



PURE  
PERFORMANCE  
DECK & MAST  
GEAR



**KARVER**<sup>®</sup>  
sailing experience

2018  
ENGLISH CATALOG

V.1



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The information and data published in this catalog may differ from actual data.  
Products may be discontinued without prior notice.



## OUR MARKETS

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CRUISING



RACING



SUPER YACHT

## PRODUCT LINES

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FURLERS



LOCKS



BLOCKS



JAMMERS



TRACKS & CARS

## OBSESSIONS

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## MESSAGE FROM CEO

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*Due to our capacity to innovate and provide custom solutions in a short time frame, we work with the greatest names in the sailing industry and are onboard the most prestigious yachts.*

*Equipment requirements are typically the same on Maxi-yachts, foiling catamarans or production boats, with shared difficulties from hoisting the main sail to dousing the spinnaker or preventing halyard stretch...*

*It is still a hands-on experience, but one that provides you with more comfort, safety and performance to better enjoy your time at sea.*

*Happy sailing!*

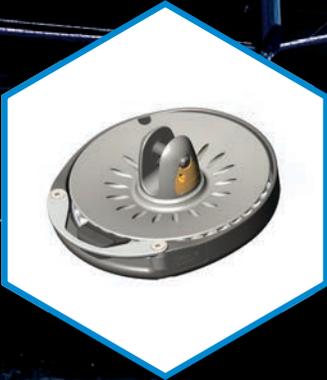


Furlers make handling the sail easier thus improving your boat's performance



**KFx**

STRUCTURAL FURLERS



**KF**

FURLERS



**KSF**

TOP DOWN SPINNAKER FURLERS

## WHY CHOOSE A FLYING FURLER?

- The furler is a light and removable system that quickly launches the foresails on your sailboat. Free flying sails come as an addition to your genoa so you always fly the best sail depending on the wind and boat direction.
- A 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 types of sails: gennakers, stormsails, staysails and more recently on asymmetrical spinnakers.
- The choice to design our furler with a composite spool around the drum was made to protect fingers from getting caught when operating the unit and prevent the furling line from jamming out. Yet, it was also designed to enable the furling line to eject when not under tension.

## 8 reasons to choose a Karver furler

**▶ 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.

**▶ SUPER LOW FRICTION BEARINGS**  
KF range low friction bearings have been specifically designed for our furlers with high tech materials.  
Furling has never been easier.

**▶ CONTINUOUS LINE INSTALLATION**  
Easy and quick engagement of the continuous line requires no tools.  
Karver invented the concept where the endless line is installed within seconds and stays secured on the drum.

**▶ CUSTOM**  
One of our strengths is our capacity to customize our product in a short time frame at a reasonable cost to suit your specific needs.

**▶ 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.

**▶ UNIQUE DRUM LOCKING MECHANISM**  
**FURLING:** Pull on the endless line to furl (If you accidentally release the furling line the mechanism locks automatically).  
**UNFURLING:** To unlock the drum, just tug a little on the line in the same direction that the sail was furled which releases the lock and enables the sail to unfurl.

**▶ EXTREMELY LIGHT AND COMPACT**  
Our range is 35% lighter and more compact than the competition. Light weight swivels lower the impact on the mast.  
More compact means more sail area!

**▶ COMPOSITE SPOOL**  
Unlike metallic drums, the composite spool around the drum is shock absorbent and protects the drum, the sail and the deck from impact.

**KF5**

BOAT LENGTH	STRUCTURAL	STAYSAIL	CODE 0	GENNAKER	ASY SPINNAKER
Max 32'	Call us	<b>KF1 or KFH1 +</b>	<b>KF1</b>	<b>KF1</b>	<b>KSF1 or KTS1</b>
Max 42'	Call us	<b>KF2 or KFH2 +</b>	<b>KF2</b>	<b>KF2</b>	<b>KSF2 or KTS2</b>
Max 52'	Call us	<b>KF5 or KFH5 +</b>	<b>KF5</b>	<b>KF2</b>	<b>KSF5 or KTS5</b>
Max 65'	Call us	<b>KF8 or KFH8 +</b>	<b>KF8</b>	<b>KF5</b>	<b>KSF8 or KTS8</b>
Max 95'	Call us	<b>KF12 or KFH12 +</b>	<b>KF12</b>	<b>KF8</b>	<b>KSF12 or KTS12</b>
> 95'			Call us		

## Furler recommendation for cruising yachts

Furler model depends on boat size or weight, sail area, navigation programs.  
 For further information or in case of doubt, please contact us. \*(patented)

## Online support

In the "library" tab of our website, you can retrieve a list of over 80 production yachts.

For each manufacturer, we have listed the furling unit the most recommended given the model of the boat and the sail to be furled.

If you wish to have onboard one furling unit for your whole inventory of sails, please look at the column "one fits all".

If your boat is not listed, please feel free to contact us.

**WHICH KARVER FURLER FOR WHICH MODEL**  
 AIDE AU CHOIX EMMAGASINEURS KARVER PAR MODELE

Models :	Staysail	Upwind straight luff sail	Downwind straight luff sail		1 for all
			Code 0	Gennaker	
Sense 57					
Sense 51					
Oceanis 62					
Oceanis 60					
Oceanis 55					
Oceanis 48					
Oceanis 45					
Oceanis 41.1					
Oceanis 38.1					
Oceanis 35.1					
Oceanis 31					
Oceanis 25					
Oceanis 20					
Oceanis 17.3					
Oceanis 14					
Oceanis 12					
Oceanis 10					
Oceanis 7.3					

**Please contact us**  
 Contactez-nous : Merci de nous contacter

**1 pour toutes : 1 emmagasinageur**



[www.karver-systems.com](http://www.karver-systems.com)

# KTS

## Karver Tack Swivel

The KTS (Karver Tack Swivel) is a top down adaptor that enable to convert a bottom-up furler into a top-down unit.

The KTS can also remain on the sail to be easily plugged in or stored, which is another major benefit of this product.

The furler can then remain on the bow to be used for other sails, or be stored.

Our quick release and captive pin mechanism makes it easy and safe to operate the swap in and out.



### KF + KTS = KSF

MODEL	PART NUMBER	SWL (T)	TACK SWIVEL SWL (T)	WEIGHT (Kg)
<b>KTS1</b>	PF100021	1.5	0.5	0.15
<b>KTS2</b>	PF090021	2.5	1	0.41
<b>KTS5</b>	PF080021	5	1,5	0.68
<b>KTS8</b>	PF110021	8	3	1.24
<b>KTS8 Reinforced</b>	PF110021 [R]	8	6	1.49
<b>KTS10</b>	PF030021 [10]	10	6	1.5
<b>KTS12</b>	PF030021	12	10	2.12
<b>KTS16</b>	PF030021 [16]	16	12	2.60
<b>KTS20</b>	PF030021 [20]	20	15	3.20
<b>KTS30</b>	PF030021 [30]	30	20	3.5

## KTS for hydraulic ram:

Many Super Yachts feature hydraulic rams (Bamar, Reckmann...).

We have designed the fittings to the specs of these hydraulic rams and supply with a package KTS + top swivel.

We can supply top down adaptor for other manufacturers and models upon request. Please contact us with your inquiry.

MODEL	KTS ONLY	KTS + Swivel	SWL	TS SWL	WEIGHT
<b>KTS8 RECKMAN CZ8</b>	PF110021 [REC8]	PF110011 [REC8]	8	6	1.85
<b>KTS16 RECKMAN CZ16</b>	PF030021 [REC16]	PF030011 [REC16]	16	12	3.35
<b>KTS20 RECKMAN CZ20</b>	PF030021 [REC20]	PF030011 [REC20]	20	15	3.7
<b>KTS8 BAMAR SE/SI 8T</b>	PF110021 [BAM8]	PF110011 [BAM8]	8	6	1.8
<b>KTS16 BAMAR SE/SI 15T</b>	PF030021 [BAM15]	PF030011 [BAM15]	16	12	2.5
<b>KTS20 BAMAR SE/SI 20T</b>	PF030021 [BAM20]	PF030011 [BAM20]	20	15	3.4



## FURLERS

# PURE SIMPLICITY!

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



### +SAFETY FEATURES

- Drum locking mechanism control from the cockpit (Patented).
- Breaking load over twice the safe working load.
- Swivel lightness decreases impact on the mast when hoisting/lowering the sail.

### +EFFICIENCY

- Quick fitting mechanism for the sail.
- Quick fitting mechanism to the deck and halyard.
- Fast and captive pins.
- Quick engagement of the continuous line

### +ERGONOMICS

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

### +PERFORMANCE

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



Available for 20 feet cruisers up to 150 feet Super Yachts. KF furlers feature Karver's unique drum locking mechanism which operates from the safety of the cockpit.



© Hugo BOSS.

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



© Wally - Wally Nano



© Stefani Gaspari - Initiatives-cœur

MODEL	PART NUMBER*	SWL (T)	WEIGHT (Kg)	DRUM DIAMETER (mm)	CUTTING LENGTH (mm)
<b>YACHTS</b>					
<b>KF1</b>	PF100000	1.5	0.648	110	157.5
<b>KF2</b>	PF090000	2.5	1.061	150	194.3
<b>KF5</b>	PF080000	5	2.146	175	252.3
<b>KF8</b>	PF110000	8	2.672	210	206.9
<b>KF10</b>	PF030000 [10]	10	3.933	210/300**	222.1
<b>KF12</b>	PF030000	12	3.885	210/300**	243.2
<b>SUPER YACHTS</b>					
<b>KF16</b>	PF030000 [16]	16	-	-	-
<b>KF20</b>	PF010000	20	-	-	-
<b>KF25</b>	PF270000	25	-	-	-
<b>KF30</b>	PF880000	30	-	-	-

\* Each reference includes a drum and a swivel. \*\* Upgrade.

See the OPTIONS pages for other characteristics & other available configurations  
We custom build our products on a regular basis (fork width, pin diameter, fittings...).

Please contact us to discuss your expectations.

**In the box**



▶ Drum with its fitting



▶ Swivel with its fitting



▶ Neoprene protection



▶ Lock and spare lock



▶ User manual



▶ Storage bag



## SPINNAKER FURLERS

# FURL YOUR SPINNAKER!

KSF top down furler is READY TO HOIST IN SECONDS!

## KSF

### +SAFETY

- Furling can be safely done single handed from the cockpit!

### +PERFORMANCE

- The tack line can be adjusted from the cockpit to finetune the spinnaker position.

### +UNIVERSAL

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

### +LIGHT WEIGHT

- The difference from a standard KF drum is the addition of an independent swivel on the top which helps keep the system light.



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.

We custom build our products on a regular basis (fork width, pin diameter, fittings...). Please contact us to discuss your expectations.

MODEL	PART NUMBER*	SWL (T)	TACK SWIVEL SWL (T)	WEIGHT (Kg)	DRUM DIAMETER (mm)	CUTTING LENGTH (mm)	ANTI TORSION (mm)
<b>YACHTS</b>							
<b>KSF1</b>	PF100000 [SPI]	1,5	0,5	0.736	110	170.8	9
<b>KSF2</b>	PF090000 [SPI]	2,5	1	1.251	150	211.4	13
<b>KSF5</b>	PF080000 [SPI]	5	1,5	2.146	175	264.3	15
<b>KSF8</b>	PF110000 [SPI]	8	3	3.356	210	217.5	x
<b>KSF8 R</b>	PF110000 [SPIRE]	8	6	3.547	210	217.5	x
<b>KSF10</b>	PF030000 [SPI10]	10	6	4.879	210/300**	236.4	x
<b>KSF12</b>	PF030000 [SPI]	12	10	4.486	210/300**	250.8	x

\* Each reference includes a drum and a swivel. \*\* Option. See the OPTIONS pages for other characteristics & other available configurations.

MODEL	PART NUMBER	SWL (T)
<b>SUPER YACHTS</b>		
<b>KSF16</b>	PF030000 [SPI16]	16
<b>KSF20</b>	PF030000 [SPI20]	20
<b>KSF25</b>	PF270000 [SPI]	25
<b>KSF30</b>	PF880000 [SPI]	30



© Karver Systems

When ordering one of our KSF packages, you will own every component (but the sail) to use your asymmetrical spinnaker: the furler drum and swivel + the furling line featuring a block + an anti-torsion cable with clamps to adjust it to the right length.

MODEL	PART NUMBER	SWL (T)	TACK SWIVEL SWL (T)	AT DIAMETER (mm)	AT LENGTH (mm)	FURLING LINE LENGTH (m)
<b>PACK KSF1</b>	PF100000 [SPIPAC]	1,5	0,5	9	16	2 x 8 m
<b>PACK KSF2</b>	PF090000 [SPIPAC]	2,5	1,0	13	20	2 x 10 m
<b>PACK KSF5</b>	PF080000 [SPIPAC]	5	1,5	15	26	2 x 13 m

## ? HOW DOES IT WORK?

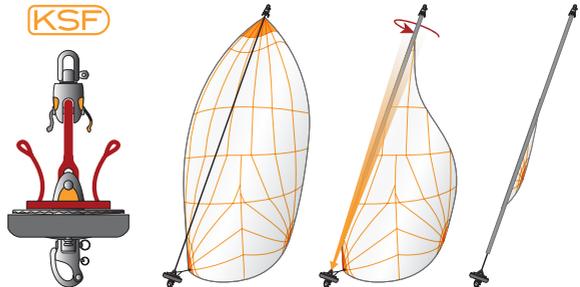
### Free flying sail furler

- Anti-torsion cable is sewn inside the sail luff.
- The tack and the head of the sail are attached with a lashing to the anti-torsion cable (thimbles).
- The sail starts furling from the bottom (like a jib furler).



### Top down furlers

- KF standard furler, features a tack swivel on top of the drum.
- The tack of the spinnaker is attached to the tack swivel. The head of the sail is attached to the anti-torsion cable (thimbles).
- The anti-torsion cable is separated from the sail luff.
- The anti-torsion cable transfers the torque from the drum to the top swivel. This is an essential part of a good furling process.
- The sail starts furling from the top downward.



**NEW**

It is also possible to convert your KF bottom up furler to a top down unit by using our KTS top down adaptor. (P. 7)



## STRUCTURAL FURLERS HIGH TECHNOLOGY!

Underneath its sleek exterior lies a wealth of technology.



### +KARVER

#### ADVANTAGES

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



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 showcases:

- 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.

References: Ultim Macif, Prince de Bretagne, Actual, HH, APC78, Imoca, Class 40, Swan50...

**KFX<sup>12</sup>**

WORKING  
LOAD  
**12T**

WEIGHT  
**2430g!**



KFX Packages		
MODEL	SWL (T)	PART NUMBER
<b>KFX1</b>	1,5	PF100000 [STRUCT]
<b>KFX2</b>	2,5	PF090000 [STRUCT]
<b>KFX5</b>	5	PF080000 [STRUCT]

Halyard swivel option	
PART NUMBER	MAX STAY DIAMETER (mm)
PF100020 [ETARQ]	6.5
PF090020 [ETARQ]	10.5
PF080020 [ETARQ]	15.5

KFX without fitting						
MODEL	SWL (T)	KFX STD CONTINUOUS LINE	KFX SINGLE LINE	KFX CONT. FOR SCREW STAY	SINGLE LINE FOR SCREW STAY	KHL LINK OPTION
<b>YACHTS</b>						
<b>KFX2</b>	2.5	X	N/A	N/A	N/A	PF094026
<b>KFX5</b>	5	PF080000 [XCL]	PF080000 [XSL]	PF080000 [XCLN]	PF080000 [XSLN]	PF084428
<b>KFX8</b>	8	PF110000 [XCL]	PF110000 [XSL]	PF110000 [XCLN]	PF110000 [XSLN]	PF110600
<b>KFX10</b>	10	PF030000 [X10CL]	PF030000 [X10SL]	PF030000 [X10CLN]	PF030000 [X10SLN]	PF030600
<b>KFX12</b>	12	PF030000 [X12CL]	PF030000 [X12SL]	PF030000 [X12CLN]	PF030000 [X12SLN]	PF030600
<b>SUPER YACHTS</b>						
<b>KFX16</b>	16	PF030000 [X16CL]	PF030000 [X16SL]	PF030000 [X16CLN]	PF030000 [X16SLN]	PF033962
<b>KFX20</b>	20	PF030000 [X20CL]	PF030000 [X20SL]	PF030000 [X20CLN]	PF030000 [X20SLN]	PF034850
<b>KFX25</b>	25	PF270000 [X25CL]	PF270000 [X25SL]	PF270000 [X25CLN]	PF270000 [X25SLN]	PF273762
<b>KFX30</b>	30	PF013000 [X30CL]	PF013000 [X30SL]	PF013000 [X30CLN]	PF013000 [X30SLN]	PF273762

We have developed two ways to hoist and lower the genoa on a structural furler: a halyard swivel sliding on your stay or a halyard lock connected to the top swivel.



► Halyard swivel



► KHL swivel link

**Compared to a reefing furler, a structural continuous line furler is about 8 times lighter!**

Description	KF1	KF2	KF5	KF8	KF10	KF12
<b>STANDARD PRODUCT INFORMATION</b>						
Swivel fitting	Shackle	Shackle	Shackle	Lashing eye	Lashing eye	Lashing eye
Drum fitting	Snap shackle	Snap shackle	Snap shackle	Lashing eye	Lashing eye	Lashing eye
Furler drum diameter (mm)	110	150	175	210	210	210
Furling line diameter (mm)	6	8	10	10	10	10
Drum lock provided (1 + 1 spare)	PF090050	PF090050	PF080070	PF080070	PF080070	PF080070
Neoprene swivel protection	PL104409	PL094410	PL084411	PL114412	PL034413	PL034413
Storage bag & manual	PL604047	PL604047	PL604047	PL604131	PL604131	PL604131
Fork pin diameter (mm)	8	10	12	14	18	20
Fork pin width (mm)	11	18	20	24	22	22
<b>COMMON OPTIONS</b>						
Aluminum thimble x 1	PF103776	PF090410	PF080050	PF110050	PF034742 [18]	PF034742
3:1 friction sheave with captive & fast pin	PF104699	PF094395	PF084227	PF114226	PF034787	PF034787
2:1 removable block	PF100030	PF090030	PF080030	PF110030 [ALU]	Custom	Custom
2:1 fixed block	-	-	-	-	PF030030	PF030030
Spinnaker top down adaptor KTS	PF100021	PF090021	PF080021	PF110021	PF030021 [10]	PF030021
Ready to use furling line [Diameter Length]	PF101231 [D6L16]	PF091232 [D8L20]	PF081233 [D10L26]	PF081233 [D10L32]	PF081233 [D10L42]	PF081233 [D10L50]
Custom length furling line	MP101231	MP091232	MP081233	MP081233	MP081233	MP081233
Anti torsion line (ready to use at your length)	CABLE [KSF1]	CABLE [KSF2]	CABLE [KSF5]	-	-	-
Anti torsion line only	CABLE [M9]	CABLE [M13]	CABLE [M15]	-	-	-
KRE / Clamp KSF	PF104710	PF094806	PF084921	N/A	N/A	N/A

## KF/KSF/KFX OPTIONS: CUSTOMIZE YOUR FURLER!



▶ THIMBLES



▶ 3 :1/2:1 FRICTION SHEAVES



▶ 2 :1 BLOCKS



▶ SPINNAKER TOP DOWN ADAPTOR

**NEW**



▶ FURLING LINES



▶ ANTI TORSION LINE

Description	KF1	KF2	KF5	KF8	KF10	KF12
<b>OTHER OPTIONS</b>						
300 mm drum	N/A	N/A	N/A	PF114816	PF114816	PF114816
Carbon furler wheel (despite aluminum)	PF104851	PF094140	PF084819	PF114820	PF114820	PF114820
Continuous line carbon drum	N/A	N/A	N/A	PL032579	PL032579	PL032579
Carbon drum modification for drum locking	N/A	N/A	N/A	PF030050	PF030050	PF030050
Single line drum option	N/A	PF091484 [SLC]	PF080000 [SLC]	PF030000 [SL]	PF030000 [SL]	PF030000 [SL]
Inversed fixed fork + captive fast pin	N/A	N/A	PF084852	PF114825	PF034824	PF034752
Tack straping thimble (tack)	N/A	N/A	PL084855	PL114818	PL033563 [10]	PL033563
3:1 friction sheave HR design	Custom	PF091592	PF081095	PF110452	PF030396	PF030396
Removable Tylaska snap shackle	N/A	N/A	PF082055	PF114525	N/A	N/A
Lashing pin	N/A	N/A	PF081569	PF114436	PF033065	PF030053
MX shackle	MP104043	MP094044	MP084045	N/A	N/A	N/A
2:1 High Load friction sheave	Custom	PF091590	PF080812	PF110995	Custom	Custom
Lashing eye	Custom	Custom	PL080440	STD	STD	STD
Fixed Tylaska snap shackle	N/A	N/A	PF080040 [TY]	PF110040 [TY]	-	-
High Load strope	N/A	N/A	PF084853 [SS]	PF110040 [SS]	PF030040 [SS]	PF030040 [SS]
Leather upgrade	PF104940	PF094941	PF084942	PF114943	PF114943	PF114943



**NEW**

▶ CARBON WHEEL



▶ CARBON DRUM



**NEW**

▶ LEATHER DRUM



▶ SINGLE LINE



▶ STRAPING TACK THIMBLE



▶ 3 : 1 WIDE HR



▶ INVersed FORK



▶ TYLASKA



▶ HIGH LOAD STROP



**KMH**

INTERNAL HALYARD LOCK



**KHL**

HALYARD LOCK



**KFH**

FURLING LOCK



**KMS**

HEADBOARD CAR LOCK



**KHR**

REEF LOCK

## KARVER: THE LOCKING SPECIALIST

# KARVER<sup>®</sup>PEDIA

Choosing the right sailing hardware can improve your boat's performance. The latest equipment is lighter, takes less room and is more efficient – it is now able to block and hook heavy loads.

Every lock mechanism aims to incorporate these benefits by replacing ropes with mechanical devices.

Today's fabrics are more and more advanced (3DL, Titanium, Laminated...) to help reduce the overall weight of the sail and maintain its shape thus minimising power loss due to its distortion. To benefit from the power of this type of sail, it is important to minimize the possible stretch of the lines. Installing a lock, regardless of the brand and technology, makes it possible to avoid a halyard stretch thus releasing the full power of the sails.

Besides this mechanical concept, the diameter of the halyard can be reduced as it no longer carries the load of the sail when sailing. For example, a 12mm halyard in Dyneema<sup>®</sup> could be replaced by a 6mm halyard.

The difference from a standard KF drum is the addition of an independent swivel on the top which helps keep the system light. For a 50 ft boat featuring a 65 ft mast, a weight aloft of 15kg would need to be balanced by several hundred kilos in the keel to ensure the same stability!

The installation of a halyard lock reduces the compression in the mast, as the halyard is no longer strained. For high performance sailing yachts, locks may help reduce the weight aloft as rigs can be designed to bear minimal compression.

It would be a mistake to think that these advantages are only for the racing scene. A gain in weight aloft results in better boat stability by decreasing the pitching and rolling in heavy weather conditions in all types of boats. Wouldn't you appreciate getting ashore a few hours or days earlier, without worrying about damage to the halyards?

### Our locking solutions:



**100% of the Imoca fleet use at least one of our locking devices.**  
**78% use our KFH and furlers.**



## INTERNAL HALYARD LOCK FOR HEADSAILS REMOVABLE LOCKING MECHANISM

Easy maintenance.

# KMH

+KARVER

### ADVANTAGES

- Reliability : Same lock as our proven at sea KFH.
- Security : Easy access. The locking mechanism can be removed from the bracket without tools.
- No trip line.
- No lock stop bullet.
- Choose the cap color !



**NEW**



The KMH internal halyard lock is a locking device for headsails installed by mast manufacturers.

This mechanism is integrated into the mast and allows maximum luff length

© Karver Systems

MODEL	PART NUMBER	SWL (T)	WEIGHT (kg)	MAX SPACE* (mm)	BEST LINE** (mm)	MAST CUT (mm)
<b>YACHTS</b>						
<b>KMH2</b>	PF370002	2	0.370	6.4	6	83 x 26
<b>KMH5</b>	PF370005	5	1.230	9.5	6	44 x 125
<b>KMH8</b>	PF370008	8	2.070	10.5	8	56 x 156
<b>KMH10</b>	PF370010	10	2.800	10.5	8	75 x 175
<b>SUPER YACHTS</b>						
<b>KMH15</b>	PF370015	15	3.670	14.5	10	83 x 204
<b>KMH20</b>	PF370020	20	4.750	14.5	10	215 x 94
<b>KMH30</b>	PF370030	30	-	-	-	-
<b>KMH40</b>	PF370040	40	-	-	-	-
<b>KMH50</b>	PF370050	50	-	-	-	-

**NEW**



## EXTERNAL HALYARD LOCK (NO SWIVELLING FEATURE) MULTIPLE APPLICATIONS

The KHL external lock is an easy to install lock for headsails.

# KHL

+KARVER

### ADVANTAGES

- Compact & Light.
- Essential for Racing yachts, Super Yachts AND cruising yachts.
- No trip line, no lock strop bullet .
- Perfect to lock a spinnaker snuffer during a long navigation.



No more tension in the halyard, avoids wear and stretch for improved safety, reduced weight and better performance.

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	HEIGHT (mm)	MAX SPACE* (mm)	BEST LINE** (mm)
<b>YACHTS</b>						
<b>KHL2</b>	PF480020 [KHL]	2	0.435	117.7	7.5	6
<b>KHL5</b>	PF470020 [KHL]	5	0.850	172.2	9.5	6
<b>KHL8</b>	PF410020 [KHL]	8	0.620	166.3	9.5	6
<b>KHL10</b>	PF400020 [KHL]	10	2.090	217.7	11.0	8
<b>KHL12</b>	PF400020 [KHL12]	12	1.550	217.7	11.0	8
<b>SUPER YACHTS</b>						
<b>KHL16</b>	PF400020 [KHL16]	16	-	-	-	-
<b>KHL20</b>	PF400020 [KHL20]	20	-	-	-	-
<b>KHL25</b>	PF570020 [KHL25]	25	-	-	-	-
<b>KHL30</b>	PF440030	30	-	-	-	-

\* Maximum available space.

\*\* Best halyard diameter before splicing



## FURLING LOCKS SWIVEL IMPROVE PERFORMANCE

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

### KFH

#### +SAFETY

- Once locked the halyard is no longer under tension. The compression in the mast is halved and halyard wear is minimised.

#### +LIGHTWEIGHT

- The luff is pulled 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 carries only the weight of the sail.

#### +SIMPLICITY

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



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.

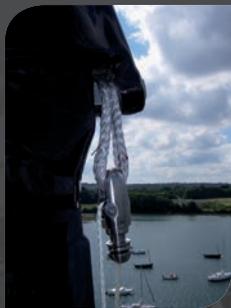
### Application examples

#### CODE SAILS/LIGHT GENOA:

As most standard sailing yachts do not include a mast equipped with 2:1 halyard purchase for foresails, it is easier to have a powerful code sail 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.



## ? HOW DOES IT WORK?

### 1 To lock:

pull the halyard to max hoist. The furling-lock becomes a standard top swivel: Just unfurl and enjoy your sail.

### 2 To unlock:

simply pull on the halyard again to max hoist. The sail can now be lowered.



MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	HEIGHT (mm)	MAX SPACE* (mm)	BEST LINE** (mm)
<b>YACHTS</b>						
<b>KFH1 (V.2)</b>	PF550020 [KFH]	1.5	0.330	108	5	5
<b>KFH2 (V.2)</b>	PF480020 [KFH]	2.5	0.877	158	7.5	6
<b>KFH5</b>	PF470020	5	0.920	166.8	9.5	6
<b>KFH6</b>	PF410020 [KFH6]	6	0.896	166.2	9.5	6
<b>KFH8</b>	PF410020	8	1.046	172.5	9.5	6
<b>KFH10</b>	PF390020	10	2.230	218.4	11	8
<b>KFH12</b>	PF400020	12	2.230	218.4	11	8

<b>SUPER YACHTS</b>		
<b>KFH14</b>	PF400020 [14]	14
<b>KFH16</b>	PF400020 [16]	16
<b>KFH20</b>	PF440020	20
<b>KFH25</b>	PF1060020 [25]	25
<b>KFH30</b>	PF1060020	30

The **KFH+** or the **KSFH+** packages include a drum + a 3:1 friction sheave + a KFH furling lock despite the standard swivel.

MODEL	Ref KFH+	Ref KSFH+
<b>KFH1</b>	PF550000	PF550000 [KSF]
<b>KFH2</b>	PF480000	PF480000 [KSF]
<b>KFH5</b>	PF470000	PF470000 [KSF]
<b>KFH8</b>	PF410000	PF410000 [KSF]
<b>KFH10</b>	PF400000 [10]	PF400000 [KSF10]
<b>KFH12</b>	PF400000	PF400000 [KSF]



\* Maximum available space.

\*\* Best halyard diameter before splicing.



## REEF LOCK

# NO MORE BREAKING REEF LINES

A complete line of reefing locks for cruising, racing and Super Yachts.

# KHR



Originally designed and installed onboard the Orma's, reef locks have become popular in the cruising and Super Yacht scene to solve common problems (overload, many friction points, or slipping jammers).

These locks make it lighter due to a reduction in strapping and avoid reef line stretch.

© Karver Systems

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX SPACE (mm)	BEST LINE (mm)	MAX LOOP* (mm)	MATERIAL
<b>YACHTS</b>							
<b>NEW KHR1</b>	PF0265276	1	0.067	5.5	5	13	ALU
<b>KHR2</b>	PF0263125	2	0.188	6.2	5.50	19	ALU
<b>KHR4</b>	PF0263440	4	0.299	9	7	20	ALU
<b>KHR5</b>	PF0263414	5	0.488	10	6	24	ALU
<b>KHR8</b>	PF0264562	8	0.660	11.2	7	24	ALU
<b>KHR10</b>	PF0263222	10	0.834	10	6	20	ALU
<b>KHR6+</b>	PF0263440 [INOX]	6	0.884	9	7	20	STAIN. STEEL
<b>KHR8+</b>	PF0263414 [INOX]	8	1.442	10	8	24	STAIN. STEEL
<b>KHR12+</b>	PF0264022 [INOX]	12	2.200	10	8	28	STAIN. STEEL
<b>SUPER YACHTS</b>							
<b>KHR15+</b>	PF0263388	18	3.800	12	10	34	STAIN. STEEL
<b>KHR20+</b>	PF0264856 [INOX]	20	-	-	-	-	STAIN. STEEL
<b>KHR25+</b>	PF0264857 [INOX]	25	-	-	-	-	STAIN. STEEL
<b>KHR30+</b>	PF0264858 [INOX]	30	-	-	-	-	STAIN. STEEL

All models can be ordered in titanium. \* Max high load loop (not provided) to install on the mainsail leech (1 on each reefing eye).



## KMS MAINSAIL LOCKING HEADBOARD CAR

### USED BY RACERS FOR OVER FIFTEEN YEARS



+KARVER

#### ADVANTAGES

- Compact & Light.
- External and /or internal remote.

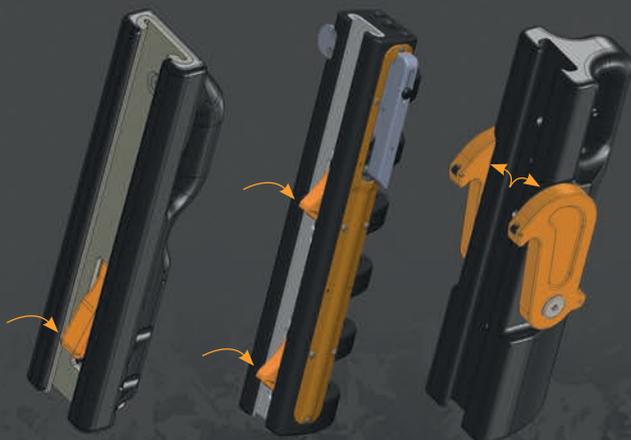


Locking a mainsail is a common solution on many racing yachts, Super Yachts, and cruising yachts.

#### LOCKING TECNOLOGIES

We supply a headboard car featuring a lock for the whole KMS product line (except KMS30). Depending on the load requirements and the yacht size, the "locking system" would be activated with one or two inserts (in red) into the track or with two hooks on the side for the bigger units.

References and characteristics available in the KMS section (p44/54).



► One lock

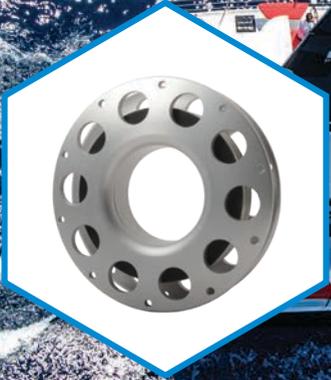
► Two vertical locks  
(autolock option)

► Two horizontal locks

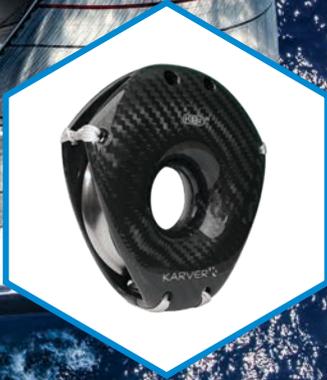
Lashing blocks fast attachment for performance and safety!



ROPE LASHING BLOCKS



VERSATILE BLOCKS



HIGH LOAD BLOCKS

## WHY CHOOSE KARVER'S LASHING BLOCKS?



### ► SAFETY FEATURE

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



### ► LOW FRICTION

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



### ► DESIGN

Karver block design has been simplified to the max so it can be used by everyone 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

## Features and benefits

Description	KBO	KB	KBR
SIDE PLATES	KBO1 to 8: Plastic + fibre KBO10 to 50: Aluminium alloy	KB6 and KB8: Plastic +fibre KB10 to KB12: Aluminium alloy	Carbon/Aluminum/Stainless steel
SIDE BALL BEARINGS	POM from KB08	N/A	Ceramic
CENTRE ROLLER BEARINGS	PEEK®	PEEK®	Titanium
ROPE SHACKLE INCLUDED	Up to KBO30	Optional	Optional
LEATHER OR WOOD OPTION	N/A	N/A	YES
FRICTION RATIO	5 to 7%	5 to 7%	2%
INSTALLATION	Easy	Rope-work required	Rope-work required
DOUBLE AND TRIPLE OPTION	Up to KB08	With link	N/A
WEIGHT TO SWL RATIO	**	*	***
COST	***	**	*



## ROPE LASHING BLOCKS SAIL LIGHTER!

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

### KBO

#### +FAST ATTACHMENT

- The rope shackle is included with the block up to KBO30.

#### +SIMPLICITY

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

#### +LIGHTWEIGHT

- The design and material optimisation make the block extremely light.

#### +PERFORMANCE

- The KBO block features a two stage bearing system from the KBO8 to enhance low friction.



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

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



► JO 2016 Rio. Bronze for Camille Lecointre & Hélène Defrance with their 470. Congrats!



► KBO10 bearings.



MODEL	PART NUMBER	SWL	WEIGHT	MAX LINE	BEST LINE	SHEAVE	SOFT SHACKLE
<b>KBO1 SIMPLE</b>	PF830030	0.15	0.010	6	5	22.5	MP551865
<b>KBO2 SIMPLE</b>	PF790030	0.22	0.026	8	7	32	MP551701
<b>KBO4 SIMPLE</b>	PF650030	0.40	0.028	8	7	32	MP551701
<b>KBO6 SIMPLE</b>	PF800030	0.60	0.047	10	9	38	MP551148
<b>KBO8 SIMPLE</b>	PF890030	0.85	0.080	12	11	47	MP551148
<b>KBO1 DOUBLE</b>	PF830030 [D]	0.25	0.018	6	5	22.5	MP553117
<b>KBO2 DOUBLE</b>	PF790030 [D]	0.35	0.050	8	7	32	MP553119
<b>KBO4 DOUBLE</b>	PF650030 [D]	0.65	0.066	8	7	32	MP553319
<b>KBO6 DOUBLE</b>	PF800030 [D]	0.95	0.103	10	9	38	MP553121
<b>KBO8 DOUBLE</b>	PF890030 [D]	1.30	0.148	12	11	47	MP553123
<b>KBO1 TRIPLE</b>	PF830030 [T]	0.35	0.025	6	5	22.5	MP553118
<b>KBO2 TRIPLE</b>	PF790030 [T]	0.45	0.072	8	7	32	MP553120
<b>KBO4 TRIPLE</b>	PF650030 [T]	0.90	0.084	8	7	32	MP553120
<b>KBO6 TRIPLE</b>	PF800030 [T]	1.30	0.148	10	9	38	MP553122
<b>KBO8 TRIPLE</b>	PF890030 [T]	1.80	0.213	12	11	47	MP553124



<b>KBO10</b>	PF660030	1.2	0.083	12	11	52	MP551148
<b>KBO15</b>	PF670030	1.8	0.143	14	13	63	MP551149
<b>KBO20</b>	PF680030	2.6	0.186	14	13	74	MP551149
<b>KBO20 WIDE</b>	PF680030 [L]	2.6	0.244	16	2 x 10	74	MP551150
<b>KBO30</b>	PF690030	3.5	0.334	16	15	97	MP551150
<b>KBO50</b>	PF810030	5	0.610	18	15	123	X

**NEW** From KBO10 to KBO50, it's now possible to order them as a snatch block version.

<b>KBO10 SNATCH</b>	PF660030 [OP]	1.2	0.083	12	11	52	MP551148
<b>KBO15 SNATCH</b>	PF670030 [OP]	1.8	0.143	14	13	63	MP551149
<b>KBO20 SNATCH</b>	PF680030 [OP]	2.6	0.186	14	13	74	MP551149
<b>KBO30 SNATCH</b>	PF690030 [OP]	3.5	0.334	16	15	97	MP551150
<b>KBO50 SNATCH</b>	PF810030 [OP]	5	0.610	18	17	123	X

## FOOT BLOCK MINIMUM DIMENSIONS

Karver technology is screwed to the deck!



MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	BEST LINE (mm)	SHEAVE (mm)
<b>KBO2FB</b>	PF790030 [FB]	0.22	0.025	8	7	32
<b>KBO4FB</b>	PF650030 [FB]	0.40	0.027	8	7	32
<b>KBO6FB</b>	PF800030 [FB]	0.60	0.046	10	9	38
<b>KBO8FB</b>	PF890030 [FB]	0.80	0.080	12	11	47
* Installation screws are provided.						
<b>KBO10FB</b>	PF660030 [FB]	1.20	0.114	12	11	52
<b>KBO15FB</b>	PF670030 [FB]	1.80	0.196	14	13	63
<b>KBO20FB</b>	PF680030 [FB]	2.60	0.261	14	13	74
<b>KBO30FB</b>	PF690030 [FB]	3.50	0.482	16	15	97

## RATCHET BLOCK REVERSIBLE

It doesn't matter which way you pass the line through the block!



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

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)
<b>KBO<sup>w</sup> RATCHET BLOCK</b>	PF760030	0.3	0.073	10	55



## TRIPLE BLOCK + CAM CLEAT LIGHTER PURCHASE SYSTEMS

The first triple block featuring the unmatched KJ3 cam cleat by Karver.



© Karver Systems

Delivered without the upper triple block.

MODEL	PART NUMBER	SWL (T)	WEIGHT (KG)	MAX LINE (mm)	SHEAVE (mm)
<b>KBO6J TRIPLE + CAM CLEAT</b>	<b>PF800030 [TKJ3]</b>	<b>0.8</b>	<b>0.348</b>	<b>10</b>	<b>38</b>



## SOFT SHACKLES MODERN SOLUTION



© Karver Systems

MODEL	PART NUMBER	SWL (T)
<b>ROPE SHACKLE 0.5T</b>	<b>MP551701</b>	<b>0.5</b>
<b>ROPE SHACKLE 1T</b>	<b>MP551148</b>	<b>1</b>
<b>ROPE SHACKLE 2T</b>	<b>MP551149</b>	<b>2</b>
<b>ROPE SHACKLE 4T</b>	<b>MP551150</b>	<b>4</b>
<b>HIGH LOAD STROP + T-BONE</b>	<b>PF084853 [SS]</b>	<b>5</b>
<b>HIGH LOAD STROP + T-BONE</b>	<b>PF110040 [SS]</b>	<b>8</b>
<b>HIGH LOAD STROP + T-BONE</b>	<b>PF030040 [SS]</b>	<b>12</b>
<b>HIGH LOAD STROP + T-BONE</b>	<b>PF034854 [SS]</b>	<b>16</b>



## VERSATILITY

# SIMPLICITY AND DESIGN

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



### +LIGHTWEIGHT

- 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 systems), or even just to tie it up (eg. to prevent capsizing).

### +SAFETY FEATURES

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



## 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 a very high load for a short distance (backstay, cunningham, boom vang, outhaul, etc).



MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)	LINK REF
<b>KB6</b>	PF190030 [GREY]	0.22	0.020	6	30	PL191142
<b>KB8</b>	PF040030 [GREY]	0.6	0.051	10	35	PL040774
<b>KB10</b>	PF020030	1	0.086	10	46	PL021143
<b>KB12</b>	PF180030	1.4	0.119	12	54	PL181094
<b>KB8C</b>	PF040031	0.8	0.044	8	33	PL041089
<b>KB10C</b>	PF020031	1.9	0.096	10	46	PL022210
<b>KB12C</b>	PF180031	3	0.167	12	56	PL182211

KB blocks are not provided with a soft shackle.

# KBR HIGH LOAD BLOCKS RANGE

The KBR range features our high load lashing blocks (from 1.5T and up to over 40T). Built with our low friction technology, it is dedicated to racers and Super Yachts. Available in 3 different materials: carbon, aluminum, and stainless steel. The carbon version can be covered with a thin layer of wood or leather. No matter which one you choose, your block will always feature:

- A reliable and resistant block design to handle high loads.
- A very low friction bearing mechanism under load.
- Titanium sheaves, a two-stage bearing technology with rollers in titanium and balls in ceramic.
- An anti-capsizing design.
- An enlarged inner diameter to enable multiple attachments through the center.



**KBR<sup>C</sup>**

CARBON



**KBR<sup>CW&L</sup>**

WOOD OR LEATHER



**KBR<sup>A</sup>**

ALUMINUM



**KBR<sup>OP</sup>**

SNATCH BLOCKS



**KBR<sup>M</sup>**

STAINLESS STEEL



# HIGH LOAD BLOCKS

## THE HIGHEST PERFORMING BLOCK ON THE MARKET

2% friction, carbon fibre, ceramic and titanium.



### +PERFORMANCE

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

### +LIGHTWEIGHT

- 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.



**KBr<sup>80</sup>**



The new design avoids any possible block capsizing.  
The closed structure prevents the block from being crushed.

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)
<b>YACHTS</b>					
<b>NEW KBRC15</b>	PF330001 [C]	1.5	0.090	12	49
<b>KBRC30</b>	PF330002 [C]	3	0.097	12	49
<b>KBRC50</b>	PF330003 [C]	5	0.175	14	64
<b>KBRC65</b>	PF330005 [C]	6.5	0.280	16	75
<b>KBRC80</b>	PF330007 [C]	8	0.385	18	89
<b>SUPER YACHTS</b>					
<b>KBRC105</b>	PF330009 [C]	10.5	0.557	18	102
<b>KBRC130</b>	PF330012 [C]	13	0.800	20	115
<b>KBRC160</b>	PF330016 [C]	16	1.080	20	135
<b>KBRC180</b>	PF330018 [C]	18	1.350	22	147
<b>KBRC250</b>	PF330025 [C]	25	2.017	30	160
<b>KBRC300</b>	PF330030 [C]	30	3.620	35	180
<b>KBRC400</b>	PF330040 [C]	40	4.980	40	206



## KBRc SPECIALS

### ELEGANT AND CLASSIC COVER

Yachties in the quest for the beauty will appreciate the upgrade in wood or leather while the block's performance remains unchanged.



**NEW**

SWL (T)	LEATHER MODEL	PART NUMBER	WOODEN MODEL	PART NUMBER
<b>YACHTS</b>				
1.5	<b>KBRCL15</b>	PF330001 [L]	<b>KBRCW15</b>	PF330001 [CW]
3	<b>KBRCL30</b>	PF330002 [L]	<b>KBRCW30</b>	PF330002 [CW]
5	<b>KBRCL50</b>	PF330003 [L]	<b>KBRCW50</b>	PF330003 [CW]
6.5	<b>KBRCL65</b>	PF330005 [L]	<b>KBRCW65</b>	PF330005 [CW]
8	<b>KBRCL80</b>	PF330007 [L]	<b>KBRCW80</b>	PF330007 [CW]
<b>SUPER YACHTS</b>				
10.5	<b>KBRCL105</b>	PF330009 [L]	<b>KBRCW105</b>	PF330009 [CW]
13	<b>KBRCL130</b>	PF330012 [L]	<b>KBRCW130</b>	PF330012 [CW]
16	<b>KBRCL160</b>	PF330016 [L]	<b>KBRCW160</b>	PF330016 [CW]
18	<b>KBRCL180</b>	PF330018 [L]	<b>KBRCW180</b>	PF330018 [CW]
25	<b>KBRCL250</b>	PF330025 [L]	<b>KBRCW250</b>	PF330025 [CW]
30	<b>KBRCL300</b>	PF330030 [L]	<b>KBRCW300</b>	PF330030 [CW]
40	<b>KBRCL400</b>	PF330040 [L]	<b>KBRCW400</b>	PF330040 [CW]



## HIGH LOAD ALUMINUM BLOCKS

More traditional than its sister ship, the KBRa block feature side plates made of aluminum and a two stage bearing mechanism with titanium rollers and Torlon® ball bearing for very low friction.

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)
<b>YACHTS</b>					
<b>KBRA30</b>	PF330002 [AL]	3	0.139	12	49
<b>KBRA50</b>	PF330003 [AL]	5	0.227	14	64
<b>KBRA65</b>	PF330005 [AL]	6.5	0.323	16	75
<b>KBRA80</b>	PF330007 [AL]	8	0.494	18	89
<b>SUPER YACHTS</b>					
<b>KBRA105</b>	PF330009 [AL]	10.5	0.660	18	102
<b>KBRA130</b>	PF330012 [AL]	13	0.994	20	115
<b>KBRA160</b>	PF330016 [AL]	16	1.321	20	135
<b>KBRA180</b>	PF330018 [AL]	18	1.667	22	147
<b>KBRA250</b>	PF330025 [AL]	25	2.522	30	160
<b>KBRA300</b>	PF330030 [AL]	30	4.480	35	180
<b>KBRA400</b>	PF330040 [AL]	40	6.152	40	206



## HIGH LOAD ALUMINUM SNATCH BLOCKS

The entire KBRa 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 soft shackle.

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)
<b>YACHTS</b>					
<b>KBRA65 SNATCH</b>	PF330005 [OP]	6.5	0.330	16	75
<b>KBRA80 SNATCH</b>	PF330007 [OP]	8	0.476	18	89
<b>SUPER YACHTS</b>					
<b>KBRA105 SNATCH</b>	PF330009 [OP]	10.5	0.630	18	102
<b>KBRA130 SNATCH</b>	PF330012 [OP]	13	0.964	20	115
<b>KBRA160 SNATCH</b>	PF330016 [OP]	16	1.291	20	135
<b>KBRA180 SNATCH</b>	PF330018 [OP]	18	1.637	22	147
<b>KBRA250 SNATCH</b>	PF330025 [OP]	25	2.492	30	160
<b>KBRA300 SNATCH</b>	PF330030 [OP]	30	4.450	35	180
<b>KBRA400 SNATCH</b>	PF330040 [OP]	40	6.122	40	206



KBRm

## MIX OF BEAUTY AND PERFORMANCE

The KBRm blocks feature the same low friction bearing technology as the KBR carbon. The side plates are made of polished stainless steel.

**KBR<sup>M</sup>**

**+KARVER**

### ADVANTAGES

- All the benefits of the modern KBR block in a classic version.
- Reliability with minimum maintenance.
- Compact & light.



MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)
<b>YACHTS</b>					
<b>KBRM15</b>	PF330001 [M]	1.5	0.205	12	49
<b>KBRM30</b>	PF330002 [M]	3.0	0.223	12	49
<b>KBRM50</b>	PF330003 [M]	5.0	0.405	14	64
<b>KBRM65</b>	PF330005 [M]	6.5	0.644	16	75
<b>KBRM80</b>	PF330007 [M]	8.0	0.897	18	89
<b>SUPER YACHTS</b>					
<b>KBRM105</b>	PF330009 [M]	10.5	1.264	18	102
<b>KBRM130</b>	PF330012 [M]	13.0	1.830	20	115
<b>KBRM160</b>	PF330016 [M]	16.0	2.490	20	135
<b>KBRM180</b>	PF330018 [M]	18.0	3.105	22	147
<b>KBRM250</b>	PF330025 [M]	25.0	4.600	30	160
<b>KBRM300</b>	PF330030 [M]	30.0	8.300	35	180
<b>KBRM400</b>	PF330040 [M]	40.0	11.450	40	206



## SHEAVES

# HIGH LOAD & LOW FRICTION

KDS sheaves feature 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.

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)	PIN (mm)
○ KDS25	PF980025 [FP]	2.5	0.098	12	65	12
○ KDS40	PF980040 [FP]	4	0.266	18	80	16
○ KDS60	PF980060 [FP]	6	0.419	24	100	26
○ KDS100	PF980100 [FP]	10	0.703	26	113	32
○ KDS150	PF980150 [FP]	15	1.382	28	160	60
○ KDS25	PF980025	2.5	0.098	12	65	12
○ KDS40	PF980040	4	0.266	18	80	16
○ KDS60	PF980060	6	0.419	24	100	26
○ KDS100	PF980100	10	0.703	26	113	32
○ KDS150	PF980150	15	1.382	28	160	60



**NEW**

The KDSTi is a combo between our KDS and KBR range.

The KDSTi is perfect for applications where friction should remain to the minimum.

Every parts is machined in titanium.

The bearing mechanism is the same as the one featured for our KBR blocks (2% friction only, made possible by high precision machining and design of the titanium rollers).

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)	PIN (mm)
○ KDSTi15	PF985253	1.5	105	12	50	12
○ KDSTi30	PF985254	3	120	12	50	12
○ KDSTi50	PF985255	5	261	14	64	16
○ KDSTi65	PF985256	6.5	388	16	75	20
○ KDSTi80	PF985257	8	536	18	89	26
○ KDSTi105	PF985258	10.5	858	18	102	30
○ KDSTi130	PF985259	13	1130	20	112	34
○ KDSTi160	PF985260	16	1646	20	130	38
○ KDSTi180	PF985261	18	2496	22	145	40
○ KDSTi250	PF985262	25	3672	30	160	46

Also available for flat pin.



## SHEAVE BOXES

# HIGH LOAD & LOW FRICTION



Our sheaves and 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.

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)	PIN (mm)
○ <b>KDSB25</b>	PF970025	2.5	0.279	12	65	12
○ <b>KDSB40</b>	PF970040	4	0.519	18	80	16
○ <b>KDSB60</b>	PF970060	6	0.967	24	100	26
○ <b>KDSB100</b>	PF970100	10	1.465	26	113	32
○ <b>KDSB150</b>	PF970150	15	2.904	28	160	60



## TITANIUM RINGS

# STRENGTH AND LIGHT WEIGHT

**+KARVER**

### ADVANTAGES

- A complete product line is now available. We can also produce custom rings per your specs.

Titanium is one of the preferred materials in our manufacturing process. Rings are a natural addition to our catalogue.



MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	OUTTER DIAM (mm)	INNER DIAM. (mm)	WIDTH (mm)
<b>KRTi35</b>	PL1024601	3.5	0.06	50	30	12
<b>KRTi45</b>	PL1024602	4.5	0.127	65	40	16
<b>KRTi60</b>	PL1024603	6	0.236	80	50	20
<b>KRTi70</b>	PL1024604	7	0.312	90	55	20
<b>KRTi150</b>	PL1024605	15	0.87	120	70	30
<b>KRTi250</b>	PL1024606	25	1.1	130	75	32
<b>KRTi400</b>	PL1024607	40	1.971	150	80	40

The jammer that won't give up!



**KJ**

HIGH LOAD JAMMER



**KJ** 2&3

CAM CLEAT



**KW**

WINCHLESS



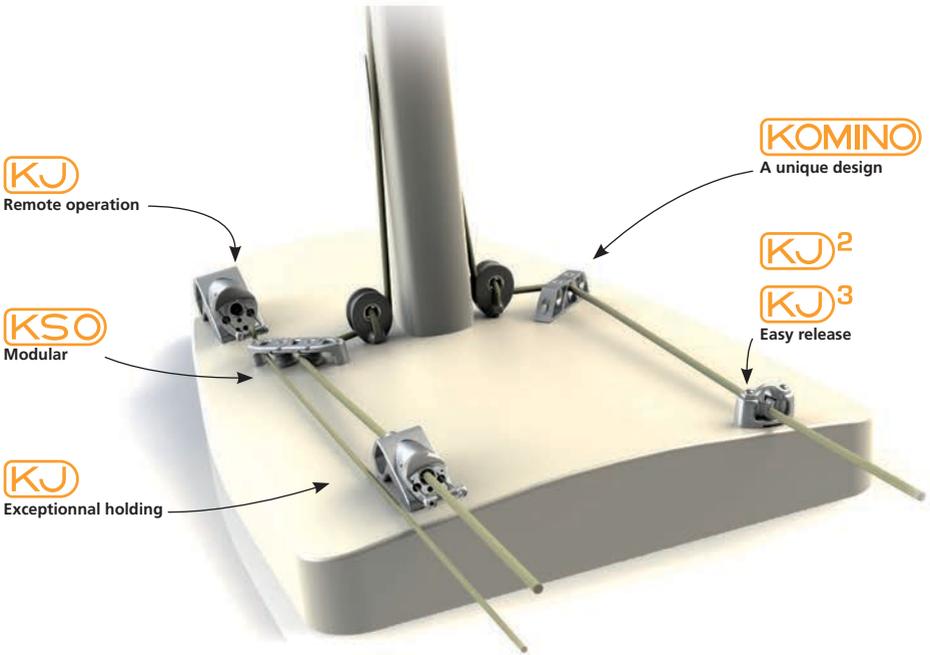
**KJH**

JAWS HANDLE

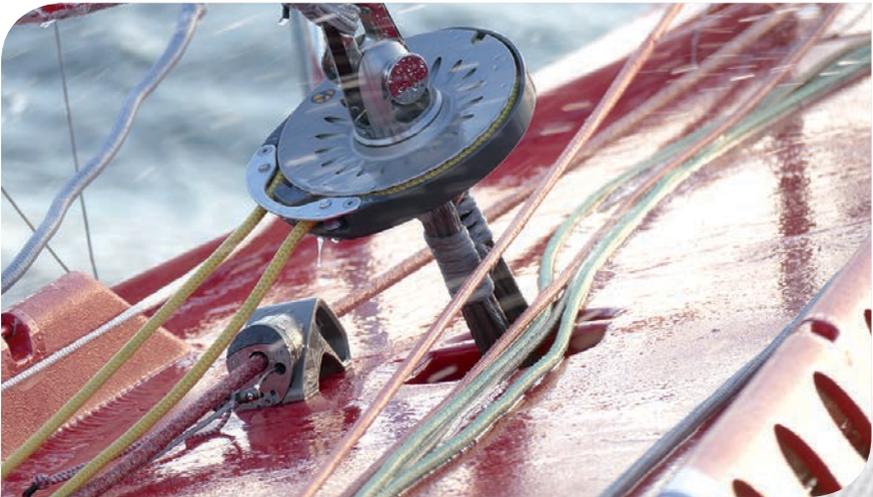
© Hudson Yachts H160

# KARVER: THE ROPE HOLDING SPECIALIST

Not everything can be locked all of the time which is why as rope specialists we needed to innovate in terms of holding and deck organization.



From the mast to the cockpit, organize and efficiently hold your lines.



© Initiatives cœur



## 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.



### +ROPE HOLDING

- No slipping when under high load. No rope wear.

### +PERFORMANCE

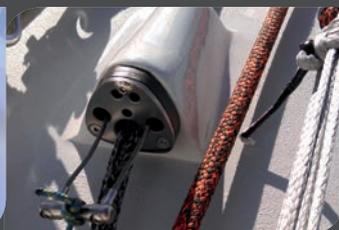
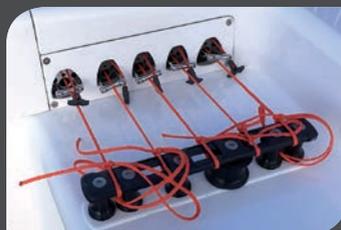
- Up to 50% lighter than the competition.
- Up to 3 different rope diameters can be used on the same jammer

### +SPECIAL FEATURES

- Remote control possible.
- Easy maintenance.



The conical KJ can be removed from its base and bonded into a casing on the deck or in the mast.



© Reichel Pugh/Baltic Yachts

MODEL	PART NUMBER	SWL (T)	MIN / MAX (mm)	BEST LINE (mm)	WEIGHT (Kg)	WEIGHT WITHOUT BASE	LENGTH X WIDTH X HEIGHT (mm)
<b>KJ10</b>	PF840100	0.4 - 1	5 - 10	8	0.236	0.128	98,1 x 44,2 x 52
<b>KJ15</b>	PF840150	0.6 - 1.5	6 - 12	10	0.340	0.186	111 x 49,2 x 57,8
<b>KJ25</b>	PF840250	1.1 - 2.5	8 - 14	12	0.600	0.330	135 x 57,2 x 64,5
<b>KJ50</b>	PF840500	2 - 5	12 - 20	18	1.050	0.560	160,5 x 70,4 x 81
<b>KJ100</b>	PF841000	6 - 10	20 - 32	28	2.980	1.640	245,2 x 102,1 x 114,5

MODEL	ALU CONE ONLY	CARBON CONE ONLY	IMPRINT
<b>KJ10</b>	PF840100 [CONE]	PF840100 [CONEC]	N/A
<b>KJ15</b>	PF840150 [CONE]	PF840150 [CONEC]	PL843800
<b>KJ25</b>	PF840250 [CONE]	PF840250 [CONEC]	PL843801
<b>KJ50</b>	PF840500 [CONE]	PF840500 [CONEC]	PL843802
<b>KJ100</b>	PF841000 [CONE]	PF841000 [CONEC]	PL843803

## 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 maximized to prevent rope wear.

Unrivaled holding power.

### ► OPERATION

The trip line (above) makes it possible to release the rope up to a load of 50 kg.

Over 50 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 conical body of the jammer 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 a single screw in its base.

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

Weight is kept to a minimum.

The KJ Jammer can be ordered without the bracket and be installed in a carbon socket.

It is possible to order the KJ jammer mould to facilitate the installation process.



It is possible and very easy to "remove" the mechanism that makes it possible to keep the KJ jammer in the "unlocked" position.

By doing such, it makes it easier to operate the jammer remotely with only 1 line.

A cam cleat can retain the line to have the jammer in the "unlocked" position.





## 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.



### +ADVANTAGES

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



MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	LENGTH X WIDTH X HEIGHT (mm)	MIN / MAX (mm)	BEST LINE (mm)
<b>WINCHLESS</b>	<b>PF840040</b>	<b>0.3</b>	<b>0.24</b>	<b>100 x 72 x 53</b>	<b>5 - 10</b>	<b>8</b>
<b>KMS30 Adapter</b>	<b>PF845329</b>	<b>0.3</b>	<b>0.24</b>	<b>100 x 72 x 53</b>	<b>5 - 10</b>	<b>8</b>



## CAM CLEAT

# HIGH PERFORMANCE

High strength and reliability.



MODEL	PART NUMBER	BODY MATERIAL	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	FASTENER SPACING (mm)
<b>KJ2 CAM CLEAT</b>	<b>PF840050</b>	<b>Fiber</b>	<b>0.200</b>	<b>0.045</b>	<b>10</b>	<b>38</b>
<b>KJ3 CAM CLEAT</b>	<b>PF840010</b>	<b>Aluminum</b>	<b>0.310</b>	<b>0.069</b>	<b>10</b>	<b>38</b>
<b>FAIRLEAD KJ2/KJ3 CAM CLEAT</b>	<b>SF842531</b>	<b>-</b>	<b>-</b>	<b>0.009</b>	<b>10</b>	<b>38</b>



## CAM BASES UNIVERSAL

Assembled with the KJ cam cleat, compact and weight optimized.



► Swivel cleat bases for ratchet block\*



► Swivel cleat bases with eye\*\*

MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)	ARM LENGTH (mm)
<b>KSC SHORT - EYE &amp; KJ3</b>	PF840030	0.2	0.195	10	72
<b>KSC SHORT - LASHING &amp; KJ3</b>	PF840031	0.2	0.179	10	72
<b>KSC LONG - EYE &amp; KJ3</b>	PF840033	0.2	0.199	10	93
<b>KSC LONG - LASHING &amp; KJ3</b>	PF840032	0.2	0.19	10	93

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



## JAWS HANDLE UNIQUE TO THE MARKET!

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



### APPLICATION

- An efficient trimmer tool which pulls hard on a small diameter line.
- Free up a winch when striking a new sail
- Flying stopper
- Hold a halyard that is stuck



MODEL	PART NUMBER	SWL (T)	WEIGHT (Kg)	MAX LINE (mm)
<b>KJH YELLOW</b>	PF840020	0.110	0.130	10
<b>KJH GREY</b>	PF840020 [GRIS]	0.110	0.130	10

Light, attractive machinery!



This low friction organizer is lightweight and designed to handle high loads.

© Kanver Systems

MODEL	PART NUMBER	SWL 60° (T)	WEIGHT (Kg)	MAX DIAM (mm)	HOLES
<b>KORG18-1</b>	PL781679	1.000	0.085	18	1
<b>KORG18-1W</b>	PL781678	1.000	0.111	18	1
<b>KORG18-2</b>	PL781440	1.000	0.147	18	2
<b>KORG18-3</b>	PL781043	1.000	0.205	18	3
<b>KORG18-4</b>	PL781265	1.000	0.328	18	4
<b>KORG18 CUSTOM</b>	PL781180	-	-	18	-
<b>KORG22-1</b>	PL784859	2.000	0.092	22	1
<b>KORG22-1W</b>	PL784860	2.000	0.186	22	1
<b>KORG22-2</b>	PL784861	2.000	0.222	22	2
<b>KORG22-3</b>	PL784862	2.000	0.280	22	3
<b>KORG22-4</b>	PL784863	2.000	0.403	22	4
<b>KORG22 CUSTOM</b>	PL784865	-	-	22	-
<b>KORG30-1</b>	PL784866	3.000	0.289	30	1
<b>KORG30-1W</b>	PL784867	3.000	0.383	30	1
<b>KORG30-2</b>	PL784868	3.000	0.418	30	2
<b>KORG30-3</b>	PL784869	3.000	0.478	30	3
<b>KORG30-4</b>	PL784870	3.000	0.601	30	4
<b>KORG30-CUSTOM</b>	PL784871	-	-	30	-

# KOMINO

## ORGANIZERS WELL DESIGNED AND LIGHT!

The Komino fairleads simply assemble together.



Low friction deck organizer for low angles.

MODEL	PART NUMBER	SWL 60° (T)	WEIGHT (Kg)	MAX LINE (mm)
<b>KOMINO SIMPLE</b>	PL843946	0.380	0.033	12
<b>KOMINO INTER</b>	PL843945	0.380	0.038	12

# KSO

## ORGANIZERS YOU CAN STACK THEM UP!

**NEW**



Low friction deck organizer featuring a plain bearing sheave, each component can fit into another and be installed as a curve. The fastening pattern makes it possible to install a KJ2 or KJ3 cam cleat on top of it.

MODEL	PART NUMBER	SWL 60° (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)	SHEAVE
<b>KSO8 - FIRST (INCLUDE 1 SHEAVE)</b>	PF784531	0.85	0.045	14	30	1
<b>KSO8 - ADDITIONAL SHEAVE</b>	PF784533	0.85	0.036	14	30	1
<b>KSO8 - LAST (NO SHEAVE)</b>	PF784532	0.85	0.031	14	-	0
<b>KSO12 - START (INCLUDE 1 SHEAVE)</b>	PF784634	1.2	0.115	16	40	1
<b>KSO12 - ADITIONAL SHEAVE</b>	PF784635	1.2	0.092	16	40	1
<b>KSO12 - END (NO SHEAVE)</b>	PF784636	1.2	0.066	16	-	0

To order a complete KSO: PF784533 [3] for a KSO8 3 sheaves. PF784635 [6] for a KSO12 6 sheaves.



**KMS** 30



**KMS** 40



**KMS** 60



**KMS** 80 & 100

## 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, compact and lightweight.

### 4 reasons to choose a Karver mast system:

- An extremely optimized product line for greater performance
- Modern design and continual innovation
- Reliable and efficient locking solutions
- An unmatched capacity to produce custom systems in a short timeframe



© Karver Systems

CHARACTERISTICS	UNIT	KMS30	KMS40	KMS60	KMS80	KMS100
Yacht size	ft	< 35	35-50	50-70	70-110	100-140
Track upper width	mm	19.6	21	29	34	48
Base track width	mm	19.6	24	29	34	48
Track height	mm	6.6	12.2	14	16	22.5
Weight / m - Standard	g / m	250	304	488	664	1490
Weight / m - Lightened	g / m	X	X	418	564	1245
Length	m	2	3	3 & 6	3 & 6	3 & 6
Fastener	mm	6	5 or 6	6	8	10
Standard fastening space	mm	250	300	250	500	500
Headboard with lock	-	N/A	YES	YES	YES	YES
Batten cars - Standard pin	-	M10	M10	M14	M16	M18

Our mast cars are designed to fit some competitor tracks.

MODEL	HARKEN	RONSTAN	ANTAL
<b>KMS30</b>	AA	Serie 14	X
<b>KMS40</b>	A, ST18	Series 19 & 22	HS22
<b>KMS60</b>	B, ST26	Series 22 & 22	HS22, HS24, HS30
<b>KMS80</b>	C, ST32	Serie 26	HS30
<b>KMS100</b>	ST50	Series 30 & 42	X

- > A track section can be ordered with reinforced and enlightened sections
- > Batten car screw diameter & length can be modified
- > Our mast cars can be installed on many competitor tracks. Please ask us!
- > You can use ball bearing and friction cars on the same track
- > Batten receptacles can be ordered for other batten models

# KARVER MAST SYSTEMS

▶ Locking area track

▶ Track joiner

▶ Standard track

▶ Track joiner

▶ Custom track reinforced + alighten zones

▶ Car charger



▶ Standard headboard car car + sail plate



▶ Lashing headboard car



▶ Lashing locking headboard car



▶ Gaff lock headboard car (P. 50)



▶ 2:1 headboard car

**NEW**



▶ Automatic locking headboard car (P. 51)



▶ Square top batten car fast pin



▶ Square top batten reinforced car

## LONG DESIGN

## COMPACT DESIGN



▶ Batten cars



▶ Intermediate car



▶ Tack/reef car lighten



▶ Battcar with fuse (P. 50)



▶ Reinforced battcar without fuse



▶ Intermediate car



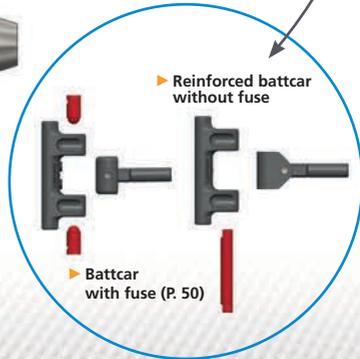
▶ Tack/reef car



▶ Batten receptacle (P. 51)



**NEW**



▶ Reinforced battcar without fuse

▶ Battcar with fuse (P. 50)



▶ Track endstop

## FEATURES AND BENEFITS

### TRACKS



- All our tracks are precision made
- Possibility to reinforce zones where reefs will be taken
- Possibility to lighten zones where loads will be minimized
- Possibility to mix reinforce, lighten & locking zones on the same track section
- Permanent stock of raw track to shorten lead time for custom machinery
- Ball bearing or sliders cars fitting on the standard track shape

### CARS



#### GENERAL:

- Ultra compact, light & modern design
- Machined cars for better reliability & resistance
- Toggles on the cars are close to the mast aft face to limit tearing risks
- All cars are available with a short or long design to fit the right load
- All cars can be ordered with ball bearings but we recommend the friction
- Sliders made of self-lubricated material for lower friction & limited wear
- As every project is unique, custom cars are available on request (60% of our sales)
- We can shape our car sliders to fit competitor's track.



#### HEADBOARD CARS:

- Many headboard car configurations with or without lock
- 2 to 1 Gaff lock developed to easily hoist and flake square top mainsails
- Locking headcar: external and/or internal remote control with or without position sensor.

**NEW**



#### TOP BATTEN CAR:

- Available with or without fast pin
- Optimized angular displacement for the batten box screw



#### BATTEN CARS:

- Our batten cars feature a fuse mechanism to prevent any damage to the cars or the track if overloaded
- Reinforced version available (without fuse)

#### INTERMEDIATE CARS:

- Ultra compact design & light (machined in one piece)



#### REEF/TACK CARS:

- A reinforced car for the highest load

#### BATTEN RECEPTACLES:

- Many batten receptacle models available
- New "Rocket" design





## GAFF LOCK SIMPLE IS BEAUTIFUL!

© Karver Systems



The KGL Gaff Lock was design to facilitate the process of hoisting and flaking big square top mainsails.

The system is simple and reliable and can be feautred on existing tracks and cars (even from our competitors).

There is one restriction to it though, the KGL Gaff Lock would only work if the mainsail of the halyard can pass through a sheave the furthest aft of the masthead.

MODEL	SWL (T)	Best line (mm)	KGL ONLY	KGL + KMS HB CAR	HIGH LOAD STROPE
<b>KGL30</b>	<b>0.25</b>	<b>7</b>	<b>PF1044813</b>	<b>PF1044813 [CHRT]</b>	<b>MP1044826</b>
<b>KGL40</b>	<b>3</b>	<b>14</b>	<b>PF1404581</b>	<b>PF1404581 [CHRT]</b>	<b>MP1404478</b>
<b>KGL60</b>	<b>6</b>	<b>16</b>	<b>PF1604748</b>	<b>PF1604748 [CHRT]</b>	<b>MP1604479</b>
<b>KGL80</b>	<b>8</b>	<b>18</b>	<b>PF1804749</b>	<b>PF1804749 [CHRT]</b>	<b>MP1804828</b>

Please contact us to custom made our KGL Gaff lock to your existing set of cars. Some references already available:

- Harken : AA, A, B, C, ST18, ST26, ST32
- Ronstan : Series 14, 19, 22, 26
- Antal : HS22, HS24, HS30



## BATTEN CAR FUSES NEVER BREAK A BATTEN AGAIN!



Racing yachts and big boats often have mainsails with long carbon battens that can be fragile and difficult to replace after a breakage.

Our KMS40 and KMS60 batten cars can feature an anti-breakage mechanism that will protect the battens.

If overloaded, after an accidental gybe for instance, the part will shear and free the batten pin before damaging the battens.

You would only have to change the fuse then.



## AUTOMATIC HEADBOARD CAR LOCK



Many sailboats feature our locking headboard cars for their mainsail. Many of the Imoca are doing so, for instance.

To ease the way to operate the system and make it more mainstream, we have designed an automated version of our headboard car lock to be reliable and easy to use: flippers are fitted around each locking area.

The locking mechanism of the headboard car automatically engages once it is in contact with the flippers. An external command remains on the car as a back up.

MODEL	PART NUMBER	NB OF INSERTS	SAFE WORKING LOAD	CAR LENGTH	WEIGHT
<b>KMS40</b>	PF1403036	1	3	140	0.284
<b>KMS60</b>	PF1602999	1	5	200	0.589
<b>KMS80 / 7T</b>	PF1605431	1	7	200	1.100
<b>KMS80 / 12 T</b>	PF1804657	2	12	350	2.400
<b>KMS100</b>	PL1004957	2	20	400	3.100

CHARACTERISTICS	PART NUMBER	<b>KMS40</b>	<b>KMS60</b>	<b>KMS80</b>	<b>KMS100</b>
Flipper x 1	PF1405511	PF1804655	PF1804655	PF1804655	PF1405515
Exit box with cam cleat for flipper command	PF1405512	PF1805476	PF1805476	PF1805476	PF1405516
Position sensor display	PF1405513	PF1804793	PF1804793	PF1804793	PF1405517
Installation tool for flipper and sensor	PF1405514	PF1605510	PF1804760	PF1804760	PF1405518



## LASHING BATTEN RECEPTACLES

In partnership with one of the biggest sail loft in the world, we designed a new batten receptacle made of one-piece and fitted symmetrically within the sail to optimize the air laminar flow.

The finished part is compact, light and can fit several sizes of carbon battens.

MODEL	MAX BATTEN	STD. PIN	OPTIONS	MATERIAL	MONOBLOC REF.	ADJUSTABLE REF.
<b>KMS40</b>	14 x 30	M10	M6/M8	PA6	PF1414886	PF1415507
<b>KMS60</b>	14 x 30	M14	M10/M12	PA6	PF1614541	PF1615454
<b>KMS60</b>	14 x 30	M14	M10/M12	ALU	PF1614568	PF1615450
<b>KMS80</b>	20 x 40	M16	M12/M14	ALU	PF1815148	PF1815348
<b>KMS100</b>	26 x 39	M18	M14/M16	ALU	PF1015508	PF1015509



The lashing batten receptacles comes as complementary products to our line of standard batten receptacles.

The KMS 30 range is designed for yachts from 20 to 35 feet long. Minimal friction in a compact and lightweight range.



MODEL	STD	PART NUMBER	WEIGHT (Kg)	HEIGHT (mm)
<b>TRACKS</b>				
TRACK 22mm STANDARD (M6/25 mm)	STD	PF1042549	0.250 / m	2000
LOCKING AREA	-	PF1045086	0.211	300
<b>HEADBOARD CARS</b>				
HEADBOARD CAR STANDARD	STD	PF1044878	0.110	81
HEADBOARD CAR LASHING	-	PF1043734	0.073	81
<b>NEW</b> HEADBOARD CAR GAFF LOCK	-	PF1044813 [CHRT]	0.860	88
LOCKING HEADBOARD CAR	-	PF1045087	0.120	86
<b>BATTEN CARS</b>				
BATTCAR M10	STD	PF1043362	0.043	40
<b>TACK / REEF CARS</b>				
TACK / INTERMEDIATE CAR	STD	PF1043735	0.023	40
<b>INTERMEDIATE CARS</b>				
TACK / INTERMEDIATE CAR	STD	PF1043735	0.023	40
<b>ACCESSORIES</b>				
TRACK JOIGNER	STD	PL1044872	0.013	50
TRACK END STOP	STD	PL1044873	0.022	25
CAR LOADER	-	PL1044874	0.040	150
GAFF LOCK (ONLY)	-	PF1044813	0.045	62
HR STROPE FOR GAFF LOCK	-	MP1044826	0.020	80
<b>BATTEN RECEPTACLES</b>				
BATTEN BOX M10	-	PF1043321	0.080	-

The KMS40 range benefits from Karver's knowledge of mainsail track systems.

Available for boats from 35 to 50 feet long for unrivalled performance and reliability.



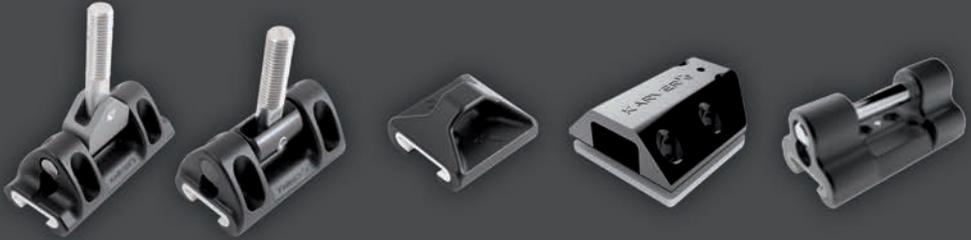
MODEL	STD	PART NUMBER	WEIGHT (Kg)	HEIGHT (mm)
<b>TRACKS</b>				
21MM STANDARD TRACK (M5 / 30 mm) 2,85M	STD	PF1402711	0.304 g /m	3000
REINFORCED TRACK (M5CSH / 30 mm) 2,85M	-	PF1404875	0.295 g /m	3000
LOCKING AREA	-	PF1403564	0.136	525
<b>HEADBOARD CARS</b>				
HEADBOARD CAR - STANDARD	STD	PF1403035	0.388	140
HEADBOARD CAR - LASHING	-	PF1402992	0.279	140
HEADBOARD CAR - LOCK + LASHING	-	PF1403036	0.284	140
HEADBOARD CAR - GAFF LOCK	-	PF1404581 [CHRT]	0.842	153
<b>SQUARE TOP BATTEN CARS</b>				
SQUARE TOP BATTCAR FAST PIN M10	STD	PF1404876	0.220	70
<b>BATTEN CARS</b>				
BATTCAR REINFORCED M10 WITHOUT FUSE	STD	PF1402710 [R]	0.102	70
BATTCAR M10 WITH FUSE	-	PF1402710	0.149	70
BATTCAR M10 WITH FAST FUSE	-	PF1403020	0.155	70
<b>TACK / REEF CARS</b>				
TACK / REEF CAR	STD	PF1403031	0.250	70
<b>INTERMEDIATE CARS</b>				
INTERMEDIATE CAR	STD	PL1403588	0.025	50
<b>ACCESSORIES</b>				
REMOVABLE TRACK DOOR	STD	PF1403054	0.094	200
TRACK DOOR - CAR CHARGER	STD	PF1404052	0.071	210
TRACK ENDSTOP (x1)	-	PL1403277	0.011	25
TRACK JOINER	-	PL1404013	0.007	50
REINFORCED INSERT	-	PL1404880	0.017	50
HL STROPE FOR GAFF LOCK	STD	MP1404478	0.400	80
GAFF LOCK ONLY	-	PF1404581	0.473	127

> The standard batten car screw is M10 but can be ordered with M8 or M12.

> Our mast cars can be installed on many competitor tracks. Please ask us!

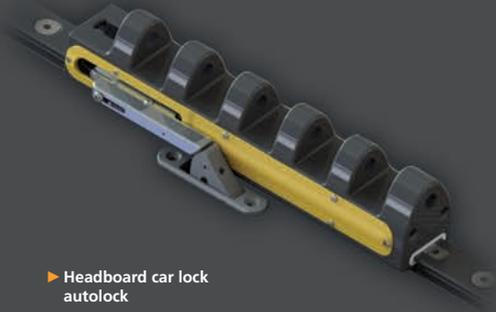
> A complete range of batten receptacles is available.

MODEL	STD	PART NUMBER	WEIGHT (Kg)	HEIGHT (mm)
<b>TRACKS</b>				
STANDARD 29MM TRACK (M6 / 25 mm) 3M	STD	PF1602744 [3M]	0.488 g/m	3000
REINFORCED 29MM TRACK (M6CSH / 25 mm) 3M	-	PF1604883 [3M]	0.480 g/m	3000
ENLIGHTED V1 29MM TRACK (M6 / 50 mm) 3M	-	PF1604882 [3M]	0.429 g/m	3000
ENLIGHTED V2 29MM TRACK (M6 / 75 mm) 3M	-	PF1604881 [3M]	0.423 g/m	3000
ENLIGHTED V3 29MM TRACK M6 / 100 mm) 3M	-	PF1604888 [3M]	0.418 g/m	3000
LOCKING TRACK	-	PF1603545	0.380 g/m	400
CUSTOM KMS60 TRACK	-	PF1602744 [CUST]	-	-
<b>HEADBOARD CARS</b>				
STANDARD HEADBOARD CAR	STD	PF1604050	0.496	200.00
HEADBOARD CAR + 2:1 BLOCK + LASHING	-	PF1603271	0.827	200
HEADBOARD CAR + LOCK + LASHING	-	PF1602999	0.589	200
HEADBOARD CAR DOUBLE LASHING	-	PF1604321	0.496	180
<b>NEW</b> HEADBOARD CAR + GAFF LOCK	-	PF1604748 [CHRT]	1.347	201
CUSTOM KMS60 HEADBOARD CAR	-	PF1604050 [CUST]	-	-
<b>SQUARE TOP BATTEN CARS</b>				
SQUARE TOP BATTCAR L110 M14 + FAST PIN	STD	PF1604209	0.380	110
BATTCAR REINFORCED L110 M14	-	PF1602778	0.320	110
<b>BATTCARS</b>				
BATTCAR L90 M14 + FAST FUSE		PF1602878 [90]	0.302	90
BATTCAR L110 M14 + FAST FUSE		PF1602878	0.317	110
BATTCAR REINFORCED L90 M14	STD	PF1602778 [90]	0.338	90
BATTCAR REINFORCED L110 M14		PF1602778	0.423	110
<b>BALL BEARING BATTCARS</b>				
BALL BEARING SQUARE TOP BATTCAR L113 M14 FAST PIN		PF1603507	0.410	113.40
BALL BEARING BATTCAR L93 M14 + FAST FUSE		PF1602939 [90]	0.390	90
BALL BEARING BATTCAR L113 M14 + FAST FUSE		PF1602939	0.557	116
BALL BEARING BATTCAR REINFORCED L93 M14		PF1604890 [90]	0.405	90
BALL BEARING BATTCAR REINFORCED L113 M14		PF1604890	0.560	110



MODEL	STD	PART NUMBER	WEIGHT (Kg)	HEIGHT (mm)
<b>TACK OR REEF CARS</b>				
TACK / REEF CAR L90	-	PF1602942	0.227	90
TACK / REEF CAR L110	STD	PF1602944	0.260	110
TACK / REEF ALIGHTEN MONOBLOC	-	PF1602943	0.189	110
<b>INTERMEDIATE CARS</b>				
INTERMEDIATE CAR 50MM (PA6)	-	PF1602932	0.026	50
INTERMEDIATE CAR 50MM (ALU)	STD	PF1602881	0.062	50
INTERMEDIATE CAR 70MM (ALU)	-	PF1604433	0.095	70
<b>ACCESSORIES</b>				
TRACK JOINER	STD	PL1603525	0.018	50
REINFORCED INSERT	-	PL1603528	0.018	50
TRACK ENDSTOP	STD	PF1604883	0.055	50
TRACK DOOR - CHARGER	STD	PF1604849	0.012	200
GAFF LOCK ONLY	-	PF1604748	0.907	148.60
HIGH LOAD STROP FOR GAFF LOCK	-	MP1604479	0.220	110
<b>BATTEN RECEPTACLES</b>				
BATTEN RECEPTACLE 30x20 M14 (ALU)	-	PF1612889	0.348	-
BATTEN RECEPTACLE 39x20 M14 (PA6)	-	PF1612891	0.180	-
BATTEN RECEPTACLE 39x20 M14 (ALU)	-	PF1682883	0.465	-
BATTEN RECEPTACLE 30x20 FOR TOP BATTEN M14 (PA6)	-	PF1613257	0.196	-
BATTEN RECEPTACLE 30x20 FOR TOP BATTEN M14 (ALU)	-	PF1604920	0.348	-
<b>NEW</b> BATTEN RECEPTACLE "ROCKET" 14x30 M14 (PA6) MONOBLOC	-	PF1614541	0.112	105 x 106 x 30
<b>NEW</b> BATTEN RECEPTACLE "ROCKET" 14x30 M14 (PA6) ADJUSTABLE	-	PF1615454	0.255	165 x 103 x 30
<b>NEW</b> BATTEN RECEPTACLE "ROCKET" 14x30 M14 (ALU) MONOBLOC	-	PF1614568	0.277	105 x 106 x 30
<b>NEW</b> BATTEN RECEPTACLE "ROCKET" 14x30 M14 (ALU) ADJUSTABLE	-	PF1615450	0.529	165 x 103 x 30

- > Track lengths are available in 3 or 6 meters or custom.
- > A track section can be ordered with reinforced and enlightened sections.
- > The standard batten car screw is M14 but can be ordered with M12 or M16.
- > Our mast cars can be installed on many competitor tracks. Please ask us!
- > You can use ball bearing and friction cars on the same track.
- > Batten receptacles can be ordered for others batten models.



▶ Headboard car lock autolock

MODEL	STD	PART NUMBER	WEIGHT (Kg)	HEIGHT (mm)
<b>TRACKS</b>				
STANDARD 34MM TRACK (M8 / 25 mm) 3M	STD	PF1804542	0.664 / m	3000
ENLIGHTED 34MM TRACK (M8 / 25 mm) 3M	-	PF1804543	0.579 / m	3000
REINFORCED 34 MM TRACK (M8CSH / 25 mm ) 3M	-	PF1804544	0.664 / m	3000
REINFORCED 34 MM TRACK (M8CSH / 25 mm ) 0,8M	-	PF1804545	0.664 / m	800
LOCKING AREA (DOUBLE) IN THE TRACK	-	PF1804548	1.22	800
LOCKING AREA LATERAL SIDE OF THE TRACK	-	PF1804549	1.28	800
LOCK TRIGGER BOX (INTERNAL REMOTE CONTROL)	-	PF1804655	0.148	66
CUSTOM KMS80 TRACK	-	PF1804542 [CUST]	x	x
<b>HEADBOARD CARS</b>				
HEADBOARD CAR STANDARD	STD	PF1804690	2.2	280
HEADBOARD CAR 2:1 LASHING	STD	PF1805263	1.578	280
<b>NEW</b> HEADBOARD CAR DOUBLE LOCK + LASHING	-	PF1804691	2.6	400
HEADBOARD CAR WITH LATERAL LOCK	-	PF1804549	3.7	400
HEADBOARD CAR + GAFF LOCK	-	PF1804749 [CHRT]	2.1	300
HEADBOARD CAR CUSTOM	-	PF1804692	x	x
<b>SQUARE TOP BATTEN CARS</b>				
BATTCAR 140MM SQUARE TOP BATTEN M16	STD	PF1804677 [M16]	0.727	140
BATTCAR 140MM REINFORCED M16	-	PF1804695 [M16]	0.65	140
<b>BATTEN CARS</b>				
BATTCAR L110 REINFORCED M16	-	PF1804694 [M16]	0.56	110
BATTCAR L140 REINFORCED M16	STD	PF1804695 [M16]	0.60	140

MODEL	STD	PART NUMBER	WEIGHT (Kg)	HEIGHT (mm)
<b>BALL BEARING BATT-CARS</b>				
BALL BEARING SQUARE TOP BATT-CAR L140 M16 FAST PIN	-	PF1804898	0.750	156
BALL BEARING BATT-CAR L110 M16 + FAST FUSE	-	PF1804894	0.532	126
BALL BEARING BATT-CAR L110 M16 + FAST FUSE	-	PF1804895	0.575	156
BALL BEARING BATT-CAR REINFORCED L110 M16	-	PF1804896	0.580	126
BALL BEARING BATT-CAR REINFORCED L140 M16	-	PF1804897	0.637	156
<b>TACK OR REEF CARS</b>				
TACK / REEF CAR L140	STD	PF1804686	0.481	140
<b>INTERMEDIATE CARS</b>				
INTERMEDIATE CAR 70MM (PA6)	-	PF1803454	0.100	70
INTERMEDIATE CAR 70MM	STD	PF1804688	0.204	70
<b>ACCESSORIES</b>				
TRACK JOINER / REINFORCED INSERT 100MM	STD	PF1804546	0.06	100
KMS POSITION SENSOR + 90° PLUG	-	PF1804793	x	x
POSITION SENSOR DISPLAY	-	MP1804795	x	x
TRACK DOOR - CAR CHARGER	STD	PF1804547	0.298	500
GAFF LOCK ONLY	-	PF1804749	1.100	197
HIGH LOAD STROP FOR GAFF LOCK	-	MP1804828	0.500	200
TRACK ENDSTOP x 1	-	PF1804763	0.099	60
MAINSAIL HEAD PLATE 30°	-	PF1805369	2.550	x
MAINSAIL HEAD PLATE 60°	-	PF1804750	2.700	x
MAINSAIL HEAD PLATE 90°	-	PF1805534	2.900	x
<b>BATTEN RECEPTACLES</b>				
BATTEN RECEPTACLES 26x39 M16 (ALU)	-	PF1812883 [M16]	0.735	120 x 95 x 26
<b>NEW</b> BATTEN RECEPTACLE "ROCKET" 20x40 M16 (ALU) MONOBLOC	-	PF1815148	0.402	125 x 118 x 35
<b>NEW</b> BATTEN RECEPTACLE "ROCKET" 20x40 M16 (ALU) ADJUSTABLE	-	PF1815348	0.755	185 x 120 x 35

- > Track lengths are available in 3 or 6 meters or custom.
- > A track section can be ordered with reinforced and enlighthed sections.
- > The standard batten car screw is M16 but can be ordered with M12 or M14.
- > Our mast cars can be installed on many competitor tracks. Please ask us!
- > You can use ball bearing and friction cars on the same track.
- > Batten receptacles can be ordered for others batten models.

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MODEL	PART NUMBER	WEIGHT (Kg)	HEIGHT (mm)
<b>TRACKS</b>			
STANDARD 48MM TRACK 3M	PF1004550 [3M]	1.490	3000
REINFORCED 48MM TRACK 3M	PF1004953	1.490	3000
ENLIGHTED 48MM TRACK 3M	PF1004954	1.245	3000
EXTRA ENLIGHTED 48MM TRACK 3M	PF1004955	1.050	3000
LOCKING AREA	PF1004956	1.205	800
<b>HEADBOARD CARS</b>			
HEADBOARD CAR	PF1004912	2.500	280
HEADBOARD CAR + LOCK	PF1004957	2.800	400
<b>BATTEN CARS</b>			
TOP BATTCAR FAST 140MM M18 (FAST PIN)	PF1004913	1.050	140
BATTCAR REINFORCED 140 MM M18	PF1004914	0.850	140
<b>INTERMEDIATE / REEF / TACK CARS</b>			
INTERMEDIATE CAR 70MM	PF1004915	0.290	70
INTERMEDIATE CAR 110MM	PF1004916	0.450	110
TACK / REEF CAR 140MM	PF1004917	1.130	140
<b>NEW</b> BATTEN RECEPTACLE "ROCKET" 26x39 M16 (ALU) MONOBLOC	PF1015508	0.610	145 x 125 x 40
<b>NEW</b> BATTEN RECEPTACLE "ROCKET" 26x39 M16 (ALU) ADJUSTABLE	PF1015509	0.820	205 x 125 x 40

All cars are available with ball bearings.  
 KMS100 is an ultra customizable range of tracks and cars.  
 Call us to share your project.

## Contact us

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Tanguy de LARMINAT - **Commercial & Marketing Director**

Jean Philippe CONNAN - **Design Office Engineer / Racing Project Manager**

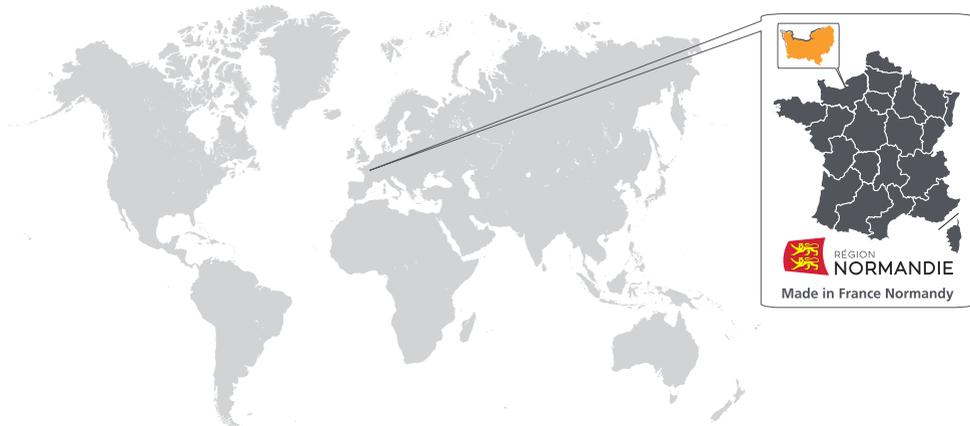
Nicolas COMBY - **Sales manager (International)**

Alois KERDUEL - **Sales manager (France)**

## Worldwide coverage

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**16 years sailing the seas and oceans of the world**



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- **70% sales income outside of France**

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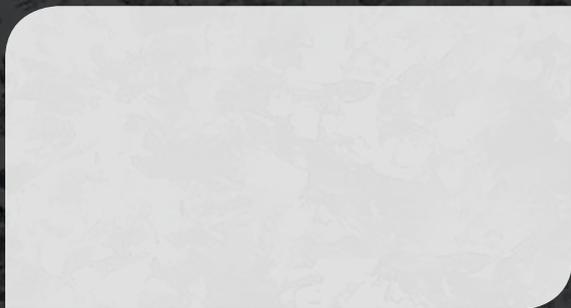
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