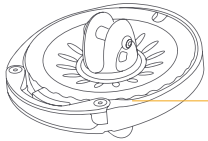
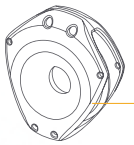
ONE STEP AHEAD

ENGLISH

KARVER
sailing experience



FURLERS - P4/5



LASHING BLOCKS - P14/15

JAMMERS & DECK GEAR

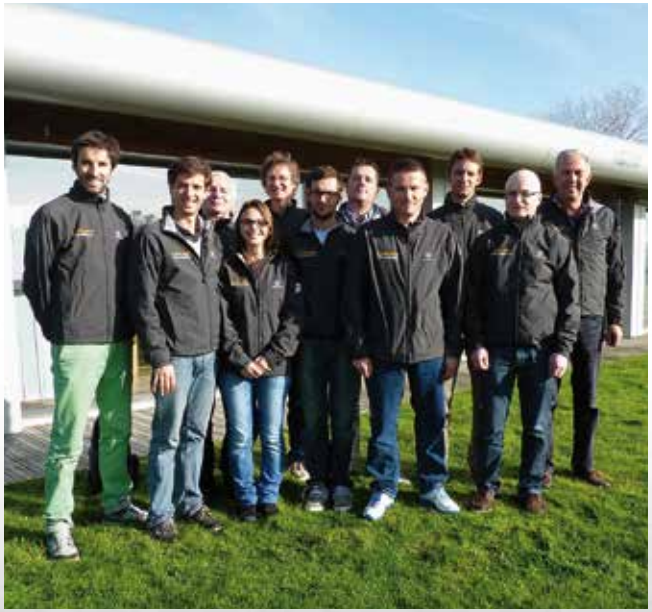
MAIN SAIL TRACK AND CAR SYSTEMS

CRUISING

RACING

SUPER YACHT

KARVER sailing experience



Karver's team in front of our office

Since the company's inception, Karver's ambition remains the same: to design and engineer systems that contribute to improving boat handling, that are more reliable, lighter and easier to use.

Today; amateurs and as well as the best professional sailors trust the efficiency of Karver's innovations – this makes us extremely proud.

Our new KJ rope clutches have been endorsed by the skippers and unanimously voted number one by the sailing media. Our wide range of products now allows us to offer a unique deck layout that offers more Karver solutions than ever before.

Do not hesitate to visit our website often to keep up to date with our new products and innovations.

Thank you for your trust and fair winds,

Marin Clausin, CEO

KF

FURLERS

© Karver Systems

KSF

TOP DOWN SPINNAKER FURLERS

© C. Breschi - GDF SUEZ

KFx

STRUCTURAL FURLERS

© Sealaunay - MC² 60 McConaghy Boats

FURLERS

MAKE SAIL HANDLING EASIER AND IMPROVE YOUR BOAT'S PERFORMANCE

ACTION ON

YouTube .com/KarverSailing

THE FIRST FURLER WITH A DRUM LOCKABLE FROM THE COCKPIT *

This unique drum locking mechanism:
- Prevents the sail accidently unfurling.
- Removes the need for clutches on the furling line.

UNIQUE DRUM LOCKING MECHANISM

FURLING: Pull on the endless line to furl.(If one accidently releases the furling line the mechanism locks automatically).

UNFURLING: To unlock the drum, just tug a little on the line in the same direction as the sail was furled which releases the lock and enables the sail to unfurl.

QUICK USE CAPTIVE PINS

Quick fit mechanism to connect the cable to the furler swivel and drum.

The furler drum is provided with a snap shackle up to and including KF5.

HR shackle is standard on the swivel up to and including KF5.

EXTREMELY LIGHT AND COMPACT

Our new range is 35% lighter and more compact than the competition. Swivel light weight decreases impact on the mast when hoisting and lowering the sail.

COMPOSITE SPOOL

Unlike metallic drums, the composite spool around the drum is shock absorbent and protects the drum, the sail and the deck from impacts.

SUPER LOW FRICTION BEARINGS

KF range low friction bearings have been specifically designed for our furlers with high tech materials.

Furling has never been made easier.

CONTINUOUS LINE INSTALLATION

Easy and quick engagement of the continuous line with no tools required.

Karver invented the concept where the endless line is installed within seconds and stays secured on the drum.

DRUM LOCKING MECHANISM

The mechanism is reliable and installed with a fuse. If the maximum load is exceeded, the mechanism unlocks automatically. The drum then works like a traditional continuous line furler.

The locking mechanism can be removed at anytime if the lock is not required.

WHY CHOOSE A KARVER FURLER?

- The furler is a light and removable system to quickly launch the foresails on your sailboat.
- The furled sail is easier to handle, and can be readily stored below out of the way.
- The same furler can usually be used for several sail: gennakers, stormsails, staysails, etc and more recently on spinnakers.

BOAT LENGHT	STORM SAIL	CODE 0	GENNAKER	ASY SPINNAKER
max 26'	KF1	KF1	KF1	KSF1
max 39'	KF2	KF2	KF1	KSF2
max 48'	KF5	KF5	KF2	KSF5
max 65'	KF8	KF8	KF5	KSF8
max 85'	KF12	KF12	KF8	KSF12
> 85'	Call us			

Furlers recommandations.
Furler model could depend from boat size or weight, sail area, navigation programs. for further information or in case of doubt, please contact us.

*(patented)

FURLERS
PURE SIMPLICITY

Whether you're cruising or racing, Karver KF Furlers will make sail handling easier for you!

Available for boats from 20 foot cruisers up to 150 foot superyachts.

KF furlers feature Karver's unique drum locking mechanism

which operates from the safety of the cockpit.

© Karver Systems

NEW

Redesigned rope guide

SAFETY FEATURES

- Locking mechanism of the drum from the cockpit (Patented).
- Breaking load over twice the safe working load.
- Swivel lightness decreases impacts in the mast when hoisting/lowering the sail.

EFFICIENCY

- Quick fitting mechanism for the sail.
- Quick fitting mechanism to the deck and halyard.
- Captive parts.
- Quick engagement of the continuous line.

ERGONOMICS

- Composite spool around the drum to protect the drum, the sail and the deck from impacts.
- Closed structure of the drum prevents fingers from getting caught during operation.

PERFORMANCE

- Extremely light.
- Unequally compact.
- Low friction bearings.

EXTREME RACING OR PEACEFUL CRUISING, YOU CAN NOW MAKE SAIL HANDLING SAFER!

KF RANGE	REFERENCE	WORKING LOAD * (T)	WEIGHT (g)	CONTINUOUS LINE DIAMETER (mm)	DRUM DIAMETER (mm)	HEIGHT SWIVEL + DRUM (mm)	DRUM ONLY REFERENCE	SWIVEL ONLY REFERENCE
KF1 eco	PF100000 [ECO]	1.5	420	6	88	97	PF100010 [ECO]	PF100020 [ECO]
KF1	PF100000	1.5	497	6	111	90	PF100010	PF100020
KF2	PF090000	2.5	829	8	150	111	PF090010	PF090020
KF5	PF080000	5	1570	10	175	138	PF080010	PF080020
KF8	PF110000	8	2200	10	212	171	PF110010	PF110020
KF10	PF030000 [10]	10	3087	10	212	198	PF030010 [16]	PF030020 [10]
KF12	PF030000	12	2300	10	212	205	PF030010	PF030020

*The breaking loads of our KF furlers are equivalent to twice their working loads.

NEW

Our KF Furling units are sold with a protective storage neoprene bag.

SPINNAKER FURLERS
FURL YOUR SPINNAKER!

KSF top down furler is READY TO HOIST IN SECONDS!

Unlike traditional code sail furling, spinnaker furling starts from the top of the sail.

The tack swivel on KSF furler makes sure the furling is safe and does not damage the spinnaker.

Available for boats from 20 foot cruisers up to superyachts, KSF furlers have a unique drum locking mechanism operated from the cockpit to make the process even easier.

NEW

Redesigned rope guide

The torsional furling cable is independent from the spinnaker. The sail starts furling from the top and finishes at the tack, aptly named "top-down furler".

SAFETY

Furling can be safely done single handed from the cockpit!

PERFORMANCE

The tack line can be adjusted from the cockpit to fine tune spinnaker position and shape.

Once the luff is tensioned, the furling is more efficient enabling users to drop the sail faster.

UNIVERSAL

The same furler can be interchanged to use with the full inventory of sails:
Code sail, staysail, or asymmetrical spinnaker.

LIGHT WEIGHT

The only piece added compared to a standard KF drum is the independent swivel on the top, which helps to keep the system light.

FURLING OF THE SPINNAKER IN 3 STEPS

Sail unfurled

Furling starts from the top

The sail is ready to be dropped

Torsional Furling Cable not included

Safety and performance: furl them all!

KSF RANGE	REFERENCE	WORKING LOAD * (T)	TACK SWIVEL WORKING LOAD**	WEIGHT (g)	CONTINUOUS LINE DIAMETER (mm)	DRUM DIAMETER (mm)	HEIGHT (mm)	DRUM ONLY REFERENCE	SWIVEL ONLY REFERENCE	TORSIONAL FURLING CABLE (option)
KSF1	PF100000 [SPI]	1,5	0,5	582	6	111	106	PF100010 [SPI]	PF100020	CABLE [KSF1]
KSF2	PF090000 [SPI]	2,5	1	950	8	144	128	PF090010 [SPI]	PF090020	CABLE [KSF2]
KSF5	PF080000 [SPI]	5	1,5	1985	10	166	146	PF080010 [SPI]	PF080020	CABLE [KSF5]
KSF8	PF110000 [SPI]	8	3	2690	10	207	183	PF110010 [SPI]	PF110020	X
KSF8Re	PF100000 [SPIRE]	8	6	3250	10	207	196,7	PF110010 [SPIRE]	PF110020 [SPIRE]	X
KSF10	PF030000 [SPI10]	10	6	4122	10	207	212	PF030010 [SPI10]	PF030020 [SPI10]	X
KSF12	PF030000 [SPI]	12	10	2950	10	214	248	PF030010 [SPI]	PF030020	X

** Furler used without tack swivel.

*The breaking loads of our KF furlers are equivalent to twice their working loads.

STRUCTURAL FURLERS
HIGH TECHNOLOGY!

Under its sleek figure lies a wealth of technology.

Installed for 10 years on ocean racing yachts.

KFx structural furlers are the perfect balance of performance and safety.

Installed with a structural anti-torsion stay, it replaces a traditional forestay or inner stay.

The latest Karver furling showcase:
- 8 months of Research & Development.
- Hundreds of numerical simulations.
- Dozens of prototypes.
- Many tests on various bearing types (ceramic, titanium, beryllium bronze, HR steel, etc.).

The result is a line of furling units that are compact, light and offer the best performance and ease of use. Karver is proud to be the benchmark in this category and is still unmatched by its competitors.

Our range of furling systems fit boats from 6 to 90 meters.

KFx12

WORKING LOAD
12 T

WEIGHT
1960 g !

KARVER ADVANTAGES

- Most compact system
- Light weight.
- Locking mechanism from the cockpit.
- Low friction bearing.
- Carbon fibre spool available.

NEW

Low friction
A Karver exclusive: our low friction bearings have been engineered using composites materials from the aerospace industry.

© Sealaunay - MC² 60 McConaghy

Single line drum Available from KF8

© Da Lamotte - Initiatives Coeur

KF/KSF/KFx OPTIONS
CUSTOMISE YOUR FURLER!

GDF SUEZ, a leader in the competitive racing Class 40 fleet, is fully equipped with Karver

Tylaska Snap Shackle
Available for KF5 and KF8

Single Strop
Available for KF8 and KF12

2:1 / 3:1 Block
Available for all Karver furlers

Lashing Thimble
Available for all Karver furlers

Halyard Swivel
Available for KF1, KF2 and KF5

Carbon spool
Available from KF8

2:1 Friction Sheave
Available from KF1

3:1 Friction Sheave
Available from KF2

Lashing Eye
Available from KF5

Continuous line
Available for all Karver furlers

KF OPTIONS	TYLASKA SNAP SHACKLE REFERENCE	SINGLE STROPE REFERENCE	2:1 / 3:1 BLOCK	LASHING TIMBLE REFERENCE (reference for 1)	2:1 FRICTION SHEAVE REFERENCE	3:1 FRICTION SHEAVE REFERENCE	LASHING EYE REFERENCE	CONTINUOUS LINE REFERENCE	HALYARD SWIVEL REFERENCE	CARBON SPOOL
KF1	X	X	PF100030	PL103776	X	X	X	PF101231	PF100020 [ETARQ]	X
KF2	X	X	PF090030	SF090410	PF091590	PF091592	CUSTOM	PF091232 [KF2]	PF090020 [ETARQ]	X
KF5	PF080040 [TY]	X	PF080030	PF080050	PL080812	PL081095	CUSTOM	PF081233 [KF5]	PF080020 [ETARQ]	X
KF8	PF110040 [TY]	PF110040 [SS]	PF110030 ALU	PF110050	PL110995	PL110452	DE SERIE	MP081233	X	PF030060
KF12	X	PF030040 [SS]	PF030030	CUSTOM	CUSTOM	PL030396	DE SERIE	MP081233	X	PF030060

FURLING-LOCKS SWIVEL
IMPROVE PERFORMANCE

The KFH halyard locks have been tried and tested for many years in the world's toughest oceans.

Halyard stretch is a major factor in the loss of performance in upwind sails.

The KFH eliminates stretch and creep ensuring your halyard is at perfect hoist everytime and also reduces mast compression.

The KFH combines a lock and a swivel to be used with a furling drum.

NEW

Positioning Electronic sensor (optional).

SAFETY

Once locked, the halyard is not tensioned anymore. The compression in the mast is halved and halyard wear is minimised.

LIGHT WEIGHT

The luff is tensioned from the bottom of the drum with a block, eliminating the need for a 2:1 halyard set up.
It is also possible to use a smaller and lighter halyard as it only carries the weight of the sail.

SIMPLICITY

Once unlocked, only the lightest part of the mechanism remains on the top of the mast, the furling-lock is on deck leaving no moving parts aloft, making it easy to service.

ERGONOMICS

Only one line required as the halyard hoists, engages and releases the lock with mechanical simplicity.

APPLICATION EXAMPLES

GENNAKER/LIGHT GENOA:

As most standard sailing yachts do not include a mast equipped with 2:1 halyard purchase for foresails, it becomes easy to have a powerful Gennaker or light Genoa using an accurate setting.

STAYSAIL:

A better solution than a fixed furler. The sail can be furled and easily stored, leaving the foredeck uncluttered and the genoa free to tack. Upwind performance is unaffected.

Stay tensioned from below using friction sheave

HOW DOES IT WORK?

1 To lock:
Hoist the sail until the first stop engages. The furling-lock becomes a standard top swivel: just unfurl and enjoy your sail.

2 To unlock:
Simply re-tension the halyard until the second stop. The sail can now be lowered.

Package KFH+: Hook KFH + Drum + 2:1 block

KFH RANGE	REFERENCE	WORKING LOAD * (T)	WEIGHT (g)	CONTROL HALYARD MAX DIAMETER (mm)	HEIGHT (mm)	COMPLETE SYSTEM KFH+ REFERENCE
KFH1	PF550020 [KFH]	1	180	5	100	PF550000
KFH2	PF480020 [KFH]	2,5	450	7	141	PF480000
KFH5	PF470020	5	920	7	154	PF470000
KFH8	PF410020	8	833	8	155	PF410000
KFH12	PF400020	12	2200	10	212	PF400000

*The breaking loads are equivalent to twice their working loads.

NEW

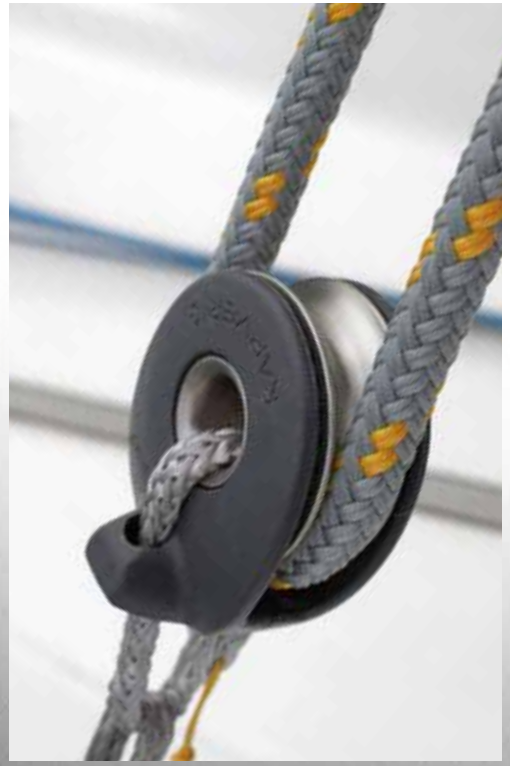
Halyard Lock KHL2 (without swivel):
Hoist and lock all sails up the mast!

ACTION ON

YouTube
.com/KarverSailing

KBO

Rope LASHING BLOCKS



© Karver Systems

KB

VERSATILE BLOCKS

© Jacques Vapillon

KBR

HIGH LOAD BLOCKS

© Karver Systems

LASHING BLOCKS FAST ATTACHMENT

PERFORMANCE AND SAFETY!

ACTION ON

YouTube .com/KarverSailing

FEATURES AND BENEFITS

SAFETY FEATURE

Karver rope lashing blocks are far safer than traditional blocks

LOW FRICTION

High working load and low friction ratio (titanium and ceramic roller bearings) Karver blocks are the lightest and most efficient on the market.

DESIGN

Karver block design has been simplified to the max to be used by everybody from the hard core racer to the weekend cruiser.

UNIVERSAL

Karver now offers the widest range of lashing blocks for boats from 2 to 70 meters

WHY CHOOSE KARVER'S LASHING BLOCKS?

Modern rope technologies have enabled sailors to replace metal connections with soft lashings to enable higher working loads.

MODEL	KBO	KB	KBR
SIDE PLATES	KBO1 to 8: Plastic + fibre KBO10 to 14: Aluminium alloy	KB6 and KB8: Plastic + fibre KB10 to KB14: Aluminium alloy	Carbon fibre
SIDE BALL BEARINGS	POM from KBO8	No	Ceramic
CENTRE ROLLER BEARINGS	PEEK	PEEK	Titanium
ROPE SHACKLE INCLUDED	Up to KBO30	Optional	Optional
WOOD OPTION	Up to KBO8	No	Yes
FRICTION RATIO	5 to 7%	5 to 7%	2%
INSTALLATION	Easy	Rope-work required	Rope-work required
DOUBLE AND TRIPLE OPTION	Up to KBO8	With link	No
RATIO WEIGHT TO SWL	★ ★	★	★ ★ ★
COST	★ ★ ★	★ ★	★

ROPE LASHING BLOCKS
SAIL LIGHTER!

The rope shackle will never seize due to the load or rust over the years.

KBO lashing blocks have the best size to weight ratio on the market.

KBO rope lashing makes fitting easier and quicker than standard shackles.

FAST ATTACHMENT

The rope shackle is included with the block up to KB030.

SIMPLICITY

Easy fitting from the lashing guide and rope shackle attachment simplifies the use of the KBO block.

LIGHT WEIGHT

The design and material optimisation make the block extremely light.

PERFORMANCE

The KBO block features a two stage bearing system from the KB08 to enhance low friction.


© Karver Systems


© Q-and-K


© Equipe de France Olympique

KBO RANGE	REFERENCE	WORKING LOAD * (Kg)	WEIGHT (g)	MAX. LINE DIAMETER (mm)	SHEAVE DIAMETER (mm)	CORRESPONDING ROPE SHACKLE REFERENCE	CORRESPONDING GUIDE REFERENCE
KB01	PF830030	150	10	6	22,5	MP551865	X
KB01 DOUBLE	PF830030 - D	250	17,5	6	22,5	MP553117	X
KB01 TRIPLE	PF830030 - T	350	25	6	22,5	MP553118	X
KB02	PF790030	220	26	8	32	MP551701	X
KB02 DOUBLE	PF790030 - D	350	50	8	32	MP553119	X
KB02 TRIPLE	PF790030 - T	450	72	8	32	MP553120	X
KB04	PF650030	400	27	8	32	MP551701	X
KB04 DOUBLE	PF650030 - D	650	66	8	32	MP553119	X
KB04 TRIPLE	PF650030 - T	900	84	8	32	MP553120	X
KB06	PF800030	600	46	10	38	MP551148	X
KB06 DOUBLE	PF800030 - D	950	103	10	38	MP553121	X
KB06 TRIPLE	PF800030 - T	1300	148	10	38	MP553122	X
KB08	PF890030	850	80	12	47	MP551148	X
KB08 DOUBLE	PF890030 - D	1300	148	12	47	MP553123	X
KB08 TRIPLE	PF890030 - T	1800	213	12	47	MP553124	X
KB010	PF660030	1200	83	12	52	MP551148	PL662127
KB015	PF670030	1800	138	14	63	MP551149	PL672254
KB020	PF680030	2600	186	14	74	MP551149	PL682261
KB030	PF690030	3500	334	16	97	MP551150	PL692262
KB050	PF810030	5000	610	18	123	X	X

*The breaking loads are equivalent to twice their working loads.

KBO4

WORKING LOAD
400 Kg

WEIGHT
27 g !

THE KBO COMPARED TO ITS COMPETITION– A NO COMPROMISE CONCEPT!

A KBO is lighter and smaller for the same safe working load. Featuring roller bearings (from the KBO4 up) and rope shackle attachment, the block is lighter and more compact.

KB01 to KB08

KB010 to KB050

DOUBLE AND TRIPLE LASHING BLOCKS
LIGHTER PURCHASE SYSTEMS

Enjoy the KBO benefits by tuning your deck gear.

The KBO range is available in double and triple blocks with rope shackle attachments up to the KBO8

The use of soft attachments avoids metallic connections between blocks and allows for impressive weight savings.

Purchase systems efficiency is achieved through low friction ball and roller bearings.

Attachment through the centre still prevents the line from becoming disconnected from the lashing line should the block fail under extreme load.

KBO6 double

WORKING LOAD **950 Kg**

WEIGHT **103 g !**

KBO4 triple

WORKING LOAD **900 Kg**

WEIGHT **84 g !**

NEW

Triple block with cam-cleat

© Jon Pegg Allspars / Mills 39 Dignity

© Kanver Systems

KBO RANGE	REFERENCE	WORKING LOAD * (T)	WEIGHT (g)	MAX. LINE DIAMETER (mm)	SHEAVE DIAMETER (mm)
KB06J	PF800030 [TKJ3]	800	348	10	38

*The breaking loads are equivalent to twice their working loads.

KBO FB

FOOT BLOCK
MINIMUM DIMENSIONS

Karver technology screwed** to the deck!

KBO FB RANGE	REFERENCE	WORKING LOAD * (Kg)	WEIGHT (g)	MAX. LINE DIAMETER (mm)	SHEAVE DIAMETER (mm)
KBO FB 2	PF790030[FB]	220	25	8	32
KBO FB 4	PF650030[FB]	400	27	8	32
KBO FB 6	PF800030[FB]	600	46	10	38
KBO FB 8	PF890030[FB]	800	80	12	47

NEW

KBO2 to KBO8 foot block

KBO FB RANGE	REFERENCE	WORKING LOAD * (Kg)	WEIGHT (g)	MAX. LINE DIAMETER (mm)	SHEAVE DIAMETER (mm)
KBO FB 10 FB	PF660030 -FB	1200	114	12	52
KBO FB 15 FB	PF670030 -FB	1800	196	14	63
KBO FB 20 FB	PF680030 -FB	2600	261	14	74
KBO FB 30 FB	PF690030 -FB	3500	482	16	97

*The breaking loads are equivalent to twice their working loads - ** Screws included

KBO W

Attached through the centre, the Karver ratchet block is the only block in which the ratchet can work in either direction.

RATCHET BLOCK
REVERSIBLE

Nevermind which way you pass the line through the block!

KBO W RANGE	REFERENCE	WORKING LOAD * (Kg)	WEIGHT (g)	MAX. LINE DIAMETER (mm)	SHEAVE DIAMETER (mm)
KBO W	PF760030	300	65	10	55

*The breaking loads are equivalent to twice their working loads.

PERFORMANCE

The sheave locking mechanism is simple and reversible; precise sheet controle due to 30 lock positions on the sheave inside diameter.

LIGHT WEIGHT AND STRONG

Reinforced composite fibre and soft attachment enable the KBOw to feature an unrivalled weight to working load ratio.

SAFETY FEATURES

If the block is over loaded or damaged, the running line will remain captive.
Holding the line from both directions makes it possible in emergency situations to pass the line through the sheave without worry that it's been led wrong.

VERSATILITY
SIMPLICITY AND DESIGN

Simple, reliable and efficient - the Karver KB block combines both freedom of attachment and extreme safety.

Launched 10 years ago, the KB block has won several awards including the famous Freeman K. Pittman Award (2006) granted by SAIL Magazine.

Its design and its multiple attachment possibilities make this block super versatile.

Assembled with ball or roller bearings, KB blocks are extremely low friction (KB Range).

Assembled with self-lubricating plain bearings, they ensure very high working load for a minimal size (KBC Range).

LIGHT WEIGHT

Compared to traditional blocks (at equal working load), the use of a soft attachment through the centre of the block reduces weight up to 50%.

VERSATILITY

With the use of lashing materials, multiple attachments are possible when installing the block (e.g Backstay sytems), or even just to tie it up (eg. to prevent capsize).

SAFETY FEATURES

Attachment through the centre prevents the running line from becoming disconnected from the lashing line if the block fails under extreme load.

SILENT

Unlike metallic shackles, the use of textile attachments avoids metallic impacts on deck which contributes to keeping the boat quiet.

MULTIPLE POSSIBILITIES

KB: Roller bearings, adapted for general usage.

KBc: Self-lubricating plain bearings, KBc blocks are ideal for applications when the line is required to run under very high load for a short distance (backstay, cunningham, boom vang, outhaul, etc).

KB8 Rope shackle
Available for all KB blocks

KB12 Double
Available for all KB blocks

KB12 & KB10
Fiddle block

KB14
Becket block

KB16
Multiple attachment

KB RANGE	REFERENCE	WORKING LOAD (T)	WEIGHT (g)	MAX LINE DIAMETER (mm)	SHEAVE DIAMETER (mm)	CORRESPONDING ROPE SHACKLE REFERENCE	CORRESPONDING LINK REFERENCE
KB6	PF190030	0,22	20	6	30	MP551701	PL191142
KB8	PF040030	0,6	51	10	35	MP551148	PL040774
KB8C	PF040031	0,8	44	8	33	MP551148	PL041089
KB10	PF020030	1	86	10	46	MP551148	PL021143
KB10C	PF020031	1,9	96	10	46	MP551149	PL022210
KB12	PF180030	1,4	119	12	54	MP551149	PL181094
KB12C	PF180031	3	167	12	56	MP551150	PL182211

*The breaking loads are equivalent to twice their working loads.

Julien Bontemps, Windsurfing World Champion, uses the Karver KB6 blocks.

© Julien Socha

TP52 - ©Karver Systems

TP52 - ©Karver Systems

HIGH LOAD BLOCKS
THE HIGHEST PERFORMING BLOCK ON THE MARKET

2% friction, carbon fibre, ceramic and titanium.

The new design avoids any possible capsizing of the block.

The closed structure prevents crushing of the block.

KBR 30

WORKING LOAD
3 T

WEIGHT
97 g !

L'Hydroptère DCNS © Christophe Launay

PERFORMANCE

Low friction ratio even under very high load (Titanium bearings).

LIGHT WEIGHT

Design optimisation and high tech component use make the KBr the lightest roller bearing block on the market.

COMPACT

The Titanium bearing system (Karver patent) ensures that the blocks hold high loads on smaller diameter sheaves.

SAFETY FEATURES

The central sheave diameter is enlarged to allow multiple lashings to pass through.

HIGH LOAD SNATCH BLOCK

The entire KBr range is available as a snatch block: One of the side plates pivots from the centre to open.
A self-gripping strap keeps the block closed.
Operating the block takes only a few seconds with the rope shackle.
KBR snatch blocks have aluminium side plates.

KBR Classic

Don't be taken in by its elegant design, this is still the best high performance block on the market.

The ground –breaking KBR blocks with their classic wood finishes are a perfect blend of performance and aesthetics.

Varuna KER53 © Varuna Racing

Maxi yacht " Heitaros " - © Baltic Yachts

INCREASED LONGETIVITY

Changing side plate material from alloy to carbon fibre and bearings from plastic to titanium and ceramic will decrease wear of the system over time.

DESIGN

New " anti capsize " shape, side plates assembled only with lashing.

KBR CARBON RANGE	REFERENCE	BREAKING LOAD* (T)	WEIGHT (g)	MAX LINE DIAMETER (mm)	SHEAVE DIAMETER (mm)
KBR 30	PF330002 [C]	3	97	12	49
KBR 50	PF330003 [C]	5	175	14	64
KBR 65	PF330005 [C]	6,5	280	16	75
KBR 80	PF330007 [C]	8	385	18	89
KBR 105	PF330009 [C]	10,5	557	18	102
KBR 130	PF330012 [C]	13	795	20	115
KBR 160	PF330016 [C]	16	1080	20	135
KBR 180	PF330018 [C]	18	1350	22	147
KBR 250	PF330025 [C]	25	2017	30	160
KBR 300	PF330030 [C]	30	3620	35	180
KBR 400	PF330040 [C]	40	4980	40	206

* The breaking loads are equivalent to twice their working loads. - (Block safe working load. The lashing may hold a higher load)

HIGH LOAD JAMMER
THE JAMMER THAT WON'T GIVE UP!

Unlike traditional jammers that squeeze lines between 2 jaws,
Karver KJ jammer secures the line evenly around its cover with 3 jaws*.

The conical KJ can be taken off its base, which can then be bonded into a casing on the deck or in the mast.

NEW

ACTION ON

YouTube
.com/KarverSailing

© Karver - Class 40

© Karver - Dufour 325

ROPE HOLDING

No slipping when under high load.
No rope wear.

PERFORMANCE

Up to 50% lighter than the competition.
Up to 3 different rope diameters can be used on the same jammer

SPECIAL FEATURES

Remote control possible.
Easily integrated into the boat's structure.
Easy maintenance.

*(patented)

A SIMPLE AND EFFICIENT CONCEPT

All the KJ jammers have been designed with the same philosophy:
3 concentric jaws that can be separated from their base and have the ability to be operated remotely.

UNIQUE CONCEPT

KJ jammer envelops the entire rope using the 3 jaws.

Jaw surface area has been maximised to prevent rope wear.

Unrivalled holding power.

OPERATION

The trip line (above) makes it possible to release the rope up to a load of 200 kilos. Above 200 kg, the load must be released using a winch.

The red line closes the jammer.

These 2 operations can be carried out remotely.

SPECIAL FEATURES

The body of the jammer is conical which is inserted in an alloy base, and screwed onto the deck or mast.

The KJ jammer can be dismantled in 30 seconds for maintenance or servicing.

Custom carbon conical part possible.

INSTALLATION

The conical jammer is held in place by one single screw in its base.

The version ready for bonding into the boat is integrated into a conical socket.

Keeping weight to a minimum.

© Karver-Systems VPLP verdier 100'' Comanche ''

Embeded KJ jammer

KJ RANGE	REFERENCE	LINE Ø MINI Ø MAXI (mm)	SAFE WORKING LOAD (MIN AND MAXIMUM) (KG)	WEIGHT (g)	WEIGHT WITHOUT BASE (g)	LENGTH X WIDTH X HEIGHT (mm)	FASTENER (provided)	CONE WITHOUT BASE
KJ10	PF840100	5-10	400 - 1000	190	128	98.1x44.2x52	3xM6	PF840100 [CONE]
KJ15	PF840150	6-12	600 - 1500	325	186	111x49.2x57.8	2xM6 et 1xM8	PF840150 [CONE]
KJ25	PF840250	8-14	1100 - 2500	580	330	135x57.2x64.5	4xM8	PF840250 [CONE]
KJ50	PF840500	12-20	2000 - 5000	990	560	160.5x70.4x81	4xM12	PF840500 [CONE]
KJ100	PF841000	20-32	6000 - 10000	2980	1640	245.2x102.1x114.5	5xM16	PF841000 [CONE]

*Depending on rope diameter and characteristics

© Karver-Systems - Multi " Arkema "

Remote control

KOMINO

The Komino fairleads (Karver/ Domino) are raised to guide the rope better (straight or sideways). They are made of aluminum alloy and anodized for better protection.

NEW

FAIRLEADS
Organize your deck layout

The Komino fairleads simply assemble together.

KOMINO RANGE	REFERENCE	WORKING LOAD À 45° (kg)	FASTENER SPACING** (mm)	WEIGHT (g)	WEIGHT (mm)	MAX LINE DIAMETER (mm)	FIXATION
Simple	PL843946	500	42	33	38	12	M6
Inter	PL843945	500	42	38	38	12	M6

KJ3

NEW

New jaws design

CAM CLEAT
HIGH PERFORMANCE

High strength and reliability.

KJ RANGE	KJ2 NEW	KJ3
DESIGN	The closed aluminum structure strengthens and protects the cam cleat from impacts	
PERFORMANCE	Nylon/Fibers base Self-lubricating bearing Good holding capacity on small diameter ropes* Very good weight / strength ratio	Aluminum base HR ball bearings Minimum friction Excellent holding capacity on small diameter ropes*
WORKING LOAD/BREAKING LOAD WITHOUT FAIRLEAD (Kg)	150	250
WORKING LOAD/BREAKING LOAD WITH FAIRLEAD (Kg)	200	310
WEIGHT (G)	45	69
DIMENSIONS (MM) / FASTENER SPACING (mm)	62,5 X 26,5 / 38	62,5 X 26,5 / 38
CONTROL LINE MAX. (mm)	10	10
REFERENCE	PF840050	PF840010
REFERENCE FAIRLEAD**	SF842531	SF842531

*From 5mm diameter ropes - ** Fairlead sold separately

WINCHLESS
AN AUTOMATIC PURCHASE INSTEAD OF A WINCH!

Based on the Karver KJ jammer design,
it's possible to sheet-in with just a purchase system using the Karver Winchless.

HOW DOES IT WORKS?

1 Thread the line through the Winchless (A).

2 Without tension in the purchase system (B) linked to the Winchless, the rope (A) moves freely.

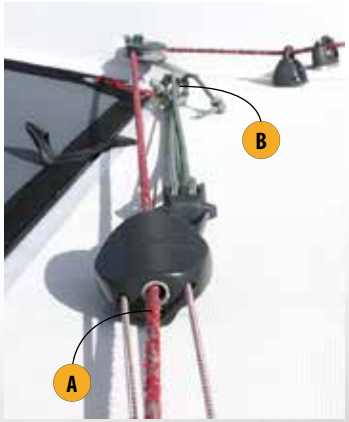
3 As soon as tension (B) is put on the purchase system, the Winchless starts holding the rope (A). Control is now done through the purchase system.

4 As soon as the purchase system is released (B), the rope (A) is free again.

ADVANTAGES

- Can replace a winch on small keelboats.
- Enables user to operate the line from a distance (when hiking for instance).

NEW



ACTION ON

YouTube
.com/KarverSailing

KW RANGE	REFERENCE	WORKING LOAD (Kg)	MAX ROPE DIAMETER (mm)	WEIGHT (g)	DIMENSIONS LENGTH WIDTH HEIGHT (mm)
KW3	PF840040	300	5--10	240	100 X 72 X 53

JAWS HANDLE
UNIQUE TO THE MARKET!

The KJH "Jaws Handle" is the ideal system to tighten up a sheet without hurting one's hands!

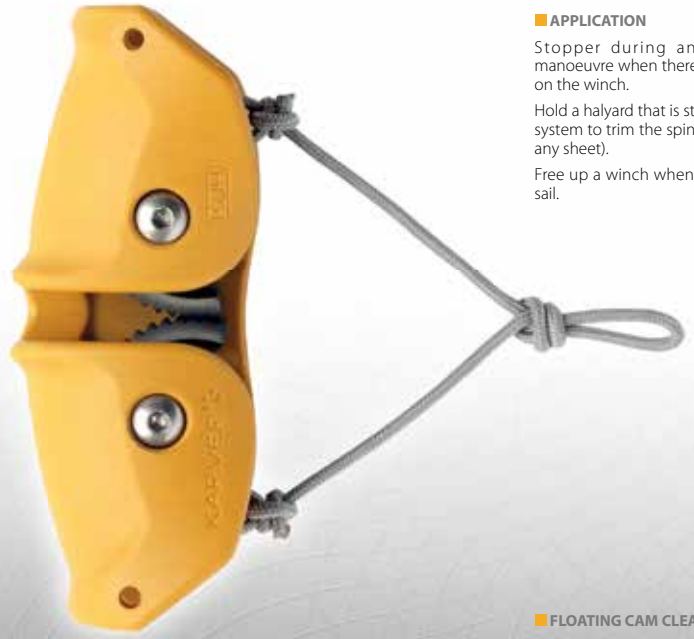
SAIL 2012 PITTMAN INNOVATION AWARD

The resistance strength of the new high modules rope tends to reduce line diameters, which compromises comfort and efficiency when trimming (It is difficult to pull hard on a small diameter line without getting one's hand crushed!)

The Karver "Jaws Handle" enables you to be able to hold a line that is under load already.

To release the line from the cleat, simply bend the wrist.

The Karver "Jaws Handle" can easily be used to trim on a mainsheet or even a spinnaker sheet or for control lines on larger yachts.



APPLICATION

Stopper during an emergency manoeuvre when there is an over ride on the winch.

Hold a halyard that is stuck, or set up a system to trim the spinnaker sheet (or any sheet).

Free up a winch when striking a new sail.

© Karver Systems

Pull 3 times harder!

FLOATING CAM CLEAT

To hold a line under load, the KJH Handle can also be used as a flying cam cleat.

KJH RANGE	REFERENCE	WORKING LOAD * (Kg)	WEIGHT (g)	DIMENSIONS (mm)	MAX ROPE DIAMETER (mm)
KJH	PF840020	110	111	110 X 35 X 40	10

* The breaking loads are equivalent to twice their working loads.

KSC

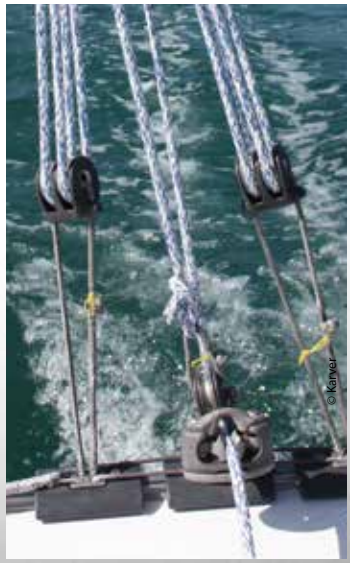
CAM BASES
UNIVERSAL*

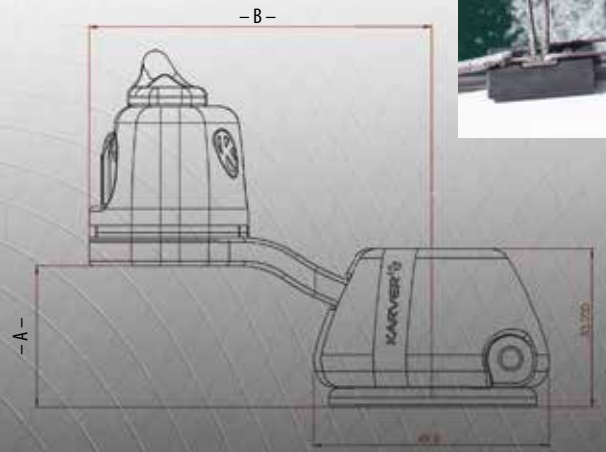
Assembled with KJ cam cleat, the compact and weight optimized KSC swivel cleat base is available in several models.

Swivel cleat bases for KB or KBO block

Swivel cleat bases for ratchet block

Swivel cleat bases with eye





KSC RANGE	REFERENCE	WORKING LOAD (Kg)	WEIGHT (g)	– A –	– B –
KSC for block**	PF840031	200	183	28	72
KSC for winch**	PF840032	200	205	48	93
KSC eye	PF840030	200	195	28	72

*Same parts for different applications - **Sold without block.

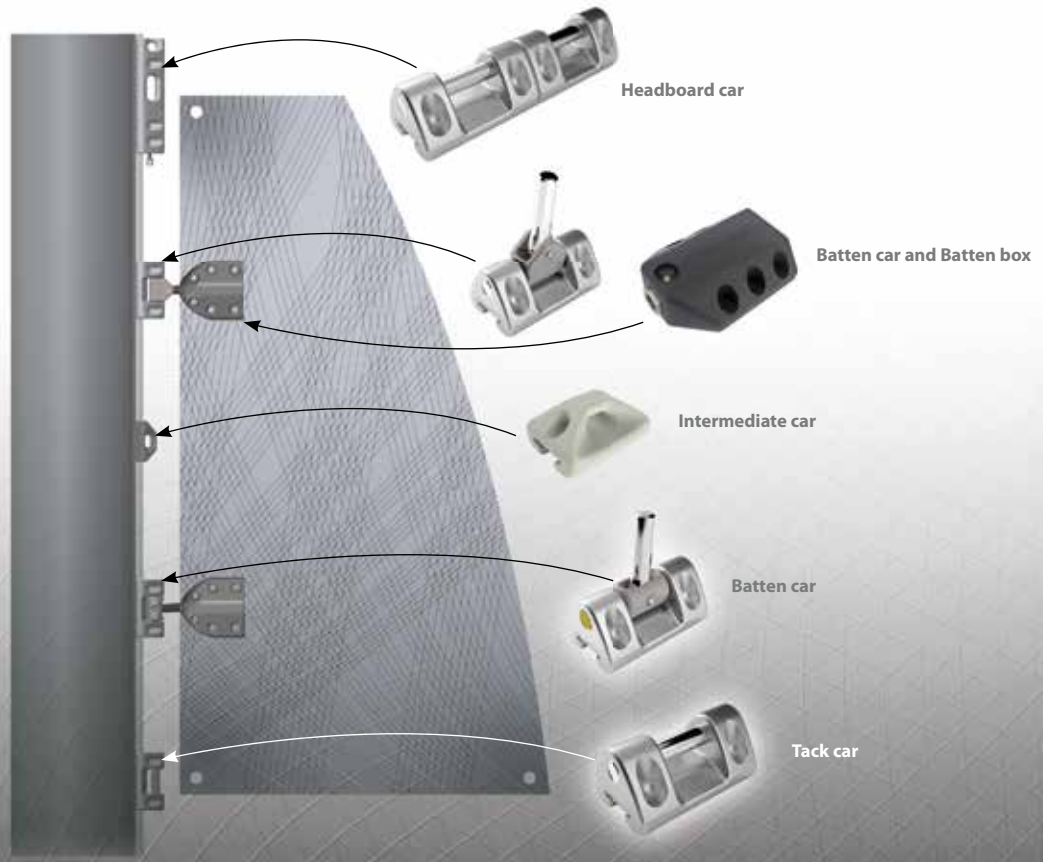
TRACK AND CAR SYSTEMS
DESIGNED TO LAST!

Developed in relationship with the biggest offshore racing teams,
the Karver batten cars and track systems are reliable and light weight.

A complete KMS system is usually composed of a track onto which sliding cars are mounted. Cars are different according to their function and attachment to the main sail: headboard, batten, intermediate and tack attachment cars.

The tables hereafter describe several versions of the Karver cars, all optimized for additional safety and performance. For example, if a car is overloaded, a built-in fuse will break first, therefore protecting your KMS system.

In order to reduce friction down to a minimum, the tracks are anodized with Teflon. In addition, the sliding cars are made of high performant self-lubricated materials.



KMS 30

The KMS 30 range is designed for yachts from 20 to 30 foot.

Friction has been reduced to its minimum, and the range is made to be compact and light weight.

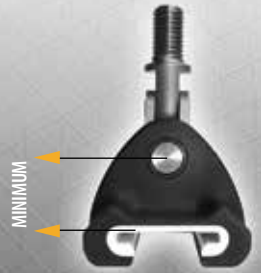
KMS30	REFERENCE	HEIGHT (mm)	WIDTH (mm)	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Headboard car with 2 lashing eyes	PF1043734	81	30	52	73
Batten car on M10 thread pins	PF1043362	40	30	49	43
Tack or intermediate car	PF1043735	40	30	22	23

KMS30 Tracks	REFERENCE	HEIGHT (mm)	WIDTH (mm)	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Standard track KMS 30	PF1042549	11,4	19,6	-	250g/m

KMS 40

The KMS40 range takes benefit from Karver knowledge of mainsail track systems.

It's available for boats from 35 to 50 foot for unrivalled performance and reliability.



The center of rotation is located as close as possible to the track, torque and subsequently loads are reduced.

KMS40 Headboard car	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Ideal for class 40 this headboard car combines lightweight, simplicity and compactness	PF1402992	140	40	_	40	279
Headboard car with pivoting lashing head, for better longevity of the lashing	PF1403035	140	40	_	79	388
Headboard car with lock. Locks via a trip line Unlocks by hoisting the sail. With lashing eye	PF1403036	156	40	_	40	367

KMS40 Batten car	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Standard headboard car. Narrowest gap between mast and sail available on the market Pin on fuse to avoid damage in case of overload	PF1402710	70	40	M10 M12 (option)	42	149
Identical to standard car with quick release pin, for easier drop of the mainsail and faster fuse change	PF1403020	75	40	M10 M12 (option)	42	154
Batten car with stainless steel thru axle for strength Ideal for battens near reef area or for the battens near square mainsail heads	PF1402985	70	40	M10 M12 (option)	55	231

KMS40 Intermediate car	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Intermediate light weight plastic car	PL1403588	50	38	_	29	25

KMS40 Tack car	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Tack car with stainless steel pin to withstand extra loads at reef or outhaul points	PF1403031	70	40	_	40	141

KMS40 Tracks	REFERENCE	HEIGHT (mm)	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Standard track KMS 40 lenght 2.85 m	PF1402711	24	12,3	304g/m

KMS 60

A standard within the IMOCA 60 fleet, Karver KMS 60 range is designed for boats from 50 to 70 foot.

KMS60 Batten box	REFERENCE	BATTEN WIDTH MAXI (mm)	BATTEN THICKNESS MAXI (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Alloy batten box M14	PF1612889	39	20	M14	73	0,348
Plastic batten box M14	PF1612891	39	20	M14	73	0,177
Articulating alloy batten box M14	PF1403036	39	20	M14	73	0,346
Articulating plastic batten box M14	PF1613257	39	20	M14	73	0,196
Alloy round shape batten box M14	PF1613288	ø22	ø22	M14	70	0,346
Plastic round shape batten box M14	PF1612890	ø22	ø22	M14	70	0,206
Alloy batten box M16	PF1613278	39	20	M14	73	0,346
Mod 70 batten box	PF1682883	39	20	M14	74	0,465

Headboard car including lock and remote control

KMS60 Headboard car	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
A best-seller in the IMOCA 60's and Multi 50's this car allows for a 2:1 or 3:1 halyard Sail lashed through the bottom eye	PF1603271	200	46	_	95	0,826
Locking process through a trip line Unlocks by hoisting the sail Easy maintenance	PF1602999	200	46	_	55	0,588
Headboard with lock and 2:1 block Articulated lashing eye to prevent lashing wear	PF1603271	250	50	_	98	1,075

Overload fuse system

KMS60 Slider batten car	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Vesconite slider for optimal movement Toggle on a fuse to protect battens, sail and track in case of overload. Easy dismantling	PF1602933	90	48	M14	56	0,308
Identical to LG90 car (above) with better load spread along the track, for higher loads or slim tracks	PF1602873	110	48	M14	56	0,339
High strength car for batten near reefing areas and square head battens with high angles Increased length for better load spread	PF1603376	110	48	M14 (M16 option)	72	0,43
Ball bearing batten car for minimum friction and toggle on fuse to protect mast and sail in case of overload	PF1602939	116	70	M14	60	0,399
Ball bearing batten car with toggle joint, allowing easy and fast dismantling of the battens, without tools. Ideal for the square head main top batt	PF1603507	112	70	M14 (M16 option)	According angle	0,399

KMS 60

KMS60 Intermediate car	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Intermediate alloy car for medium loads	PF1602881	50	50	_	34	0,071
Intermediate plastic car for low loads	PF1602932	50	50	_	34	0,025

KMS60 Tack car	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Lightweight, high durable and compact tack car CNC machined in one piece	PF1602943	110	48	_	40	0,176
Standard tack car LG90	PF1602942	90	48	_	48	0,23
An elongated tack car to sustain high loads LG110	PF1602944	110	48	_	48	0,261

KMS60 Track	REFERENCE	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT PER m (g)
Track for M6 fasteners every 25mm	PF1602744	_	_	_	_	0,488
Track for M6 fasteners every 50mm	CUSTOM	_	_	_	_	0,429
Track for M6 fasteners every 75mm	CUSTOM	_	_	_	_	0,423
Track for M6 fasteners every 100mm	CUSTOM	_	_	_	_	0,418
Track bit for M8 fastener sitting on the top face of the track, with ability to have a locking area	CUSTOM	_	_	_	_	0,491

KMS 80

KM80 range of car for yachts from 70 to 110 foot.

KMS80 Batten box	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Alloy batten box for batten of 39x26mm dimension/90mm depth	35	95	M16	120	0,530

KMS80 Slider batten car	HEIGHT (mm)	WIDTH (mm)	Ø THREAD	DISTANCE BETWEEN MAST AND SAIL (mm)	WEIGHT (g)
Toggle joint on fuse to protect battens, track and mast in case of overloadings dismantling without tools	140	56	M16	65	0,544
Slider batten car with toggle joint and thru axle, allowing quick and easy dismantling of the battens, without tools	140	56	M16	77	0,604
Slider batten car with locked toggle joint, allowing quick and east dismantling of the battens, without tools	140	56	M16	65	0,517

MAST AND BOOM ACCESSORIES

KDsb Sheave boxes Our Sheave Boxes are manufactured in aluminum alloy (6000 series), hard anodised, and they enable main, staysail and ORC halyards to go through with minimum friction.

KDSB RANGE	REFERENCE	WL (T)	ø SHEAVE (mm)	WEIGHT (g)	ø CONTROL LINE (mm)
KDSB 25	PF970025	2,5	65	279	12
KDSB 40	PF970040	4	80	519	18
KDSB 60	PF970060	6	100	967	24
KDSB 100	PF970100	10	120	1465	26
KDSB 150	PF970150	15	160	2094	28

Sheave box
Ask for availability

KDs Sheaves Featuring a plain bearing for high working loads and ball bearings for lateral loads, the Karver sheave range offers a very low weight to working load ratio.

KD RANGE	REFERENCE	WL (T)	ø SHEAVE (mm)	WEIGHT (g)	ø CONTROL LINE (mm)
KDs 25	PF980025	2,5	65	98	12
KDs 40	PF980040	4	80	266	18
KDs 60	PF980060	6	100	419	24
KDs 100	PF980100	10	120	703	26
KDs 150	PF980150	15	160	1382	28

Sheave
Ask for availability

KHR Reef locks System working through a hook catching on a webbing loop on the sail, a line enables to unlock it. The engineering is extremely light and reliable.
More information available upon request.

KHR RANGE	REFERENCE	WORKING LOAD * (Kg)	WEIGHT (g)
KHR 2	PF0263125	2500	188
KHR 4	PF0263440	4000	299
KHR 5	PF0263414	5000	488
KHR 10	PF0263222	10 000	834
KHR 15+	PF0263388	>15 000	3817

Reef lock
Ask for availability

* The breaking loads are equivalent to twice their working loads.

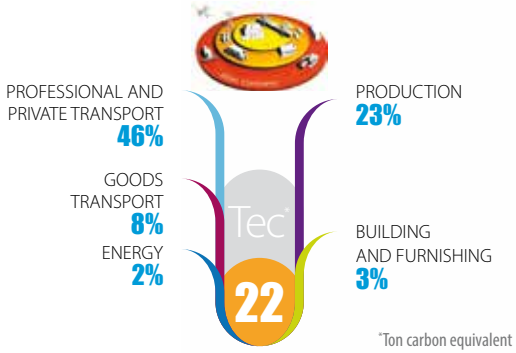
ECOLOGICAL ENGAGEMENT

Since 2008, we have been committed towards sustainable development. Over the years, we have initiated several projects to understand and act upon our ecological impact.

To better understand our impact on the environment and to work on lowering our emissions, we asked for our Carbon Footprint calculation in 2009. Analysing results enabled us to work on each sector to lower our carbon emissions. Details from the study are available upon request.

We have developed bio-plastic from non-feeding oriented renewable resources. The new raw material in PA11 Rilsan® (castor oil) is reinforced with flax fibres. Latest tests have shown resistance over time superior to the Polyamides 6 coming from petrol.

CARBON FOOTPRINT® 2009



*Ton carbon equivalent

ECO PRODUCTION

DISTRIBUTION NETWORK

Our after sales service, supported by our distributor network in more than 32 countries allow us to provide technical assistance in 72 hours maximum.

Visit our website for updates on releases of new products :
www.karver-systems.com

Phone : **+33 (0)2 31 88 37 98**

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