V92BBM	Bellbobs	M	V92	White	144	Gross
V92BBT	Bellbobs	T	V92	White	144	Gross
V92BB39	Bellbobs	39	V92	White	144	Gross
V92BB56	Bellbobs	56	V92	White	144	Gross
V92BB57	Bellbobs	57	V92	White	144	Gross
V92BBBU57	Bellbobs	57	V92	Navy Blue	144	Gross



## Heminway & Bartlett V138 & V207 Bellbobs

Convenient pre-wound Bellbobs feature plastic core for smooth operation and no sides to increase bobbin volume.

PART	DESCRIPTION	STYLE	SIZE	COLOR	QTY/GRS	ORDER BY
V138BBBD	Bellbobs	D	V138	White	144	Gross
V138BBBF	Bellbobs	F	V138	White	144	Gross
V138BBBKF	Bellbobs	F	V138	Black	144	Gross
V138BBG	Bellbobs	G	V138	White	144	Gross
V138BBBK	Bellbobs	G	V138	Black	144	Gross
V138BBSG	Bellbobs	G	V138	Silver	144	Gross
V138BBH	Bellbobs	H	V138	White	144	Gross
V138BBL	Bellbobs	L	V138	White	144	Gross
V138BB39	Bellbobs	39	V138	White	144	Gross
V138BB57	Bellbobs	57	V138	White	144	Gross
V138BBBU57	Bellbobs	57	V138	Navy Blue	144	Gross
V207BB39	Bellbobs	39	V207	White	144	Gross
V207BB57	Bellbobs	57	V207	White	144	Gross



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**CHALLENGE  
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**Heminway & Bartlett Anti-Wick Bonded Thread**

*Special extra finishing process prevents moisture from wicking through thread. Perfect for dodgers, biminis and covers.*



PART	DESCRIPTION	SIZE	COLOR	LB/SPL	ORDER BY
VA69W	Anti-Wick Thread	V69	White	1	Lbs
VA69BU	Anti-Wick Thread	V69	Navy Blue	1	Lbs
VA92W	Anti-Wick Thread	V92	White	1	Lbs
VA92PB	Anti-Wick Thread	V92	Pacific Blue	1	Lbs
VA92R	Anti-Wick Thread	V92	Red	1	Lbs
VA92BK	Anti-Wick Thread	V92	Black	1	Lbs
VA92BU	Anti-Wick Thread	V92	Navy Blue	1	Lbs
VA138W	Anti-Wick Thread	V138	White	1	Lbs
VA138PB	Anti-Wick Thread	V138	Pacific Blue	1	Lbs
VA138BK	Anti-Wick Thread	V138	Black	1	Lbs
VA207W	Anti-Wick Thread	V207	White	1	Lbs

**Heminway & Bartlett Pre-Waxed Hand Sewing Thread**

*Quality thread, pre-waxed for handsewing convenience and durability.*



PART	DESCRIPTION	SIZE	COLOR	LB/SPL	YD/LB	ORDER BY
V346WH	Pre-Waxed Thread	V346	White	1	1100	Lbs
V462WH	Pre-Waxed Thread	V462	White	1	950	Lbs
V9C	Pre-Waxed Thread	V9C	White	1	600	Lbs

**Tenara Gore-Tex Thread**

*Manufactured from 100% PTFE fiber, commonly known as Teflon®, this unique thread is easier to sew and will not rot or mildew. It is also unaffected by UV, salt water, acid rain, industrial pollutants or cleaning agents. It is backed by a lifetime warranty. All below part numbers are 'TR' style Tenara, which is the second generation that has a better elongation and is lubricated to aid in high-speed sewing. The 'Original' style Tenara without lubrication is available by special order, please inquire for details.*



PART	DESCRIPTION	WGT	SIZE	COLOR	LB/SPL	ORDER BY
VGM1000-5W	Gore-Tex TR Thread	Std	V92	White	1/2	1/2 lb
VGM1000-5BK	Gore-Tex TR Thread	Std	V92	Black	1/2	1/2 lb
VGM1000-5BU	Gore-Tex TR Thread	Std	V92	Blue	1/2	1/2 lb
VGM1000KTR-L-5	Gore-Tex TR Thread	Std	V92	Clear	1/2	1/2 lb
VGM1000H-5W	Gore-Tex TR Thread	Hvy	V138	White	1/2	1/2 lb
VGM1000H-5B	Gore-Tex TR Thread	Hvy	V138	Black	1/2	1/2 lb
VGM1000H-5BU	Gore-Tex TR Thread	Hvy	V138	Blue	1/2	1/2 lb
VGM1000KHTR-L-5	Gore-Tex TR Thread	Hvy	V138	Clear	1/2	1/2 lb



## Helios PTFE Thread

Manufactured by Coats, the same company responsible for our Heminway & Bartlett thread, Helios PTFE thread is manufactured from high-quality raw materials and is constructed in a manner that allows for easy sewing in most sewing machines. PTFE is extremely resistant to UV, pollutants, cleaning solutions and will easily survive years in the harsh marine environment. Coats will match the guarantee for Helios thread to the guarantee of whatever cloth the thread is stitched into.

PART	DESCRIPTION	WGT	SIZE	COLOR	LB/SPL	ORDER BY
VHL150W	Helios Thread	Std	V147	White	1/2	1/2 lb
VHL150BK	Helios Thread	Std	V147	Black	1/2	1/2 lb
VHL200W	Helios Thread	Hvy	V207	White	1/2	1/2 lb
VHL200BK	Helios Thread	Hvy	V207	Black	1/2	1/2 lb



## Pre-Waxed Sailtwine Bobbins

Round pre-waxed thread in a smaller dose. Perfect for sail repair kits or line whipping.

PART	DESCRIPTION	SIZE	COLOR	BNS/PKG	ORDER BY
V6M	Pre-Waxed Bobbins	V-6-M	White	12	Pkg



## Prewaxed Flat Braided Nylon Sailtwine

Pre-waxed nylon thread lays flatter than regular round thread for a more professional finish. Wider thread also offers a larger surface to reduce tearing in fabric or leather.

PART	DESCRIPTION	DIAMETER	YD/SPL	ORDER BY
VFB1	Prewaxed Sailtwine	1/16"	500	Spools
VFB2	Prewaxed Sailtwine	1/8"	500	Spools



## Easy-Wax No Kink Sailtwine

Raw un-waxed sailtwine is ready to soak-up wax or tar for service and parcelling jobs.

PART	DESCRIPTION	SIZE	QTY/PKG	ORDER BY
VST3	No Kink Sailtwine	3 ply x 1/2 lb	1	Tubes
VST5	No Kink Sailtwine	5 ply x 1/2 lb	1	Tubes
VST7	No Kink Sailtwine	7 ply x 1/2 lb	1	Tubes
VSU3	No Kink Sailtwine	3 ply x 1 oz	1	Tubes
VSU5	No Kink Sailtwine	5 ply x 1 oz	1	Tubes
VSU7	No Kink Sailtwine	7 ply x 1 oz	1	Tubes



## Sailmakers 100% Pure Beeswax

Premium quality 100% beeswax is great way to keep your thread from kinking or unravelling. Actual weights may vary.

PART	DESCRIPTION	SHAPE	WEIGHT/PKG	ORDER BY
VWL	Sailmakers Wax	Cups	1 oz	Oz



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**CHALLENGE  
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**Braided Leechline**

*Prestretched Dacron. Low elongation.*



PART	DESCRIPTION	DIA	COLOR	FT/ REEL	ORDER BY
L40	#40 Braided Leechline	3/64"	White	1000	Reels
L50	#50 Braided Leechline	1/16"	White	1000	Reels
L205	#205 Braided Leechline	5/64"	White	1000	Reels
L505	#505 Braided Leechline	1/8"	White	1000	Reels
L805	#805 Braided Leechline	5/32"	White	1000	Reels

**New England Pre-Stretch Leechline**

*Designed to be hard wearing, flexible and provide low extension at high loads. Made of continuous filament polyester core and polyester cover.*



PART	DESCRIPTION	DIA	COLOR	FT/ REEL	ORDER BY
LF5	Pre-Stretch Leechline	5/32" (4 mm)	Natural	600	Reels
LF6	Pre-Stretch Leechline	3/16" (5 mm)	Natural	600	Reels

**New England Technora® Leechline**

*Solid Technora core with braided polyester cover creates a high strength, low stretch, leechline with minimal creep.*



PART	DESCRIPTION	DIA	COLOR	FT/ REEL	ORDER BY
LT3	Technora Leechline	3/32"	Natural	1500	Reels
LT4	Technora Leechline	1/8"	Natural	1200	Reels
LT5	Technora Leechline	5/32"	Natural	900	Reels

**New England Dyneema® Leechline**

*Strong 12-strand Dyneema construction is light weight and will not absorb water. Pre-stretched for low extension at high loads.*



PART	DESCRIPTION	DIA	COLOR	FT/ REEL	ORDER BY
LS3	Dyneema Leechline	7/64" (3 mm)	White	600	Reels
LDS4	Dyneema Leechline	1/8" (4 mm)	Gray	600	Reels
LDS6	Dyneema Leechline	3/16" (5 mm)	White	600	Reels

• Available in Black, Red, Blue, and Lime. Please allow extra lead time.

**Dyneema Whipping Twine / Light Leechline**

*This lightweight but incredibly strong line can be used either as ultra-durable whipping twine or lightweight, low-stretch leechline for dinghies, spinnakers and various other applications. Sold in 164 foot reels for smaller jobs.*



PART	DESCRIPTION	DIA	COLOR	FT/ REEL	ORDER BY
LDS1	Dyneema Leechline	3/64" (1 mm)	White	164	Spool





## Soft Nylon Bag Cord

Excellent low cost option for sail bags and other lower load applications. Soft finish is easy on hands.

PART	DESCRIPTION	DIA	COLOR	FT/ FREEL	ORDER BY
LC3	Soft Texturized Nylon Bag Cord	5/32"	White	3000	Reels
LC4	Soft Texturized Nylon Bag Cord	1/4"	White	1000	Reels
LC6	Hard Filament Nylon Bag Cord	3/16"	White	1100	Reels



## Barrel Lock

Plastic spring-loaded barrel locks. Great for draw-string type bags and many other uses.

PART	DESCRIPTION	MAX DIA	QTY/ PKG	ORDER BY
FBK	Black Barrel Lock	1/4"	50	Each



## 3-Strand Spun Dacron Rope

Special Soft-Spun polyester is designed to offer good stretch and excellent recovery for use in mainsail and genoa luffs.

PART	DESCRIPTION	DIA	COLOR	FT/ REEL	ORDER BY
LR3	3-Strand Dacron Rope	3/16"	White	1200	Reels
LR4	3-Strand Dacron Rope	1/4"	White	1200	Reels
LR5	3-Strand Dacron Rope	5/16"	White	600	Reels
LR6	3-Strand Dacron Rope	3/8"	White	600	Reels
LR7	3-Strand Dacron Rope	7/16"	White	600	Reels
LR8	3-Strand Dacron Rope	1/2"	White	600	Reels



## New England Hard Braided Luffline

Engineered to maintain its round shape under load, this is the perfect rope for use in grooved luff systems or luff tape.

PART	DESCRIPTION	DIA	COLOR	FT/ REEL	ORDER BY
LL04	Hard Braided Luffline	1/8"	Yellow	1800	Reels
LL05	Hard Braided Luffline	5/32"	Orange/Black	1200	Reels
LL06	Hard Braided Luffline	3/16"	Black	2100	Reels
LL07	Hard Braided Luffline	7/32"	Orange	1200	Reels
LL08	Hard Braided Luffline	1/4"	Yellow/Black	1800	Reels
LL09	Hard Braided Luffline	9/32"	Yellow/Orange	1500	Reels
LL10	Hard Braided Luffline	5/16"	Orange/Black	1200	Reels
LL12	Hard Braided Luffline	3/8"	White	600	Reels



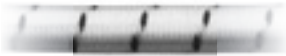
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**Shockcord**

*Synthetic multi-stranded rubber core is covered by a nylon jacket, making this shockcord very stretchy and quite durable.*



PART	DESCRIPTION	DIA	COLOR	FT/ REEL	ORDER BY
YSH2	Shockcord	1/8"	White	300	Reels
YSH2BK	Shockcord	1/8"	Black	300	Reels
YSH3	Shockcord	3/16"	White	150	Reels
YSK3	Shockcord	3/16"	Black	150	Reels
YSH3-5	Shockcord	3/16"	White	500	Reels
YSH4	Shockcord	1/4"	White	150	Reels
YSH4-5	Shockcord	1/4"	White	500	Reels
YSH5	Shockcord	5/16"	White	150	Reels
YSH6	Shockcord	3/8"	White	100	Reels
YSH6BK	Shockcord	3/8"	Black	150	Reels

**Shockcord Clamps**

*Stainless steel clamps (also known as "hog rings") provide a quick and positive means of seizing shockcord. Clamps can be closed with pliers but we recommend using our Shockcord Pliers listed below.*



PART	DESCRIPTION	SIZE	FOR DIA	QTY/ PKG	ORDER BY
YSC1	Shockcord Clamps	X00	1/8" – 3/16"	100	Pkg
YSC2	Shockcord Clamps	X0-X1	1/4" – 5/16"	100	Pkg
YSC3	Shockcord Clamps	X2-X4	3/8" – 1/2"	100	Pkg

**Pliers for Seizing Shockcord Clamps**

*Specifically designed for seizing shockcord clamps, these pliers have special cupped ends to hold the shockcord clamp securely for a safer, more consistent installation.*



PART	DESCRIPTION	SIZE	FOR DIA	QTY/ PKG	ORDER BY
LSHP	Shockcord Clamp Pliers	1 Size	All	1	Each



## Weblon 2-Fold Bindings

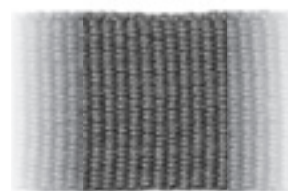
PART	DESCRIPTION	COLOR	WIDTH	YD/ REEL	ORDER BY
YREB417	Weblon Binding	White	1"	50	Reels
YREB439	Weblon Binding	Ivory	1"	50	Reels
YREB258	Weblon Binding	Black	1"	50	Reels



## Sunbrella Binding

*Straight binding with a soft finish; conforms easily to curves and corners.*

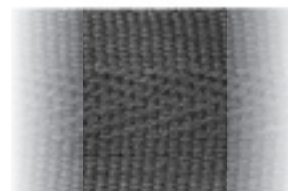
PART	DESCRIPTION	COLOR	WIDTH	YD/ REEL	ORDER BY
CB01	Sunbrella Binding	Pacific Blue	3/4"	100	Reels
CB04	Sunbrella Binding	White	3/4"	100	Reels
CB08	Sunbrella Binding	Black	3/4"	100	Reels
CB21	Sunbrella Binding	True Brown	3/4"	100	Reels



## Centerfold Sunbrella Binding

*Folds naturally in center due to special weave. Handles similar to bias binding.*

PART	DESCRIPTION	COLOR	WIDTH	YD/ REEL	ORDER BY
CC01	Centerfold Sunbrella Binding	Pacific Blue	7/8"	200	Reels
CC04	Centerfold Sunbrella Binding	White	7/8"	200	Reels
CC08	Centerfold Sunbrella Binding	Jet Black	7/8"	200	Reels
CC21	Centerfold Sunbrella Binding	True Brown	7/8"	200	Reels
CC24	Centerfold Sunbrella Binding	Sky Blue	7/8"	200	Reels
CC28	Centerfold Sunbrella Binding	Toast	7/8"	200	Reels
CC26	Centerfold Sunbrella Binding	Navy	7/8"	200	Reels
CC30	Centerfold Sunbrella Binding	Gray	7/8"	200	Reels
CC31	Centerfold Sunbrella Binding	Burgundy	7/8"	200	Reels
CC37	Centerfold Sunbrella Binding	Forest Green	7/8"	200	Reels
CC41	Centerfold Sunbrella Binding	Sapphire Blue	7/8"	200	Reels
CC46	Centerfold Sunbrella Binding	Navy	7/8"	200	Reels



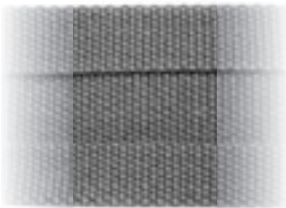
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**Double-Fold Acrylic Binding**

*Straight-cut binding made from Sunbrella fabric, slit down with edges hard-folded over to a finish width of 3/4". Sew on edges to create a fine finished look that won't fray.*



PART	DESCRIPTION	COLOR	WIDTH	YD/ REEL	ORDER BY
C400	Double-Fold Acrylic Binding	Erin Green	3/4"	100	Reels
C401	Double-Fold Acrylic Binding	Pacific Blue	3/4"	100	Reels
C402	Double-Fold Acrylic Binding	Yellow	3/4"	100	Reels
C404	Double-Fold Acrylic Binding	White	3/4"	100	Reels
C406	Double-Fold Acrylic Binding	Dubonnet Twd	3/4"	100	Reels
C408	Double-Fold Acrylic Binding	Black	3/4"	100	Reels
C413	Double-Fold Acrylic Binding	Brown	3/4"	100	Reels
C414	Double-Fold Acrylic Binding	Tan	3/4"	100	Reels
C417	Double-Fold Acrylic Binding	Royal Blue	3/4"	100	Reels
C420	Double-Fold Acrylic Binding	Beige	3/4"	100	Reels
C423	Double-Fold Acrylic Binding	Aquamarine	3/4"	100	Reels
C426	Double-Fold Acrylic Binding	Navy	3/4"	100	Reels
C428	Double-Fold Acrylic Binding	Toast	3/4"	100	Reels
C430	Double-Fold Acrylic Binding	Grey	3/4"	100	Reels
C431	Double-Fold Acrylic Binding	Burgundy	3/4"	100	Reels
C433	Double-Fold Acrylic Binding	Linen	3/4"	100	Reels
C437	Double-Fold Acrylic Binding	Forest Green	3/4"	100	Reels
C442	Double-Fold Acrylic Binding	Oyster	3/4"	100	Reels
C446	Double-Fold Acrylic Binding	Captain Navy	3/4"	100	Reels
C452	Double-Fold Acrylic Binding	Mediterranean	3/4"	100	Reels
C453	Double-Fold Acrylic Binding	Mdtrn Twd	3/4"	100	Reels
C467	Double-Fold Acrylic Binding	Mahogany	3/4"	100	Reels
C472	Double-Fold Acrylic Binding	Heather	3/4"	100	Reels
C474	Double-Fold Acrylic Binding	Wheat	3/4"	100	Reels
C478	Double-Fold Acrylic Binding	Marine Blue	3/4"	100	Reels
C479	Double-Fold Acrylic Binding	Ocean Blue	3/4"	100	Reels
C483	Double-Fold Acrylic Binding	Parchment	3/4"	100	Reels

BINDING TAPE



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## Universal Deck Canopy Fittings

Solid plastic base with stainless clamp (included) that pivots from side to side makes a great base for dodgers or biminis.

PART	DESCRIPTION	MATERIAL	QTY/PKG	ORDER BY
F603	Universal Deck Fitting	Stainless & Nylon	50	Each



## End Plus Canopy Fittings

Heavy plastic end fits into 7/8" tubing leaving a stainless eye available to attach to canopy clamps or universal deck base listed above. Fasten with glue, screw or pin.

PART	DESCRIPTION	MATERIAL	QTY/PKG	ORDER BY
F611	End Plus for 7/8" Tubing	Stainless & Nylon	50	Each



## Canopy Tube Clamps

Solid stainless tube clamp for 7/8" tubing with stainless steel counted thread screw.

PART	DESCRIPTION	MATERIAL	QTY/PKG	ORDER BY
F612	Tube Clamp	Stainless	50	Each



## Drill Steady Drill Guide for Stainless Tubing

Extremely useful tool allows easy and accurate drilling of stainless tubing used for frames on dodges and biminis. Designed to be used to a 9/64" drill bit, this guide clamps onto stainless tubing with a durable cast bronze body that will not mar the tubing. Guide has hardened tool steel drill bushing for long life.

PART	DESCRIPTION	SIZE	ORDER BY
TDRILL	Drill Guide	One Size	Each



## Flex-A-Rail

Flex-A-Rail can be curved or bent in any direction, even around sharp corners if softened with a heat gun first. Drill your own screw holes, then fasten to the deck with #6 flat-head phillips screws. Unlike aluminum rail, Flex-A-Rail can be shipped by UPS, even in 100' length quantities. Please inquire for custom lengths orders. Flex-A-Rail fits 8.5 mm Keder Welt shown below.

PART	DESCRIPTION	COLOR	FT/LENGTH	ORDER BY
FLEX	Flex-A-Rail	White	7.5	Lengths
FLEXB	Flex-A-Rail	Black	7.5	Lengths
FLEXS	#6 FH Phillips Screw	Stainless	100/pkg	Pkg



## Keder Welt

A unique construction of heavy duty coated polyester fabric welded to a cord of solid PVC material. Strong, flexible and slippery track welting slides and bends easily through all types of track material, including Flex-A-Rail. Use 8.5 mm size for Flex-A-Rail.

PART	DESCRIPTION	COLOR	DIA	YD/ROLL	ORDER BY
HK75W	Keder Welt	White	7.5 mm	110	Yard
HK75BK	Keder Welt	Black	7.5 mm	110	Yard
HK85W	Keder Welt	White	8.5 mm	110	Yard
HK85BK	Keder Welt	Black	8.5 mm	110	Yard



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**Plastic Cover Hooks & Eyelets With Push-In Fastener**



All plastic cover hooks and matching eyelets attach to material without the need for specialty tools or rivets.

PART	DESCRIPTION	MATERIAL	QTY/PKG	ORDER BY
FPNP107	Push-In Cover Hook	Plastic	100	Each
FPNP108	Push-In Cover Eyelet	Plastic	100	Each

**Plastic Sew-On Cover Hooks & Eyelets**



Sew-on cover hooks and eyelets offer another quick and strong alternative for many canvas products.

PART	DESCRIPTION	MATERIAL	QTY/PKG	ORDER BY
FCE	Sew On Cover Eyelet	Plastic	100	Each
FCH	Sew On Cover Hook	Plastic	100	Each

**Wire Cover Hooks & Backing Plates**



A proven favorite for years. All stainless wire and backing plate can be handsewn on or riveted on for quicker installation.

PART	DESCRIPTION	MATERIAL	QTY/PKG	ORDER BY
FHKS	Wire Cover Hook	Stainless Steel	100	Each
FHKSB	Cover Hook Backplate	Plastic	100	Each

**Plastic Rivet-On Cover Hooks**



Simple basic all plastic cover hook attaches with single 3/16" diameter tubular or semi-tubular rivet.

PART	DESCRIPTION	MATERIAL	QTY/PKG	ORDER BY
FHKP	Rivet-On Cover Hook	Plastic	100	Each

**Plastic Lacing Cover Hooks**



All plastic cover hook designed to be screwed down into solid base with two screws (not included).

PART	DESCRIPTION	MATERIAL	QTY/PKG	ORDER BY
FHL	Lacing Cover Hook	Plastic	100	Each

## Press-N-Snap Tool & Die Set

Portable, for use on boats, quick, for use in plant. Complete with closing tool set for durable dot fasteners.

PART	DESCRIPTION	QTY/PKG	ORDER BY
TPNS	Press-N-Snap Tool & Dies	1	Each
TPNS1	Press-N-Snap Basic Die Set Only	1	Set



## Press-N-Snap Individual Dies

Replacement for lost, worn or damaged dies. Same quality construction as originals.

PART	DESCRIPTION	ORDER BY
TPNS2	Press-N-Snap Button Die	Each
TPNS3	Press-N-Snap Socket Die	Each
TPNS4	Press-N-Snap Eyelet Die	Each
TPNS5	Press-N-Snap Stud Die	Each
TPNS2700	Press-N-Snap Rubber Retainer	Each
TPNS6	#0 Self-Piercing Grommet Die	Each
TPNS7	#1 Self-Piercing Grommet Die	Each
TPNS8	#2 Self-Piercing Grommet Die	Each
TPNS9	#0 Grommet Die	Each
TPNS10	Lift-The-Dot Washer Die	Each
TPNS11	Lift-The-Dot Stud Die	Each

• Other dies available, please inquire. See page 75 for self piercing grommet dies.



## Economy Snap Tool

Good for smaller jobs where an expensive, professional die is not necessary.

PART	DESCRIPTION	ORDER BY
TSNAPD	Economy Snap Tool	Set



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**Hole Cutters for Fasteners**



Specialized hole cutters get the job done quickly with minimal fuss. Choose between Common Sense, Turn Button, or Lift-The-Dot cutters.

PART	DESCRIPTION	FSTNR TYPE	ORDER BY
GF450	Hole Cutter	Common Sense	Each
GF71	Hole Cutter	Turn Button	Each
GF9951	Hole Cutter	Lift-The-Dot	Each
GFAT10	Prong Cutter	4-Prong Turn Button	Each

**Durable-Dot Snap Fastener Caps**



Nickel coated brass is very durable and holds up for years. Choose between nickel coated, black or white enamel caps.

PART	DESCRIPTION	BARREL	MFG #	QTY/PKG	ORDER BY
G128	Nickle Cap	3/16"	X2 10128	100	Pkg
GS128	Stainless Steel Cap	3/16"	--	100	Pkg
G128BK	Black Cap	3/16"	--	100	Pkg
G128W	White Cap	3/16"	--	100	Pkg
G127	Nickle Cap	1/4"	X2 10127	100	Pkg
GS127	Stainless Steel Cap	1/4"	--	100	Pkg

**Durable-Dot Snap Fastener Sockets**



Nickel coated normal action socket is perfect for most snap socket installations.

PART	DESCRIPTION	MFG #	QTY/PKG	ORDER BY
G224	Nickel Coated Socket	XB 10224	100	Pkg
GS224	Stainless Steel Socket	--	100	Pkg





## Durable-Dot Snap Fastener Eyelets

Nickel coated brass eyelets provide a low-profile backing for any Durable-Dot fitting that requires a backing plate.

PART	DESCRIPTION	BRL LENGTH	MFG #	QTY/PKG	ORDER BY
G412	Nickel Coated Eyelet	1/4"	BS 10412	100	Pkg
GS412	Stainless Steel Eyelet	1/4"	--	100	Pkg
G413	Nickel Coated Eyelet	5/16"	BS 10413	100	Pkg
G414	Nickel Coated Eyelet	3/8"	BS 10414	100	Pkg



## Durable-Dot Snap Fastener Studs

Nickel coated brass studs last for years. Choose the standard stud for most applications or the reverse-type for special installations.

PART	DESCRIPTION	MFG #	QTY/PKG	ORDER BY
G370	Nickel Coated Standard Stud	BS 10370	100	Pkg
GS370	Stainless Steel Standard Stud	--	100	Pkg
G342	Nickel Coated Reversible Type Stud	XB 10342	100	Pkg



## Durable-Dot Snap Fastener Screw Studs

The standard studs feature #8 self-tapping phillips screw (choose between brass or stainless steel) for quick installations. The flangeless stud is nickel coated brass with a brass #10 phillips screw designed for applications where through-bolting is required.

PART	DESCRIPTION	SCREW	MFG #	QTY/PKG	ORDER BY
G3623	Stud	#8 Brass 3/8"	XX 10362-L	100	Pkg
GS3623	Stainless Stud	#8 Brass 3/8"	--	100	Pkg
G3625	Stud	#8 Brass 5/8"	XX 10362-L	100	Pkg
GS3925	Stainless Stud	#8 Brass 5/8"	--	100	Pkg
G3933	Stud	#8 SS 3/8"	X8 10393-L	100	Pkg
G3935	Stud	#8 SS 5/8"	X8 10393-L	100	Pkg
G7083	Flangeless Stud	#10 Brass 3/8"	XX 10708-L	100	Pkg
G7085	Flangeless Stud	#10 Brass 5/8"	XX 10708-L	100	Pkg



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**Common Sense Turnbutton Fastener Screw Base Studs**



*This old reliable standard is designed to be either mounted on a fixed surface or backed with washer. Nickel coated brass with internal spring to prevent un-wanted knob spin. Choose between single stud for thinner fabric or double stud for thicker jobs.*

PART	DESCRIPTION	BASE	MFG #	QTY/PKG	ORDER BY
GT322	Single Stud	2 Screw	XB 78322	100	Pkg
GT323	Double Stud	2 Screw	XB 78323	100	Pkg

**Common Sense Turnbutton Fastener Pronged Studs**



*Older style installs quickly on the fly without setting tools. Double stud is taller.*

PART	DESCRIPTION	CLINCH	MFG #	QTY/PKG	ORDER BY
GT332	Single Stud	2 Prong	XB 78332	100	Pkg
GT333	Double Stud	2 Prong	XB 78333	100	Pkg
GT4P	Double Stud	4 Prong	--	100	Pkg
GT507	Clinch Plate	2 Prong	BS 78507	100	Pkg
GT4BP	Clinch Plate	4 Prong	--	100	Pkg

**Common Sense Turnbutton Fastener Stud Screws**



*Nickel coated brass with brass screw for mounting to fixed surfaces. Choose between single or double stud depending on thickness of cloth.*

PART	DESCRIPTION	SCREW	MFG #	QTY/PKG	ORDER BY
GT324	Single Stud	#7 Wood 5/8"	XB 78324-L	100	Pkg
GT325	Double Stud	#7 Wood 5/8"	XB 78325-L	100	Pkg

**Common Sense Turnbutton Fastener Eyelets**



*Strong 4-prong eyelets come in two sizes to match cloth thickness. See page 121 for eyelet cutting tool (GF450, Requires standard or recessed-slot washer listed below).*

PART	DESCRIPTION	PRONGS	MFG #	QTY/PKG	ORDER BY
GT403	Eyelet	Short	BS 78403	100	Pkg
GT404	Eyelet	Long	BS 78404	100	Pkg

**Common Sense Turnbutton Fastener Washers**



*Nickel plated brass washers for use with Common Sense Eyelets listed above. Choose between standard washer or recessed washer for a more profession look.*

PART	DESCRIPTION	MFG #	QTY/PKG	ORDER BY
GT510	Washer w/Recessed Slots	BS 78510	100	Pkg
GT505	Standard Washer	BS 78505	100	Pkg



## Lift-The-Dot Fastener Sockets & Plates

Nickel coated brass fastener features special spring to prevent socket releasing until lifted at the dot on top. Matching backing plate insures a secure fit. See page 121 for special cutting tool GF9951.

PART	DESCRIPTION	MFG #	QTY/PKG	ORDER BY
GL205	Socket	XX 16205	100	Pkg
GL506	Clinch Plate	BS 16506	100	Pkg



## Lift-The-Dot Fastener Press-On Studs & Washers

Press on nickel coated brass stud offers the "cleanest" installation in fabric applications. Requires matching washer and closing tool to close.

PART	DESCRIPTION	TYPE	MFG #	QTY/PKG	ORDER BY
GL358	Press-On Stud	Single Eyelet	XB 16358	100	Pkg
GL509	Press-On Washer	Single Eyelet	BS 16509	100	Pkg



## Lift-The-Dot Fastener Single Studs

Prong style stud and matching washer is easy installation in fabric without the need for special tools.

PART	DESCRIPTION	CLINCH	MFG #	QTY/PKG	ORDER BY
GL349	Single Stud	2 Prongs	BS 16349	100	Pkg
GL501	Single Stud Washer	2 Prongs	BS 16501	100	Pkg



## Lift-The-Dot Fastener Studs

Best choice for installing studs into solid surfaces. Choose between machine screw for through-bolting or self-tapping screws for situations where through bolting is not desired.

PART	DESCRIPTION	SCREW	MFG #	QTY/PKG	ORDER BY
GL362	Stud	#8 Machine 3/8"	XB 16362-L	100	Pkg
GL3173	Stud	#8 Wood 3/8"	XB 16317 72A	100	Pkg
GL3175	Stud	#8 Wood 5/8"	XB 16317 72A	100	Pkg



## Lift-The-Dot Fastener Windshield Clips

Designed to attach to many marine window frame moldings. Simply snap on and go.

PART	DESCRIPTION	FITS	MFG #	QTY/PKG	ORDER BY
GL6376	Windshield Clip	3/4" Molding	X816376	100	Pkg
GL6377	Windshield Clip	7/8" Molding	X816377	100	Pkg



**YKK® SNAD® (SNap Adhesively Attached) Fasteners**

A revolutionary new way to secure canvas, cushions, carpeting, covers to any hard substrate. SNADs use a pad of 3M's VHB acrylic foam adhesive that enables application of snap studs or sockets without having to drill any holes! VHB adhesive has 20 years of use in marine and other extreme environments and produces an extremely strong bond to any smooth substrate such as gelcoat, varnished wood, painted metals, polished metals, anodized aluminum, etc. Two versions, 40 mm diameter for attachment on flat surfaces and a 25 mm version with silicone rubber flexible base for attachment to rounded surfaces. Both versions will not deteriorate from exposure to sunlight, sand or grit. No tools, no holes, just clean the surface, peel the backing and stick!

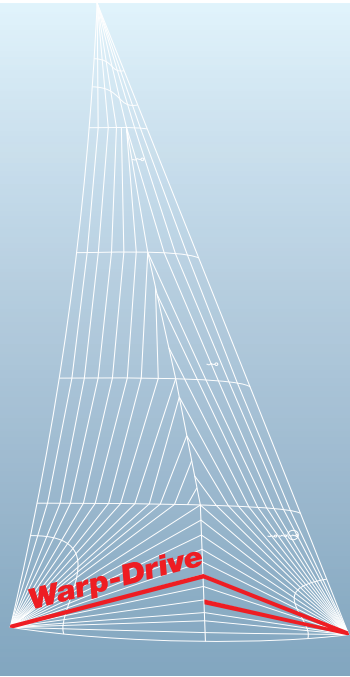


PART	DESCRIPTION	DIA	COLOR	QTY/PKG	ORDER BY
YSNADSTD	Adhesive Stud	40 mm	White	25	Each
YSNADSTDBK	Adhesive Stud	40 mm	Black	25	Each
YSNADSKT	Adhesive Socket	40 mm	White	25	Each
YSNADSKTBK	Adhesive Socket	40 mm	Black	25	Each
YSNADFLEX	Adhesive Flexible Stud	25 mm	White	25	Each
YSNADFLEXGY	Adhesive Flexible Stud	25 mm	Gray	25	Each
YSNADFLEXBK	Adhesive Flexible Stud	25 mm	Black	25	Each



# CHALLENGE SAILCLOTH

by Bainbridge and Cronburg



## WARP DRIVE (left)

1st Dacron with Straight Warp Yarn  
"The most significant development  
in Woven Sailcloth in years."

## NEW POLYMAX FIBER (top photos)

30% Higher Breaking Strength Helps Power  
Ericsson 4 to Victory, Puma to Second, and  
others to pass the Ultimate Sail Stamina Test

## Fiber 104™

Best Sailcloth Fiber  
(bottom photos)

## FIBERMAX 64 PLUS (right)

"A Better Fiber... After UV exposure,  
Fibermax 64 Plus averages 35%  
stronger than standard 1.5 oz"

### Challenge Sailcloth, Inc.

104 East Main Street  
P.O. Box 716  
Vernon, CT 06066, USA  
Phone: 860-871-8030  
Toll Free: 800-962-4499  
Fax: 860-872-0881  
us@challengesailcloth.com

### Challenge Sailcloth West

711 West 17th Street, E-4  
Costa Mesa, CA 92627, USA  
Phone: 949-722-7448  
Toll Free: 800-423-6750  
Fax: 949-722-2961  
uswest@challengesailcloth.com

### France

Soromap V.M.G  
Z.I. de Beligon  
17300 Rochefort  
Phone: +33 (0) 546878480  
Fax: +33 (0) 546878889  
voilerie@soromap.com  
Non-Exclusive Distributor

### Challenge Germany

Gras Transpack GmbH  
Rudolf-Diesel-Strasse 29-31  
56751 Polch  
Phone: +49 (0) 2654987718-0  
Fax: +49 (0) 2654/987718-19  
kschmidt@transpack.de  
de@challengesailcloth.com

### United Kingdom

Kayospruce, Ltd  
2 Cockerell Close,  
Segensworth West  
Fareham, Hampshire PO 15 5SR  
Phone: +44(0) 1489 581 696  
Fax: +44(0) 1489 573 489  
kayospruce@sailcloth.co.uk

### New Zealand

Shann NZ Ltd  
14 Saunders Place  
Avondale - Auckland 1026  
Phone: +64 9 8200780  
Fax: +64 9 8200785  
info@shann.co.nz

### Norway

Lorentzen & Lorentzen AS  
Neslia 1  
1344 Haslum  
Phone: 0047 67 10 25 60  
Fax: 0047 67 10 25 61  
paal@lorentzen.com

### Australia

Shann Australia  
11 Marianne Place  
Minchinbury NSW 2770  
Phone: +61 (2) 9832 7000  
Fax: +61 (2) 9832 7100  
nswsales@shann.com.au  
www.shann.com.au

### Italy

Sacloma  
Sede: Via Cisa Sud, 125  
19037 S. Stefani Di Magra  
La Spezia  
Phone: +39 (0) 187630603  
Fax: +39 (0) 187633264  
sacloma@sacloma.com

[www.challengesailcloth.com](http://www.challengesailcloth.com)