



2020  
ENGLISH CATALOG V.1

KFV3  
Soon!

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



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Our working loads are Maximum Working Loads (MWL).  
 The information and data published in this catalog may differ from actual data.  
 Products may be discontinued without prior notice.  
 The latest version of our catalog is always available on our website

**KARVER'S**  
 PURE PERFORMANCE DECK & MAST GEAR

## OUR MARKETS



CRUISING



RACING



SUPER YACHT

## PRODUCT LINES



FURLERS



LOCKS



BLOCKS



JAMMERS



WINCHES



TRACKS & CARS

## OBSESSIONS



## MESSAGE FROM CEO

*80% of the boats in the last Transat Jacques Vabre are fitted with Karver equipments, reliability and lightness are still the choice of the great navigators, we are close to the full fleet and it is the natural target for the coming year!*

*Our new high performance winches are available and are now used with a new carbon fiber winch handle. Sailboats continue to evolve towards performance, we carry on our research to develop products to reduce efforts while simplifying sails tuning.*

*In order to be even closer to our customers, we have just opened an office and commercial showroom in Brittany in Lorient. All our latest innovations are presented and we will be happy to guide you to the best choice that will make your sailing more enjoyable.*

*Fair Winds.*





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

SOON



KF V3



**KF**

FURLERS



**KSF**

TOP DOWN SPINNAKER FURLERS



**KFx**

STRUCTURAL 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

**▶ 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.

**▶ 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 or carbon drums, the composite spool around the drum is shock absorbent and protects the drum, the sail and the deck from impact.

**▶ QUICK USE CAPTIVE PINS**  
A new quick fit mechanisms makes the maneuver still easier and faster. The pins are captive.  
HR shackle is standard on the swivel up to and including KF5.

**▶ 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.

**KF5**

# A NEW FURLER GENERATION FROM KARVER: LEADING THE WAY!

The KF V3 furler range\* sums up 18 years of offshore racing and cruising experience.  
Now available and optimized in 4 versions:

Standard

Racing

Classic

Structural

NEW

## KF<sup>V3</sup>\*



\* 3rd generation of Karver furlers.

**A unique combination of Performance,  
Reliability, Innovation, Price & Aesthetics.**

Everything is here to ensure that this new furler  
quickly becomes the global sailing market benchmark.

NEW

FURLERS | Page under construction

# 4 PRE-DEFINED VERSIONS... OR A LA CARTE



Options included for each version	Standard	Racing	Classic	Structural
Carbon and Kevlar® continuous line wheel				✓
Anti return drum locking mechanism				✓
K Krok swivel protection				✓
K Krok drum protection				✓
3:1 friction sheave with captive fast pin				
K Snap 2-in-1 snap shackle				
Carbon drum				
Natural wood veneer of the continuous line wheel				
Stainless steel fork				✓
Secured & bolted structural pins				✓

A range of accessories and options to make your furler the lightest, the most compact, the most beautiful, the most innovative, ...

...The choice is yours to make your furler your best team member.

**SCHEDULED LAUNCH: NOVEMBER 2020**



## 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.

BOAT LENGTH	STRUCTURAL	STAYSAIL	CODE 0	GENNAKER	ASY SPINNAKER
< 32'	<b>KFX1/KFX2</b>	<b>KF1 or KFH1 +</b>	<b>KF0.9</b>	<b>KF0.9</b>	<b>KSF1 or KTS1</b>
Max 32'	<b>KFX1/KFX2</b>	<b>KF1 or KFH1 +</b>	<b>KF1</b>	<b>KF1</b>	<b>KSF1 or KTS1</b>
Max 42'	<b>KFX2/KFX5</b>	<b>KF2 or KFH2 +</b>	<b>KF2</b>	<b>KF2</b>	<b>KSF2 or KTS2</b>
Max 52'	<b>KFX5/KFX8</b>	<b>KF5 or KFH5 +</b>	<b>KF5</b>	<b>KF2</b>	<b>KSF5 or KTS5</b>
Max 65'	<b>KFX1/KFX12</b>	<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				

## Online support

Find on our website (Downloads / Library) a list of more than 800 sailboats with our furler recommendations.

WHICH KARVER FURLER FOR WHICH MODEL						
AIDE AU CHOIX EMMAGASINEURS KARVER PAR MODELE						
Recent models :		Staysail	Upwind straight luff sail	Downwind straight luff sail	Spinnaker	1 fits all*
		Trinquette	Code 0	Gennaker	Spinnaker	1 pour toutes*
GS 39	39	KF2/KFH2+	KF2	KF2	KSF5	KSF5
GS 43	43	KF5/KFH5+	KF5	KF2	KSF5	KSF5
GS 47	47	KF5/KFH5+	KF5	KF5	KSF5	KSF5
GS 50	50	KF5/KFH5+	KF5	KF5	KSF5	KSF5
GS 54	54	KF8/KFH8+	KF8	KF5	KSF8	KSF8
GS 58	58	KF8/KFH8+	KF8	KF5	KSF8	KSF8

# KF<sup>0.9</sup>

**THE SMALLEST FURLER EVER DESIGNED BY KARVER**

**Real Size (1:1 scale)!**

**NEW**

MAX WORKING LOAD  
**900kg**

WEIGHT  
**348g!**



MORE TECHNICAL INFORMATION ON PAGES 9 & 14.



# 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	MWL (T)	TACK SWIVEL MWL (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	MWL	TS MWL	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!

### KF

#### +PERFORMANCE

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

#### +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.

#### +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

#### +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.



We provide our furlers for more than 15 years on performance sailing yachts. 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



© Karver system

MODEL	PART NUMBER*	MWL (T)	WEIGHT (Kg)	DRUM DIAMETER (mm)	CUTTING LENGTH (mm)
<b>YACHTS</b>					
<b>NEW</b> <b>KF0.9</b>	PF350000	0.9	0.348	85	106.8
<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

▶ Swivel protection (KF1 to KF5)

▶ Lock and spare lock

▶ User manual

▶ Storage bag

Not in the box : thimble, furling line, anti torsion cable,...and sail!



## 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 integrated tack line swivel makes this furler really compact.

### +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.

MODEL	PART NUMBER*	MWL (T)	TACK SWIVEL MWL (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

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

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



MODEL	PART NUMBER	MWL (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

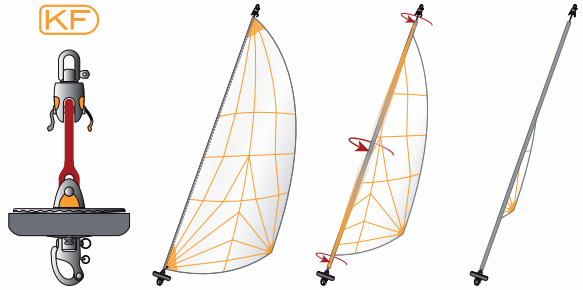
**PACKS SPI:** Ordering one of our pack, you will receive all equipments to furl your spinnaker: a KSF drum with its swivel or a KTS adaptor (if you already own a furler) + a furling line equipped with a block + an anti torsion rope with the clamps to adjust the length.

MODEL	PACK WITH <b>KSF</b> (DRUM + SWIVEL)	PACK WITH <b>KTS</b> (KTS ONLY - NO SWIVEL)	MAX WORKING LOAD (T)	TACK SWIVEL MWL (T)	AT DIAMETER (mm)	AT LENGTH (m)	CLAMPS QTIES	FURLING LINE (m)
<b>PACK SPI1</b>	PF100000 [SPIPAC]	PF100021 [SPIPAC]	1.5	0.5	9	16	2	2 x 8 m
<b>PACK SPI2</b>	PF090000 [SPIPAC]	PF090021 [SPIPAC]	2.5	1.0	13	20	2	2 x 10 m
<b>PACK SPI5</b>	PF080000 [SPIPAC]	PF080021 [SPIPAC]	5	1.5	15	26	2	2 x 13 m

**? HOW DOES IT WORK?**

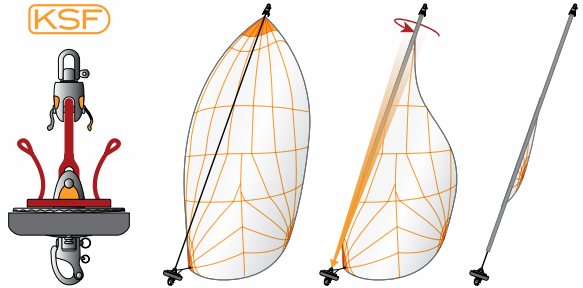
**Free flying sail furler**

- 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.

# KFx

### +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	MWL (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	MWL (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	KF0.9	KF1	KF2	KF5	KF8	KF10	KF12
<b>STANDARD PRODUCT INFORMATION</b>							
Swivel fitting	Lashing eye	Shackle	Shackle	Shackle	Lashing eye	Lashing eye	Lashing eye
Drum fitting	Snap shackle 2:1	Snap shackle	Snap shackle	Snap shackle	Lashing eye	Lashing eye	Lashing eye
Furler drum diameter (mm)	87	110	150	175	210	210	210
Furling line diameter (mm)	6	6	8	10	10	10	10
Drum lock provided (1 + 1 spare)	N/A	PF090050	PF090050	PF080070	PF080070	PF080070	PF080070
Swivel protection	N/A	PL105529	PL095649	PL115874	PL035875	PL035876	PL035876
Storage bag	N/A	PL604047	PL604047	PL604047	PL604131	PL604131	PL604131
Fork pin diameter (mm)	6	8	10	12	14	18	20
Fork pin width (mm)	10,2	11	18	20	24	22	22
<b>COMMON OPTIONS</b>							
Thimble (x 1)	PF355705	PF103776	PF090410	PF080050	PF110050	PF034742 [18]	PF034742
Cableless thimbles (x2)	N/A	PF106460 [T&D]	PF096461 [T&D]	PF086462 [T&D]	PF116463 [T&D]	PF036460 [18T&D]	PF036460 [20T&D]
3:1 friction sheave with captive & fast pin	N/A	PF104699	PF094395	PF084227	PF114226	PF034787	PF034787
2:1 removable block	N/A	PF100030	PF090030	PF080030	PF110030 [ALU]	Custom	Custom
2:1 fixed block	-	-	-	-	PF110030	PF110030	PF030030
Spinnaker top down adaptor KTS	N/A	PF100021	PF090021	PF080021	PF110021	PF030021 [10]	PF030021
Ready to use furling line [Diameter Length]	PF101231 [D6L12]	PF101231 [D6L16]	PF091232 [D8L20]	PF081233 [D10L26]	PF081233 [D10L32]	PF081233 [D10L42]	PF081233 [D10L50]
Custom length furling line	MP101231	MP101231	MP091232	MP081233	MP081233	MP081233	MP081233
Anti torsion line (ready to use at your length)	CABLE [KSF09]	CABLE [KSF1]	CABLE [KSF2]	CABLE [KSF5]	-	-	-
Anti torsion line only	CABLE [M7]	CABLE [M9]	CABLE [M13]	CABLE [M15]	-	-	-
KRE / Clamp KSF	N/A	N/A	PF094806	PF084921	N/A	N/A	N/A

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



▶ THIMBLES & CABLELESS THIMBLES



▶ 3 :1/2:1 FRICTION SHEAVES



**NEW**

▶ SPINNAKER TOP DOWN ADAPTOR



▶ FURLING LINES



▶ ANTI TORSION LINE WITH OR WITHOUT CLAMPS



**NEW**

▶ KARVER CLAMP = 2 IN 1 CLAMP + THIMBLE



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 aluminium)	N/A	PF094140	N/A	N/A	N/A	N/A
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 strapping 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 (forks)	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	PL084329	STD	STD	STD
Fixed Tylaska snap shackle	N/A	N/A	PF080040 [TY]	PF110040 [TY]	-	-
High Load strop	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



▶ STRAPPING 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.

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. Every kilo saved in the rigging can allow the removal of several tens kilos in the bulb.

It would be a mistake to think that these advantages are only for the racing scene. A reduction 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.



**+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 !



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	MWL (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	MWL (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>KHL3</b>	PF485859	3	0.475	173.0	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. 78% of the last Vendee Globe yachts have used this lock!

### 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	MWL (T)	WEIGHT (Kg)	HEIGHT (mm)	MAX SPACE* (mm)	BEST LINE** (mm)
<b>YACHTS</b>						
<b>KFH1</b>	PF550020 [KFH]	1.5	0.167	108	5	5
<b>KFH2</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 instead of the standard swivel.

**KTSH+** = **KFH+** with a KTS.

MODEL	RÉf. KFH+	RÉf. KSFH+	RÉf. KTSH+
<b>KFH1</b>	PF550000	PF550000 [KSF]	PF550000 [KTS]
<b>KFH2</b>	PF480000	PF480000 [KSF]	PF480000 [KTS]
<b>KFH5</b>	PF470000	PF470000 [KSF]	PF470000 [KTS]
<b>KFH8</b>	PF410000	PF410000 [KSF]	PF410000 [KTS]
<b>KFH10</b>	PF400000 [10]	PF400000 [KSF10]	PF400000 [KTS10]
<b>KFH12</b>	PF400000	PF400000 [KSF]	PF400000 [KTS]



\* Maximum available space.

\*\* Best halyard diameter before splicing.

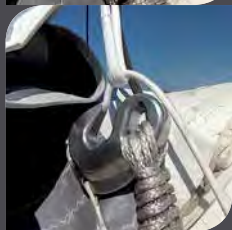
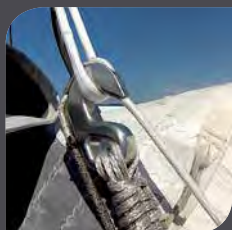


# REEF LOCK

## 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	MWL (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	15	-	-	-	-	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 offshore cruising yachts.

### LOCKING TECNOLOGIES

We supply a headboard car featuring a lock for the whole KMS product line. 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 (P58/64).



▶ One lock inside the track

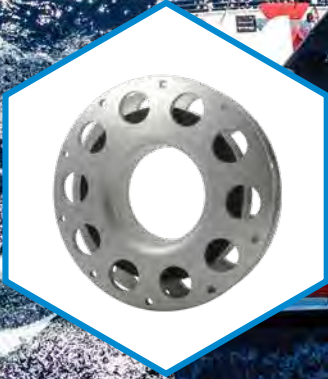
▶ Two locks inside the track

▶ One lock on each side of the track.

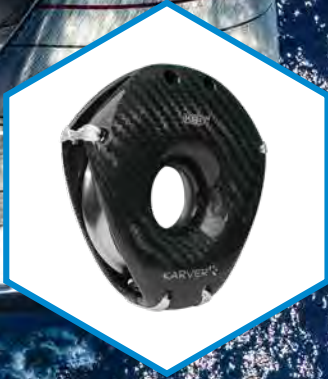
Lashing blocks fast attachment for performance and safety!



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	KB01 to 8: Plastic + fibers KB010 to 50: Aluminium alloy	KB6 and KB8: Plastic +fibers 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 KB030	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 MWL RATIO	**	*	***
COST TO MWL RATIO	**	***	*



## 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.

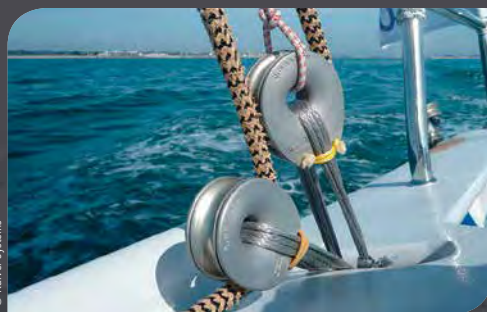
#### +PERFORMANCE

- 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.



► KBO 10 on board.



► KBO10 bearings.



**KB01 to KB08** > Composite plastic sides



MODEL	PART NUMBER	MWL (T)	WEIGHT (kg)	MAX LINE (mm)	BEST LINE (mm)	SHEAVE (mm)	SOFT SHACKLE
<b>KB01 SINGLE</b>	PF830030	0.15	0.010	6	5	22.5	MP551865
<b>KB02 SINGLE</b>	PF790030	0.22	0.026	8	7	32	MP551701
<b>KB04 SINGLE</b>	PF650030	0.40	0.028	8	7	32	MP551701
<b>KB06 SINGLE</b>	PF800030	0.60	0.047	10	9	38	MP551148
<b>KB08 SINGLE</b>	PF890030	0.85	0.080	12	11	47	MP551148
<b>KB01 DOUBLE</b>	PF830030 [D]	0.25	0.018	6	5	22.5	MP553117
<b>KB02 DOUBLE</b>	PF790030 [D]	0.35	0.050	8	7	32	MP553119
<b>KB04 DOUBLE</b>	PF650030 [D]	0.65	0.066	8	7	32	MP553319
<b>KB06 DOUBLE</b>	PF800030 [D]	0.95	0.103	10	9	38	MP553121
<b>KB08 DOUBLE</b>	PF890030 [D]	1.30	0.148	12	11	47	MP553123
<b>KB01 TRIPLE</b>	PF830030 [T]	0.35	0.025	6	5	22.5	MP553118
<b>KB02 TRIPLE</b>	PF790030 [T]	0.45	0.072	8	7	32	MP553120
<b>KB04 TRIPLE</b>	PF650030 [T]	0.90	0.084	8	7	32	MP553120
<b>KB06 TRIPLE</b>	PF800030 [T]	1.30	0.148	10	9	38	MP553122
<b>KB08 TRIPLE</b>	PF890030 [T]	1.80	0.213	12	11	47	MP553124

**KB010 to KB050** > Aluminum sides



<b>KB010</b>	PF660030	1.2	0.083	12	11	52	MP551148
<b>KB015</b>	PF670030	1.8	0.143	14	13	63	MP551149
<b>KB020</b>	PF680030	2.6	0.186	14	13	74	MP551149
<b>KB020 WIDE</b>	PF680030 [L]	2.6	0.244	16	2 x 10	74	MP551150
<b>KB030</b>	PF690030	3.5	0.334	16	15	97	MP551150
<b>KB050</b>	PF810030	5	0.610	18	15	123	X

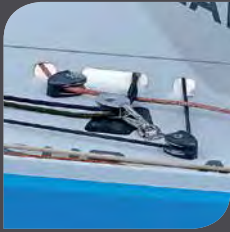
From KB010 to KB050, it's now possible to order them as a snatch block version.

**NEW**

<b>KB010 SNATCH</b>	PF660030 [OP]	1.2	0.083	12	11	52	MP551148
<b>KB015 SNATCH</b>	PF670030 [OP]	1.8	0.143	14	13	63	MP551149
<b>KB020 SNATCH</b>	PF680030 [OP]	2.6	0.186	14	13	74	MP551149
<b>KB030 SNATCH</b>	PF690030 [OP]	3.5	0.334	16	15	97	MP551150
<b>KB050 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	MWL (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!



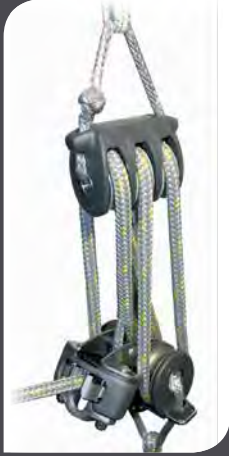
Attached through the centre, the Karver ratchet block is the only block in which the ratchet can work in either direction.

MODEL	PART NUMBER	MWL (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.



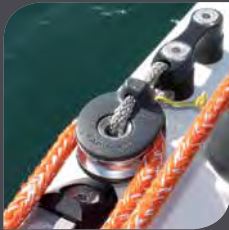
© Karver Systems

Delivered with or without the triple block.

MODEL	PART NUMBER	MWL (T)	WEIGHT (KG)	MAX LINE (mm)	SHEAVE (mm)
<b>KBO6J TRIPLE + CAM CLEAT</b>	PF800030 [TKJ3]	0.8	0.348	10	38
<b>KBO6J + KBO6T</b>	PF800030 [TKJ3T]	0.8	0,496	10	38

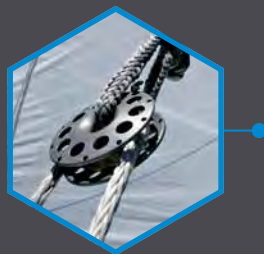


## SOFT SHACKLES MODERN SOLUTION



© Karver Systems

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



## 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	MWL (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>SPECIALS</sup>**

EXTRA LARGE, WOOD, LEATHER



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

ALUMINUM



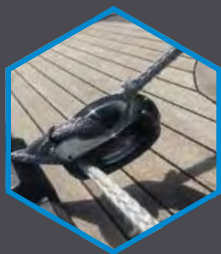
**KBR<sup>OP</sup>**

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	MWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)
<b>YACHTS</b>					
<b>NEW KBRC10</b>	PF330000 [C]	1	0.076	12	45
<b>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

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

## KBRc SPECIALS

### ONE CONCEPT-SEVERAL VARIATIONS

Because our clients always ask for more, here are few variations of our famous KBRC. This should satisfy yachties in the quest of beauty and special solutions.



**NEW**

		<b>KBRc L</b>	<b>KBRc W</b>	<b>KBRc X</b>
MWL (T)	SHEAVE DIAMETER (mm)	LEATHER	WOOD	EXTRA LARGE
<b>YACHTS</b>				
1.5	49	PF330001 [CL]	PF330001 [CW]	NO
3	49	PF330002 [CL]	PF330002 [CW]	PF330002 [CX]
5	64	PF330003 [CL]	PF330003 [CW]	PF330003 [CX]
6.5	75	PF330005 [CL]	PF330005 [CW]	PF330005 [CX]
8	89	PF330007 [CL]	PF330007 [CW]	PF330007 [CX]
<b>SUPER YACHTS</b>				
10.5	102	PF330009 [CL]	PF330009 [CW]	PF330009 [CX]
13	115	PF330012 [CL]	PF330012 [CW]	PF330012 [CX]
16	135	PF330016 [CL]	PF330016 [CW]	PF330016 [CX]
18	147	PF330018 [CL]	PF330018 [CW]	PF330018 [CX]
25	160	PF330025 [CL]	PF330025 [CW]	PF330025 [CX]
30	180	PF330030 [CL]	PF330030 [CW]	PF330030 [CX]
40	206	PF330040 [CL]	PF330040 [CW]	PF330040 [CX]



## 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	MWL (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

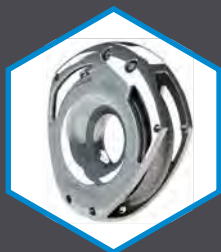


## HIGH LOAD ALUMINUM SNATCH BLOCKS

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	MWL (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 wearing and maintenance.
- Compact & light.
- Long life bearing.

**NEW**



MODEL	PART NUMBER	MWL (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

\*Available in 2019.



## 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	PART NUMBER	MWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)	PIN (mm)
<b>KDS25</b>	☐ PF980025 [FP]	○ PF980025	2.5	0.098	12	65	12
<b>KDS40</b>	☐ PF980040 [FP]	○ PF980040	4	0.266	18	80	16
<b>KDS60</b>	☐ PF980060 [FP]	○ PF980060	6	0.419	24	100	26
<b>KDS100</b>	☐ PF980100 [FP]	○ PF980100	10	0.703	26	113	32
<b>KDS150</b>	☐ PF980150 [FP]	○ 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	PART NUMBER	MWL (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)	PIN (mm)
<b>KDSTi15</b>	☐ PF985253 [FP]	○ PF985253	1.5	105	12	50	12
<b>KDSTi30</b>	☐ PF985254 [FP]	○ PF985254	3	120	12	50	12
<b>KDSTi50</b>	☐ PF985255 [FP]	○ PF985255	5	261	14	64	16
<b>KDSTi65</b>	☐ PF985256 [FP]	○ PF985256	6.5	388	16	75	20
<b>KDSTi80</b>	☐ PF985257 [FP]	○ PF985257	8	536	18	89	26
<b>KDSTi105</b>	☐ PF985258 [FP]	○ PF985258	10.5	858	18	102	30
<b>KDSTi130</b>	☐ PF985259 [FP]	○ PF985259	13	1130	20	112	34
<b>KDSTi160</b>	☐ PF985260 [FP]	○ PF985260	16	1646	20	130	38
<b>KDSTi180</b>	☐ PF985261 [FP]	○ PF985261	18	2496	22	145	40
<b>KDSTi250</b>	☐ PF985262 [FP]	○ PF985262	25	3672	30	160	46



## 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	MWL (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

Contact us for custom sheaves or sheave boxes.



## TITANIUM RINGS

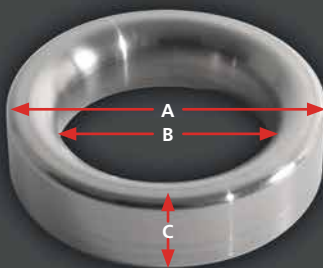
# STRENGTH AND LIGHT WEIGHT

**+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	MWL (T)	WEIGHT (Kg)	OUTTER DIAM (A mm)	INNER DIAM. (B mm)	WIDTH (C 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



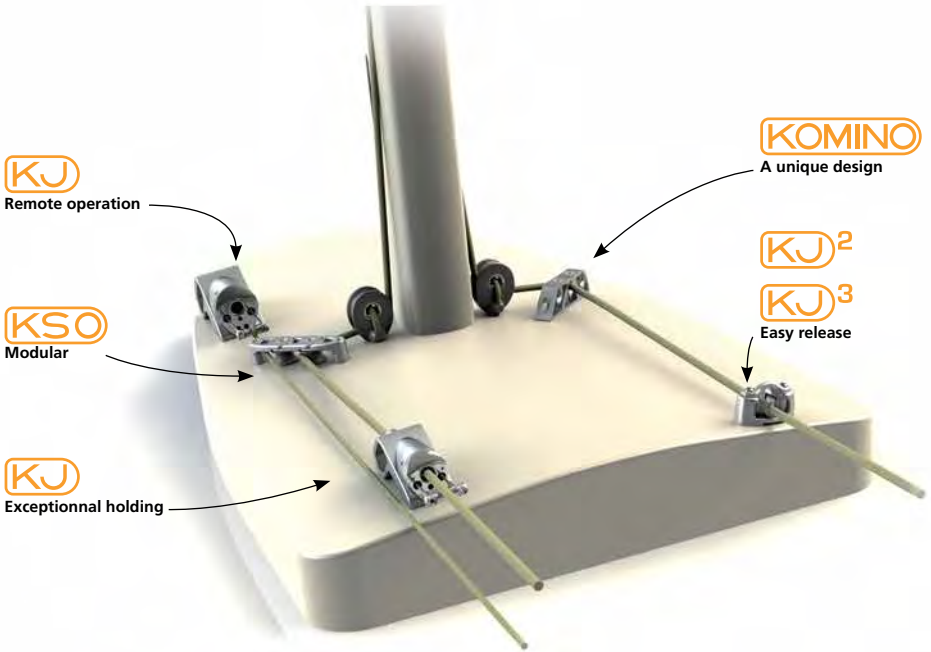
**KJH**

JAWS HANDLE

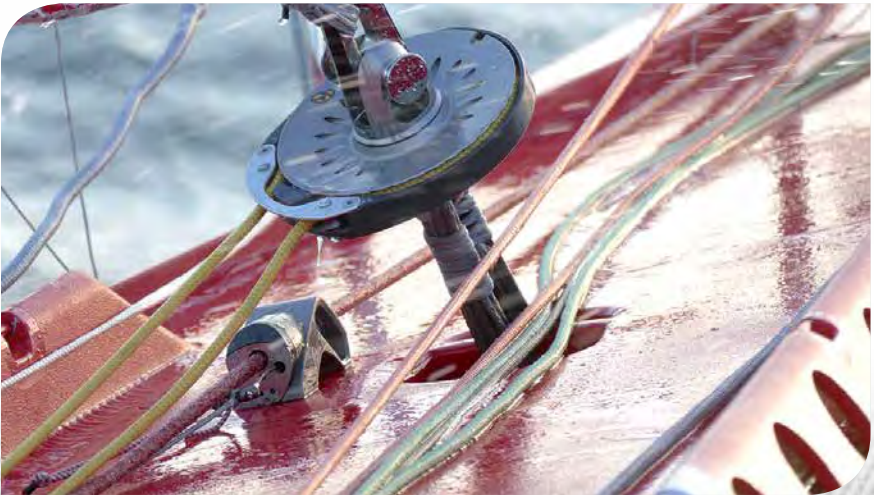


## KARVER: THE ROPE HOLDING SPECIALIST

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

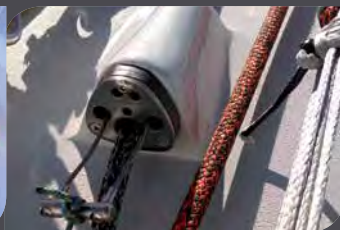
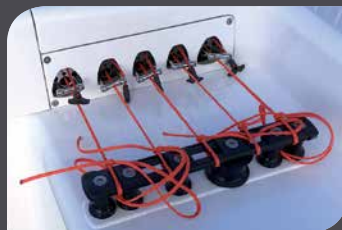
- Up to 50% lighter than the competition.
- Up to 3 different rope diameters can be used on the same jammer

### +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	MWL (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]	N/A	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) allows the jammer to open after to have released the tension of the rope with your 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	MWL (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>KMS40 Adaptor</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	MWL (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>KJ3 CAM CLEAT</b>	<b>PF840010 [INOX]</b>	<b>Stainless</b>	<b>0.310</b>	<b>0.107</b>	<b>10</b>	<b>38</b>
<b>FAIRLEAD</b>	<b>SF842531</b>	<b>-</b>	<b>-</b>	<b>0.009</b>	<b>10</b>	<b>38</b>
<b>FAIRLEAD</b>	<b>SF842531 [INOX]</b>	<b>-</b>	<b>-</b>	<b>0.015</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	MWL (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!

**3 TIMES  
MORE POWER**



### 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	MWL (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	MWL 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	-

Please contact us for custom organizers.



# KOMINO

## ORGANIZERS WELL DESIGNED AND LIGHT!

The Komino fairleads simply assemble together.

© Karver Systems



Low friction deck organizer for low angles.

MODEL	PART NUMBER	MWL 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**

© Karver Systems



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. Shipyards will appreciate to be able to realize any configuration with only 3 references.

MODEL	PART NUMBER	MWL 60° (T)	WEIGHT (Kg)	MAX LINE (mm)	SHEAVE (mm)	SHEAVE
<b>KS08 - FIRST (INCLUDE 1 SHEAVE)</b>	PF784531	0.85	0.045	14	30	1
<b>KS08 - ADDITIONAL SHEAVE</b>	PF784533	0.85	0.036	14	30	1
<b>KS08 - LAST (NO SHEAVE)</b>	PF784532	0.85	0.031	14	-	0

To order a complete KSO: PF784533 [3] for a KS08 3 sheaves.

Forget the others and switch to Karver winches!

**NEW**



**KSW**

SPEED RANGE



**KPW**

POWER RANGE



**KCW**

COMPACT RANGE

## THE GREATEST WINCH INNOVATION IN OVER 40 YEARS!

Karver winches are equipped with a double gear mechanism, a classic first stage identical to current winch design and a second consisting of an epicyclic gear. This patented technology is used for the first time on a winch and has the effect of multiplying efforts. Thus and according to its original set up, our winches are either 6 times faster than any other winch on the market (Speed Range), or 3 times more powerful (Power Range).



Planetary or Epicyclic gear



The Pontos company was the originator of this major innovation in sheet winches. It sought a way to drastically reduce the physical effort to operate on a sailboat and make the practice of sailing accessible to the greatest number of people. Bought by Karver in 2018 and taking advantage of their 15 years of boating experience, these winches have evolved into even more performance and reliability.

Apart from the Compact (2 speeds), all winches are equipped with 4 automatic speeds. As soon as the efforts are too much, simply operate the handle in the opposite direction. Speeds pass instinctively from one to the other without activating any extra mechanism. Once the tension on the rope is released, the winch will return to the initial speed. It's very fast and efficient.

Designed to last: Aluminum hard anodized drum, 17-4PH stainless steel gearboxes and clutch, triple polyoxymethylene needle bearing cage, plus full 5 year warranty.

Karver winches have been tested successfully in extreme conditions and proven their efficiency in the toughest races like the Route du Rhum, 20% of Class 40 have already adopted it.

Make your own opinion and contact your nearest dealer to find out where to try it.



© Vincent Riou on PRB, credit Benoît Stichelbaut



# WINCH-RANGE SPEED 6 TIMES FASTER THAN A TRADITIONAL WINCH

“Be careful, it’s going to be fast! Very very very fast!”

## +PERFORMANCE

- 6 times faster: Trim in faster. Trim for extraspeed and acceleration out of the tack.
- 4 automatic speeds: 2 standard speeds + 2 extra fast speeds .
- The sails are not blowing free longer in the tack and end up less damaged.

## +SECURITY

- No need to take the slack by hand. Use the handle from A to Z.

## +SIMPLE

- Instinctive shift in gears. No mechanism to operate.
- Dimensioned to replace most standard winches.



© Loick Peyron on Happy, credit Jean-Marie Liot

The extra speeds of the KSW provide the ability to trim much faster than standard winches. In first gear, a single handle turn embeds 6 times the length of rope of a two-speed winch. The gear change is simple. When the load on the handle becomes too much, simply reverse the direction to change gears automatically.

The simplicity and speed of the maneuvers will certainly make you save accurate seconds for the overall leader board.

To hoist a main sail with a 20m halyard requires 142 turns of crank with a traditional winch against 29 turns with a Speed Karver!

**4 SPEEDS 4 FIRST PLACES - THE WINCH THAT WINS!**

MODEL	KSW 40				KSW 46				KSW 52			
PART NUMBER	PF1205830				PF1205831				PF1205832			
BASE	171 mm				206 mm				220 mm			
ROPE DIAMETER	8-12 mm				8-14 mm				8-14 mm			
WEIGHT	5,3 Kg				7,6 Kg				8,6 Kg			
MAX LOAD	850 Kg				1 300 Kg				1 500 Kg			
SPEED	1	2	3	4	1	2	3	4	1	2	3	4
POWER RATIO	2,3	8	11,6	40	2,3	9,3	11,7	46,6	2,3	10,6	11,6	52,8
TAILING LENGTH	70 cm	20 cm	14 cm	4 cm	68 cm	17 cm	14 cm	3,5 cm	69 cm	15 cm	14 cm	3 cm





## WINCH-RANGE POWER

# 3 TIMES MORE POWERFUL = 3 TIMES LESS EFFORT

Re-discover the pleasure of setting a sail without effort!

IP53

## KPW

### +PERFORMANCE

- 3 times more powerful: Trim at your fingertips and save your strength..
- 4 automatic speeds: 2 standard speeds + 2 extra ultra-powerful speeds.
- Our superior working load capacity makes it possible to use a smaller size.

### +COST EFFECTIVE

- A real alternative to electric winches.

### +CONVENIENT

- KWPs are so powerful that you can use a shorter handle, useful for winches under roof cover.



© Gustus 1<sup>er</sup> on Maeva

What delights KPW users is the multiplication ratio that converts minimal effort on the handle into maximum effort on the line. The maneuvers become accessible to the whole family.

This winch is really dedicated to cruisers but racers will also have noted that at similar sizes our winches are 20% stronger than the others. This allows you to come down in winch size if needed.

On a 38-foot, with a 40 m<sup>2</sup> genoa, in 25 knots of wind, a standard winch will require 13 kg to tuck the sail. The effort required with a KARVER Power will be only 4.7 Kg!

MAKE SAILING EASY - THE END OF HUGE EFFORT

MODEL	KPW 110				KPW 130				KPW 150			
PART NUMBER	PF1205833				PF1205834				PF1205835			
BASE	171 mm				206 mm				220 mm			
ROPE DIAMETER	8-12 mm				8-14 mm				8-14 mm			
WEIGHT	5,2 Kg				7,4 Kg				8,6 Kg			
MAX LOAD	1 000 Kg				1 500 Kg				1 800 Kg			
SPEED	1	2	3	4	1	2	3	4	1	2	3	4
POWER RATIO	11,6	40	112,9	32,7	11,7	46,6	131,3	33	11,6	52,8	148,7	32,7
TAILING LENGTH	14 cm	4 cm	1,4 cm	5 cm	14 cm	3,5 cm	1,2 cm	5 cm	14 cm	3 cm	1,1 cm	5 cm





**+PERFORMANCE**

- Ultra Compact (size of a Winch 20).
- 2 times faster (24 cm per handle round).
- Unbeatable weight / power ratio and dimensions / power ratio.



© Claude to the maneuvers

# WINCH COMPACT

## THE BEST OF KARVER TECHNOLOGY

Two speeds: The first ultra fast and the second ultra powerful!



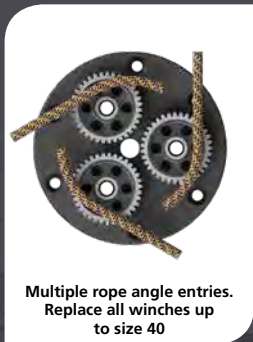
Size with equivalent power.

Total concentrated innovation in a two-speed self-tailing winch. By transposing the technology of its 4-speed winches, Karver invented the most powerful small winch.

The winch Compact has the size of a winch 20 but the power of a winch 45. In first gear, you enjoy a tailing speed twice the speed of a conventional winch, and in second gear, you benefit from the power of a winch 45.

The unique combination of a small size and a workload of 850 Kg makes the Compact an extremely versatile winch.

The Compact winch can replace any winch up to and including size 40 and accepts 8 to 11 mm ropes, providing increased comfort and improved performance.



Multiple rope angle entries. Replace all winches up to size 40

PART NUMBER	PF1205836	
BASE	130 mm	
HEIGHT	142 mm	
ROPE ENTRY HEIGHT	58 mm	
ROPE DIAMETER	8-11 mm	
WEIGHT	2,9 Kg	
MAX LOAD	850 Kg	
SPEED	1	2
POWER RATIO	6,05 Kg	45 Kg
TAILING LENGTH	26,4 cm	3,5 cm



## CARBON WINCH HANDLES

### PERFORMANCE AND DESIGN

The winch handle is an iconic tool for all sailors. This is why it feels natural to propose a KARVER one reflecting our own ADN: Performance - Innovation - Design.



#### +BENEFITS

- Body structure: 100% Carbon: Lighter, stiffer.
- Double stainless steel low friction ball bearings. Extended life.
- User friendly locking system, left and right hand users.
- Customized Design and cover finish.



MODEL	PART NUMBER	LENGHT	POMMEL	WEIGHT (g)
<b>KWH20</b>	PF1206312	199 mm/8'	NO	415
<b>KWH20G</b>	PF1206313	199 mm/8'	YES	486
<b>KWH25</b>	PF1206310	254 mm/10'	NO	456
<b>KWH25G</b>	PF1206311	254 mm/10'	YES	528



Our winch get dressed! It is now possible to get your winch coated with carbon finish or carbon and wood veneer, for modern classic version.



#### ► CUSTOMIZED VERSION

Available in wood veneer finish with the name of your boat or its owner.



**NEW**

A winch choice is more complex than it seems. In order to make it as simple as possible, we have produced a dedicated report in our KARVERPEDIA, available on our website [www.karver-systems.com](http://www.karver-systems.com)



**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	11.4	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	25	30	25	50	50
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 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

▶ Standard track

LONG DESIGN



▶ Batten cars



▶ Intermediate car



▶ Tack/reef car lighten

COMPACT DESIGN



▶ Battcar with fuse (P. 50)



▶ Reinforced battcar without fuse



▶ Intermediate car



▶ Tack/reef car

▶ Track joiner

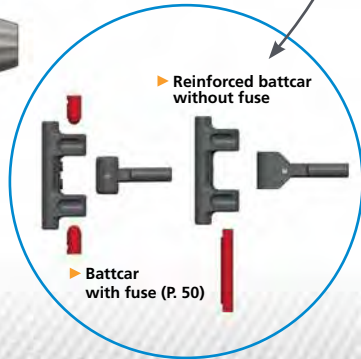


▶ Batten receptacle (P. 51)



**NEW**

▶ Custom track reinforced + alighten zones



▶ Reinforced battcar without fuse

▶ Battcar with fuse (P. 50)

▶ Car charger



▶ 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	MWL (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



**DAME**  
NOMINATED  
2017

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>	PF1405533	1	3	140	0.284
<b>KMS60 / 5T</b>	PF1605442	1	5	200	0.589
<b>KMS60 / 8T</b>	PF1605431	2	8	350	2.400
<b>KMS80 / 7T</b>	PF1805431	1	7	200	1.100
<b>KMS80 / 12 T</b>	PF1804657	2	12	350	2.400
<b>KMS100</b>	PF1004957	2	20	400	3.100

CHARACTERISTICS	<b>KMS40</b>	<b>KMS60</b>	<b>KMS80</b>	<b>KMS100</b>
Flipper x 1	PF1405511	PF1804655		PF1005515
Exit box with cam cleat for flipper command	PF1405512	PF1804554		PF1005516
Position sensor display	PF1405513	PF1804793		PF1005517
Installation tool for flipper and sensor	PF1405514	PF1604760	PF1804760	PF1005518



## 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>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	0.150	300
<b>HEADBOARD CARS</b>				
A HEADBOARD CAR LASHING	-	PF1043734	0.073	81
B LOCKING HEADBOARD CAR	-	PF1045087	0.120	86
HEADBOARD CAR GAFF LOCK	-	PF1044813 [CHRT]	0.860	88
<b>BATTEN CARS</b>				
C BATTCAR M10	STD	PF1043362	0.043	40
<b>TACK / REEF CARS</b>				
D TACK / INTERMEDIATE CAR	STD	PF1043735	0.023	40
<b>INTERMEDIATE CARS</b>				
D 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) 3M	STD	PF1402711 [M5]	0.304 g/m	3000
	21MM STANDARD TRACK (M6 / 30 mm) 3M	STD	PF1402711	0.290 g/m	3000
	REINFORCED TRACK (M5CSH / 30 mm) 3M	-	PF1404875	0.295 g/m	3000
	LOCKING AREA	-	PF1403564	0.136	510
<b>HEADBOARD CARS</b>					
A	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>					
B	BATTCAR REINFORCED M10 WITHOUT FUSE	STD	PF1402710 [R]	0.230	70
C	BATTCAR M10 WITH FUSE	-	PF1402710	0.149	70
	BATTCAR M10 WITH FAST FUSE	-	PF1403020	0.155	70
<b>TACK / REEF CARS</b>					
D	TACK / REEF CAR	STD	PF1403031	0.250	70
<b>INTERMEDIATE CARS</b>					
E	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
	GAFF LOCK ONLY	-	PF1404581	0.473	127
	HL STROPE FOR GAFF LOCK	STD	MP1404478	0.400	80

- > 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 / 5T	-	PF1603545	0.480 g/m	600
CUSTOM KMS60 TRACK	-	PF1602744 [CUST]	-	-
<b>HEADBOARD CARS</b>				
STANDARD HEADBOARD CAR	STD	PF1604050	0.496	200
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
<b>A</b> BATTCAR REINFORCED L110 M14	-	PF1602778	0.423	110
<b>BATTCARS</b>				
<b>B</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
<b>A</b> BATTCAR REINFORCED L110 M14		PF1602778	0.423	110

MODEL	STD	PART NUMBER	WEIGHT (Kg)	HEIGHT (mm)
<b>BALL BEARING BATT CARS</b>				
BALL BEARING SQUARE TOP BATT CAR L113 M14 FAST PIN		PF1603507	0.410	113
BALL BEARING BATT CAR L93 M14 + FAST FUZE		PF1602939 [90]	0.390	93
BALL BEARING BATT CAR L113 M14 + FAST FUZE		PF1602939	0.557	116
BALL BEARING BATT CAR REINFORCED L93 M14		PF1604890 [90]	0.405	93
BALL BEARING BATT CAR REINFORCED L113 M14		PF1604890	0.560	113
<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	PF1603525	0.018	50
REINFORCED INSERT	-	PF1603528	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 30x20 M14 (PA6)	-	PF1612891	0.180	-
BATTEN RECEPTACLE 39x20 M14 (ALU) - LONG	-	PF1682883	0.465	-
BATTEN RECEPTACLE D22 M14 (ALU)	-	PF1613288	0.418	-
BATTEN RECEPTACLE D22 M14 (PA6)	-	PF1612890	0.206	-
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> ROCKET BATTEN RECEPTACLE			See page 51	

- > 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.



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
LOCKING AREA (DOUBLE) IN THE TRACK	-	PF1804548	1.22	800
LOCK TRIGGER BOX (INTERNAL REMOTE CONTROL - AUTOLOCK)	-	PF1804655	0.148	66
CUSTOM KMS80 TRACK	-	PF1804542 [CUST]	x	x
<b>HEADBOARD CARS</b>				
A HEADBOARD CAR STANDARD	STD	PF1804690	2.2	280
HEADBOARD CAR 2:1 LASHING	STD	PF1805263	1.578	280
HEADBOARD CAR AUTOLOCK / 12T	-	PF1804657	2.6	400
HEADBOARD CAR + GAFF LOCK	-	PF1804749 [CHRT]	2.1	300
HEADBOARD CAR CUSTOM	-	PF1804692	x	x
<b>SQUARE TOP BATTEN CARS</b>				
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>				
C 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>				
HEADBOARD CAR (BALL BEARING)	-	PF1804690 [BB]	2.050	382
SQUARE TOP BATTEN CAR (BALL BEARING)	-	PF1804898 [BBM16]	1.100	172
BATTEN CAR 142MM (BALL BEARING)	-	PF1804896 [BBM16]	0.870	142
BATTEN CAR 172 (BALL BEARING)	-	PF1805614 [BBM16]	0.950	172
TACK / REEF CAR (BALL BEARING)	-	PF1804686 [BB]	0.810	172
INTERMEDIATE CAR (BALL BEARING)	-	PF1804688 [BB]	0.510	102
<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 100MM	STD	PL1805477	0.06	100
EXIT FLIPPER LINE	-	PF1804554	0.150	66
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 20x30 M16 (ALU)	-	PF1612889 [M16]	0.690	120
BATTEN RECEPTACLES 26x39 M16 (ALU)	-	PF1812883 [M16]	0.735	120
<b>NEW</b> ROCKET BATTEN RECEPTACLE			See page 51	

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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 AUTOLOCK	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> ROCKET BATTEN RECEPTACLE	See page 51		

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



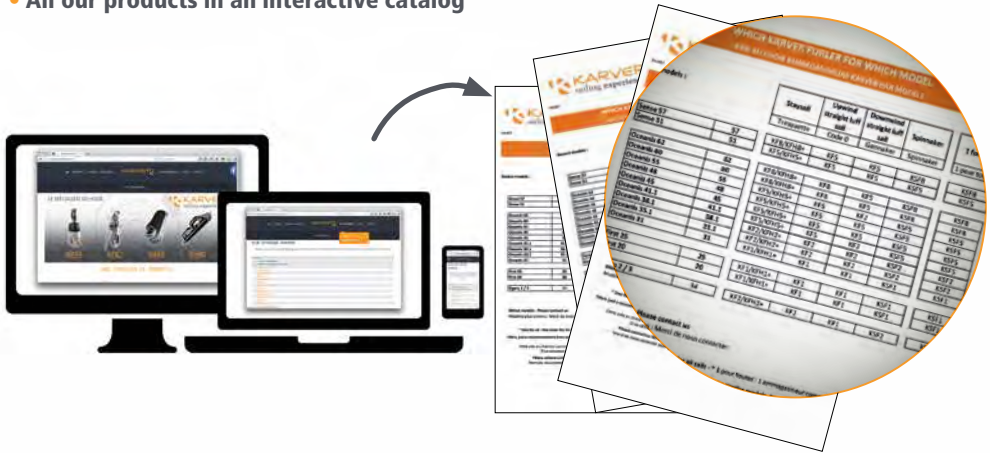
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## Contact us

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

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

Christophe QUESNEL / Cédric RAFIN - **International sales**

Alois Kerduel - **Sales manager France**

Mélanie BOURDON - **Sales coordinator France**

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