Wichard®

SINCE 1919

2024 VERSION

wichard.com

CONCEPTION FRANÇAISE
FABRICATION FRANÇAISE

100 YEARS OF SAFETY
SINCE 1919

NEWS

ProLine and ProLine'R safety tethers :
New ranges
New design
See page 52

Folding pad eyes
EN 795 certified
Anchor devices - Fall protection
See page 13

Friction ring FRX40
New model
Working load: 8000 Kg
See page 35

Snap shackle with fairlead feature
Flying sail furler terminal
See page 18

Wichard, your partner for big and small adventures!

Summary

It all started in 1919 - or maybe a bit earlier!

Before becoming a foundry and taking on the name Wichard, the historic factory was initially called the Croix de Fer (or Iron Cross) factory and was actually a paper mill.

The mill owed its name to a forged Iron Cross that was known as 'the paper mill's cross'.

In 1887, the owner at the time sold his establishment to Messrs Bizet and Pradel, who converted it into a cutlery factory.

In 1919, Antoine Bizet formed a partnership with a certain Henri Wichard, setting up a company that would "specialise in the production of everything for the cutlery industry and locksmithing using processes such as cutting and stamping".

The latter, a blacksmith by trade from a long line of master smiths from eastern France, added his expertise.

Henri Wichard & Co was born.

Up until the end of the Second World War, Wichard forged knife tangs and blades, scissors and components used in the hunting rifles produced by the St Etienne arms factory.

1887

1887: The Croix de Fer paper mill becomes a cutlery factory owned by Bizet and Pradel.

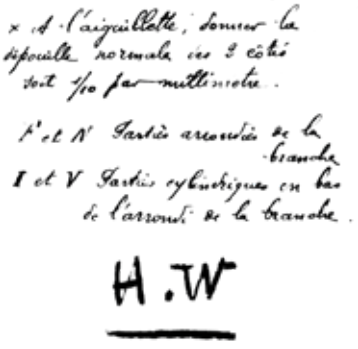
1887 V 1919

The factory is converted and expanded, including the installation of blade sharpeners, polishers and handle makers.

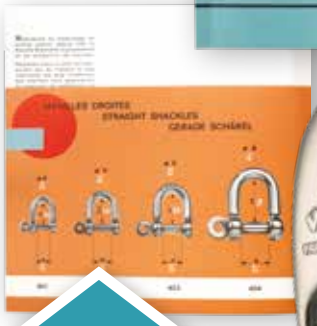
1919

Antoine Bizet forms a partnership with Henri Wichard - The company Henri Wichard & Co is founded at the Croix de Fer factory

1920 V 1970



1st catalogue for marine hardware - development of the 2480 snap hook



Range of shackles - developed alongside Bernard Moitessier

1970

1970

2nd production site
An automatic forging line is put in place.
Development of deck fitting products and the titanium forge (medical)

Products: Snap hooks

1980

1984

1984: Nouvel Economiste - Europe 1: Award for design:

Quick release snap shackle

1988

Folding pad eyes

Development of international network

Products: One hand sail snaps, eye bolts, saddles, lifeline hooks, folding pad eyes

1990

Wichard blocks are added to the catalogue

The American subsidiary is created: Wichard inc

Takeover of Maillard (plastic injection), who would produce Wichard blocks

Products: turnbuckles, U-bolts, watertight U-bolts, double folding pad eyes, Wichard blocks, safety tethers

1995

1998

Double safety snap hooks given 1st prize at the Dame Award- Safety tethers

2000

Wichard is taken over by a group of private shareholders -

The Australian subsidiary Wichard Pacific is founded,

takeover of Forginox, a cutlery factory in Thiers.

All activity is brought together at one single site within an industrial estate. The introduction of a high-speed machining platform for the development of production machinery, the deployment of a new forging press, the installation of a 5-axe machining centre

Products: trigger snap shackles, roller blocks, boom brake, jacklines

2010

Products : Proline safety tethers Offshore and Aquaterra knife ranges, maintenance products

2013

Proline: new range of safety tethers

2015

Offshore & Aquaterra knife ranges

2019

Wichard celebrated its 100th anniversary

100 YEARS OF SAFETY SINCE 1919

The forge - our trade yesterday, our trade tomorrow

Produced in France since 1919, the trade of the blacksmith has undergone significant changes, but it remains a trade for men and enthusiasts. At Wichard, we manage the entire process, from the production of equipment and stamping right through to packaging. Our expertise is passed on throughout the company and we are proud to have kept all of our manufacturing in France.

Why choose a Wichard forged product?

- Proven corrosion resistance
- Enhanced mechanical and fatigue resistance
- High quality manufacturing
- Reliability guaranteed

Our manufacturing process: -always manual, always meticulous

There are a significant number of steps involved in the development of each forged Wichard product. For our iconic 2480 snap hook, for example, 21 steps are involved, with the majority of these carried out by a Wichard employee.

The main production steps for forged products are as follows:

Expertise handed down from generation to generation and innovative development.

Although our expertise has been handed down from one generation to the next, we design and manufacture all of our new products in an innovative and contemporary way.

Our design department innovates by using modern methods for development and prototyping.

At the same time, we work to ensure both our expertise and our production methods evolve in order to keep pace with developments in the yachting market.

Wichard quality is what matters most

Our shared goal is to offer our clients products that provide the very best when it comes to safety and quality. In order to ensure this, we deploy a quality control procedure for each batch of manufactured components:

Test/traction bench for mechanical resistance

Dimensional checks

Drop tests for our safety tethers

GROUPE Wichard since 1919

During the 2000s, following a decision taken by upper management and private shareholders, Wichard became a group incorporating a number of different trades, with more than 550 employees in France in 2024. Through these various acquisitions, the Wichard Group is aiming to become a major player in yachting, particularly through the group's subsidiaries in the USA and in Australia.

2002 – Acquisition of Profurl, a manufacturer of sail furling systems

2003 – Acquisition of Simond (Chamonix): manufacturer of mountaineering equipment

2013 – Acquisition of Facnor (sail furling systems), Sparcraft (masts, rigging), Sparcraft Rigging (rigging)

2018 – Acquisition of Lorima (carbon masts) and Peguet

2022 – Acquisition of Courant (ropes and PPE)

2023 – Acquisition of Ronstan (marine hardware)

Our brands

Wichard marine · RONSTAN — Marine hardware

SPARCRAFT Performance Engineering · Lorima — Mast and rigging

ProFurl · facnor FURLING SYSTEMS — Furling systems

Wichard industrie · PEGUET peguet.fr · Courant VERTICAL LIVING · Maillard — Quick links, plastic injection, ropes, PPE

Protecting the environment

ECO FRIENDLY

At Wichard, we don't simply pay lip service to environmental protection. When manufacturing our knives, we do everything practical to contribute to Protecting nature on a daily basis:

Respect all applicable environmental requirements

Take active measures to prevent pollution.

Design products that preserve environment and are recyclable

Reducing the manufacturing of sub-standard items, especially waste.

- Producing no more than is required.
- Minimize the environmental impact of its sites by:
- limiting the consumption of raw materials and energy;
- using clean manufacturing processes;
- avoiding the discharge of any material that may pollute the soil, air or waterways

and treating its waste effectively.

- Involve its partners and collaborators in its improvement process.

Stainless steel products

Wichard offers a complete range of stainless steel products including:

— Babystay adjusters, backstay adjusters.
— Wire accessories: lifeline hooks.
— Fastenings: folding pad eyes, watertight U-bolts.
— Eye straps, eye nuts and eye bolts.
— Snap hooks and swivels.
— Shackles.

Babystay adjusters

For fitting a jib, setting up a genoa or a solent jib... Both for safety and performance reasons, fitting a removable inner forestay is strongly recommended when there is a roller furling system. Wichard offers a whole range of babystay adjusters.
The table below will allow you to determine the best suitable product for your boat.

+ BENEFITS

- Large range of babystay adjusters
- Available with wheel, handle or ratchet
- Ergonomic and comfortable to use
- Easy to install and dismantle
- Forged body and snap hook
- Resistant to high loads
- Perfect for setting a flying sail (solent jib or storm jib)
- Optimizes yacht performance
- Long travel model available

N°	Part #	Length pin to pin closed /open mm	Toggle length x width mm	Ø pin mm	Handling Kg	W.L. Kg	B.L. Kg	Ø stud mm	For wire Ø mm	Weight Kg
WITH WHEEL (DELIVERED WITH SHACKLE PART # 1206)										
1	5546	250 / 310	15 x 20	12	1200	2800	5300	12	5/6/7	1.090
WITH HANDLE										
2	5554	310 / 450	10 x 10	8	800	960	2400	8	4/5	0.802
3	5556	450 / 510	15 x 20	12	1200	2800	5100	12	5/6/7	1.268
4	5566	370 / 540	15 x 20	12	1200	2800	5000	12	5/6/7	1.390
WITH RATCHET										
5	5585	360 / 520	17 x 22	12	2500	3200	6000	14	7/8/9	1.848
	5587	360 / 520	17 x 22	14	2500	3200	6700	14	7/8/9	1.856
	5588	415 / 615	18 x 25	16	2500	3200	9000	16	9/10	2.862

1

2

3

4

5

SELECTION CHART OF BABYSTAY ADJUSTERS PER SIZE OF BOAT

Length in m		6 to 7.60	7.60 to 9.00	9.00 to 10.00	10.00 to 10.70	10.70 to 11.15	11.50 to 12.00	12.00 to 13.60	13.60 to 14.50
Length in ft		20 to 25	25 to 30	30 to 33	33 to 35	35 to 38	38 to 40	40 to 45	45 to 48
Head stay	Removable stay								
5 mm	4 mm	5554	5554						
6 mm	5 mm	5554	5546/5556 5566	5546/5556 5566					
7 mm	6 mm	5546/5556	5556/5566	5556/5566	5566				
8 mm	7 mm	5546/5556	5566/5587 5585	5587/5585	5587/5585	5587/5585	5587/5585	5587/5585	5587/5585
9 mm	8 mm		5587/5585	5587/5585	5587/5585	5587/5585	5587/5585	5587/5585	5587/5585
10 mm	9 mm		5587/5585	5587/5585	5587/5585	5587/5585	5587/5588	5588	5588
12 mm	10 mm			5588	5588	5588	5588	5588	5588

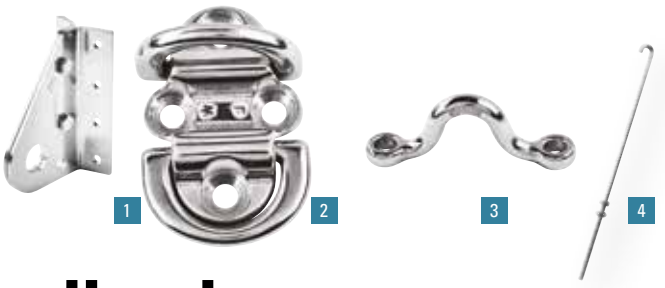
These indications are not contractual, as each boat is different, we recommend checking with a professional.

WL: working load - BL: breaking load

Accessories for babystay attachment

N°	Part #	Description	Weight kg
1	9150	Babystay tang , to be fitted to the mast	0.306
2	6564	Double folding pad eye dia 6 (see page 13)	0.126
	6565	Double folding pad eye dia 8 (see page 13)	0.252
	6566	Double folding pad eye dia 10 (see page 13)	0.494
3	9204	Eye strap, used as a backing plate for double pad eye part #6564 & 6565 (see page 13)	0.038
	9205	Eye strap, used as a backing plate for double pad eye part #6566 (see page 13)	0.075
4	6435	Threaded eye hook for tensioning. Breaking load 1000 kg (small yachts). Length: 450 mm - M10	0.254

Wichard offers a comprehensive range of fixing points for babystay attachment. Double pad eye allows a single attachment point for both the babystay pelican adjuster and the jib tack point, fits all sizes of adjusters.



Backstay adjusters

N°	Part #	Length pin to pin Closed/open mm	Toggle length x width mm	Ø pin mm	Handling mm	W.L. Kg	B.L. Kg	Ø Stud mm	For wire Ø mm	Weight Kg
WITH WHEEL										
5	5526	350 / 520	15 x 20	12	1200	2800	5300	12	5/6/7	1.128
WITH HANDLE										
6	5536	350 / 520	15 x 20	12	1200	2800	5300	12	5/6/7	1.306
WITH RATCHET										
7	5565	440 / 660	17 x 22	12	2500	3200	5000	14	7/8/9	2.052
	5567	440 / 660	17 x 22	14	2500	4400	6700	14	7/8/9	2.088
	5568	505 / 755	18 x 25	16	2500	5600	9000	16	9/10	3.264

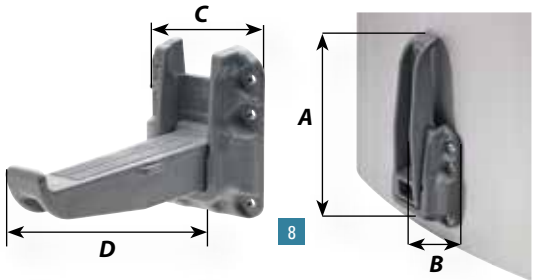
+ BENEFITS

- Available with wheel, handle or ratchet
- Ergonomic and comfortable to use
- Optimizes rigging performance
- Compact size
- Forged body
- Resistant to high loads

Foldable mast step

+ BENEFITS

- Quick and easy to install without need to modify the base
- Locks in place for maximum security
- The notched surface and end piece ensure a strong, stable support for your feet and reduce risk of slipping
- UV resistant, corrosion-free
- Lightweight: extra weight in the upper sections.
- SWL: 140 Kg
- Colour: grey



N°	Part #	A mm	B mm	C mm	D mm	Weight Kg
FOLDABLE MAST STEP						
8	5100	173	36	70	154	0,190

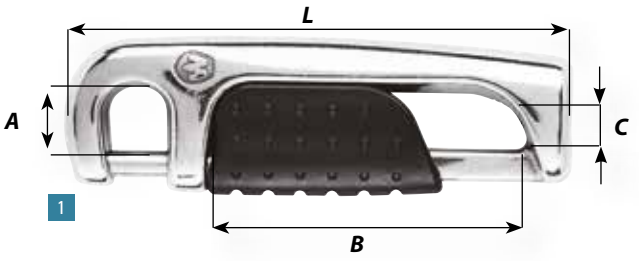
Sail chafe protector

SAIL CHAFE PROTECTOR		
9	4107	This two part ring which is suitable for clipping on to 6 to 10 mm diameter wires, protects sails and facilitates manoeuvring whilst minimising snagging risks; Overall diameter 70 mm

WL: working load - BL: breaking load

Lifeline hooks

Automatic locking



N°	Part #	Length mm (L)	A mm	B mm	C mm	W.L. Kg	B.L. Kg	Weight Kg
AUTOMATIC LOCKING LIFELINE HOOK								
1	2834	91	11	55	M6x100	640	1500	0,102
	2835	91	11	55	M8x125	640	1500	0,102

+ TECHNIQUE

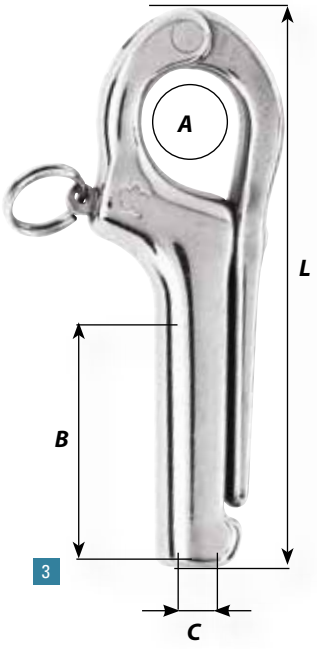
- Automatic locking lifeline hook
- Only takes one hand to operate
- Forged Duplex stainless steel body - composite injection trigger (PBT) - 316L spring and piston
- Extremely strong, UV resistant and corrosion free
- Compact and lightweight
- For M6 and M8 lifelines

Standard locking

+ BENEFITS

- Registered design
- Forged in 316L stainless steel
- For closing lifelines gate
- Off-centre shape allows the wires to be tensioned easily

N°	Part #	Length mm	A mm	B mm	C mm	Tension mm	W.L. Kg	B.L. Kg	Weight Kg
PELICAN HOOKS «PATENTED»									
2	12836	170	20	18	M12 x 175	28	2400	6500	0.558
	12837	170	20	18	M14 x 200	28	3200	6500	0.534
3	2831	100	16	48	M8 x 125	22	640	2300	0.106

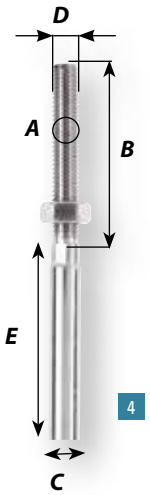


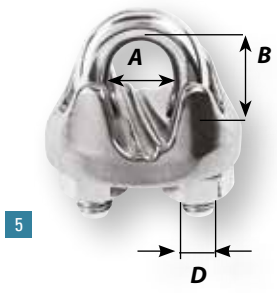
Swage studs & wire grips

N°	Part #	A mm	B mm	C mm	D mm	E mm	For wire Ø mm	Weight Kg
SWAGE STUDS (FOR PART # 2831 ET 2833)								
4	7802	7,5	40	4,3	M8 x 125	40	4	0.036
	7803	9	40	5,3	M8 x 125	48	5	0.042
	7804	11	40	6,3	M8 x 125	56	6	0.056

N°	Part #	For wire Ø mm	A mm	B mm	P mm (min/max)	Weight Kg
WIRE GRIPS						
5	7304	3-5	5	M4 x 70	2/9	0.009
	7306	5-6	7	M5 x 90	4/13	0.020
	7308	7-8	9	M6 x 100	6/17	0.039
	7310	10	11	M8 x 125	8/21	0.083
	7312	12	13	M8 x 125	10/26	0.102

WL: working load - BL: breaking load





Fastenings

Wichard padeyes: Choose the original!

Only Wichard padeyes are completely forged. They are 100% safe, highly resistant to corrosion and their design is suitable for all types of boats.

Wichard offers a wide range of padeyes:

- Folding padeyes in stainless steel or titanium.
- Toe rail padeyes.
- U-bolts.
- Watertight U-bolts.

SOFTEYE 40 STICK ON PADEYE

Do like the Pros!

- Easy installation - no drilling required
- Compact & light
- Applications: Lee cloth, rope retainers, equipment storage etc..
- Materials: Dyneema®, reinforced plastic, fiber glass
- Glue type: Sika 292i or Epoxy.*

N°	Part #	Ø A mm	B mm	L mm	Ø rope mm	*W.L. Kg	*B.L. Kg	Weight Kg
SOFTEYE 40 - STICK-ON PADEYE								
1	6661	40	3	20	3	80	150	0.008
2	6662	40	3	20	3	80	150	0.008

Also available in black color (part# 6662)

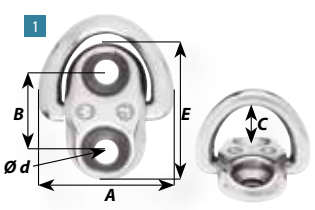
*Indicated loads are for Sika glue installation

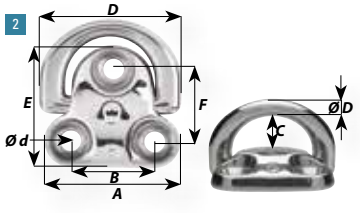
Folding padeyes

+ BENEFITS

- Made in France
- Hot forged
- Available in single and double models
- Available in 316L/17.4 Ph s/s or Titanium
- Outstanding working loads in all position
- Compact, can be folded
- Silicon pad to reduce noise and vibrations
- Aesthetic
- Multi-use: fastening, shrouds, blocks, jackstays etc...
- Part # 6684, 6604, 6605 & 6606 are compliant with ISO 15085 : 2003

N°	Part #	Part #EN795	Ø D mm	A mm	B mm	C mm	Ø d mm	D mm	E mm	F mm	W.L. Kg	B.L. Kg	Weight Kg
FOLDING PADEYE - INCL. SILICON PAD													
1	6684	-	6	40	23.4	mini 15	7	-	40	-	750	1600	0.056
2	6604	66042	6	45	27	15	6	44	41	27	1440	3000	0.078
2	6605	66052	8	57	35	18	8	59	51	35	2400	5000	0.165
2	6606	66062	10	75	45	25	10	80	68	45	4080	9000	0.355



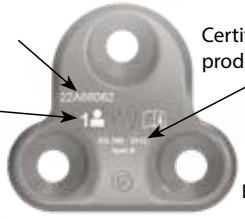


N°	Part #	Ø D mm	A mm	B mm	C mm	Ø d mm	E mm	W.L. Kg	B.L. Kg	Weight Kg
TITANIUM FOLDING PADEYE «PATENTED»										
2	56504	6	45	27	14	6,4	40	1600	3000	0.040
2	56505	8	59	35	17	8,5	50	2720	5000	0.080
2	56506	10	75	45	23	10.5	65	4560	8500	0.174

Code number

1 person authorized per anchoring device

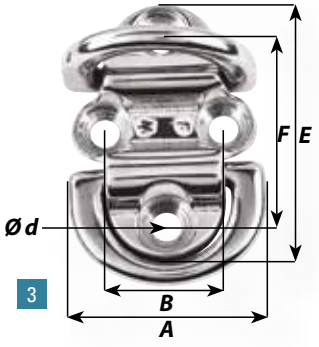
Certification and type of product according to standard



EN795 version

The Wichard double folding padeyes have been designed to attach several shrouds or a removable stay.

N°	Part #	Ø D mm	A mm	B mm	C mm	Ø d mm	E mm	F mm	W.L. Kg	B.L. Kg	Weight Kg
DOUBLE FOLDING PADEYE											
3	6564	6	45	27	14	6,4	75	59	1440	2500	0.126
3	6565	8	59	35	17	8,5	81	59	2400	4300	0.252
3	6566	10	75	45	23	10.5	104	78	4560	9000	0.494



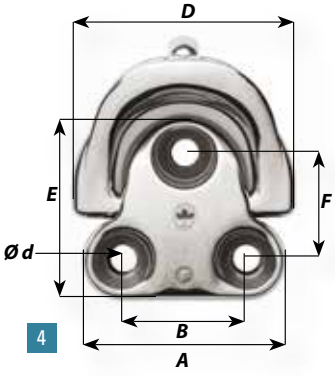
+ BENEFITS

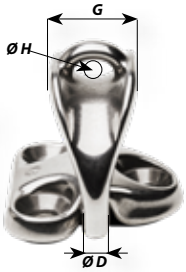
- 3 models available
- Becket feature for 2/1 purchase
- Optimized design to prevent rope wear
- Reduced footprint (less assembly parts)

- Applications:
flying sail furler tensioning, inhauler trimming, removable stay...

- Can not be used for structural applications

N°	Part #	Ø D mm	A mm	B mm	C mm	Ø d mm	D mm	E mm	F mm	G mm	Ø H mm	Ø rope mm	W.L. Kg	B.L. Kg	Weight Kg
FAIRLEAD FOLDING PADEYE															
4	6614	6	45	27	17	6	44	41	23	22	6	8	1200	2400	0.102
4	6615	8	57	35	21,5	8	59	51	30	27	8	10	2100	4200	0.225
4	6616	10	75	45	26	10	81	68	39	32	10	12	3200	6400	0.453





Geared on Class 40

WL: working load - BL: breaking load

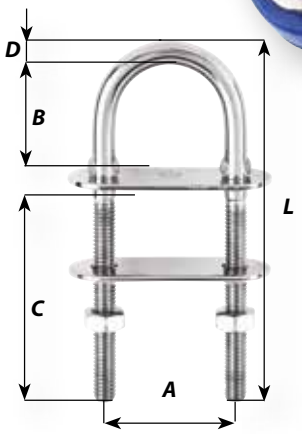
Toe rail pad eyes - U-Bolts pad eyes

Using these sliding padeyes, the toe rail can be used without any risk of damage, for a wide range of applications, such as attaching running rigging, barber hauler, boom brake, kicking strap, or mooring/fender line guide when docked.

N°	Part #	Toe rail	Ø A mini - maxi mm	H mini mm	C mini - maxi mm	D mm	W.L. Kg	B.L. Kg	Weight Kg
TOE RAIL PAD EYES «PATENTED»									
1	16613	Standard	9-13	40	2-4	14	960	3000	0.186
	16614	Asymetric	9-13	40	2-5	14	960	3000	0.186

1

N°	Part #	D mm	L mm	A mm	B mm	C mm	W.L. Kg	B.L. Kg	Max tightening torque Nm	Weight Kg
U-BOLTS										
2	6511	4	50	24	21	27	480	1000	2,3	0.022
	6512	5	60	28	24	30	640	2000	4,5	0.035
	6513	6	70	32	27	35	1280	3000	7,5	0.060
	6523	6	90	32	27	55	1280	3000	7,5	0.067
	6514	8	80	36	30	40	2400	4800	18	0.114
	6524	8	100	36	30	60	2400	4800	18	0.127
	6515	10	90	40	32	45	3600	7000	36	0.200
	6525	10	110	40	32	65	3600	7000	36	0.222
	6516	12	110	44	34	50	6400	10000	60	0.319
	6526	12	130	44	34	70	6400	10000	60	0.349



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Watertight U-bolts

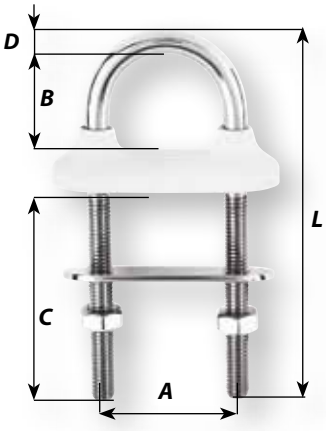
+ BENEFITS

- Registered design - Made in France
- Outstanding working loads
- UV-resistant rubber collar
- Complete watertightness guaranteed
- Available in black and white
- Eliminates need to install watertight seal
- Aesthetically pleasing solution
- Delivered with nuts and counterplate

N°	Part # black	Part # white	D mm	L mm	A mm	B mm	C mm	W.L. Kg	B.L. Kg	Max tightening torque Nm	Weight Kg
WATERTIGHT U-BOLTS «PATENTED»											
3	65321	65322	5	60	28	21	30	640	2000	4,5	0.035
	65331	65332	6	70	32	24	35	1280	3000	7,5	0.060
	65431	65432	6	90	32	24	55	1280	3000	7,5	0.068
	65341	65342	8	80	36	25	40	2400	4800	18	0.123
	65441	65442	8	100	36	25	60	2400	4800	18	0.136
	65351	65352	10	90	40	26	45	3600	7000	36	0.219
	65451	65452	10	110	40	26	65	3600	7000	36	0.238
	65361	65362	12	110	44	27	50	6400	10000	60	0.345
	65461	65462	12	130	44	27	70	6400	10000	60	0.375

WL: working load - BL: breaking load


3



Eye straps

+ BENEFITS

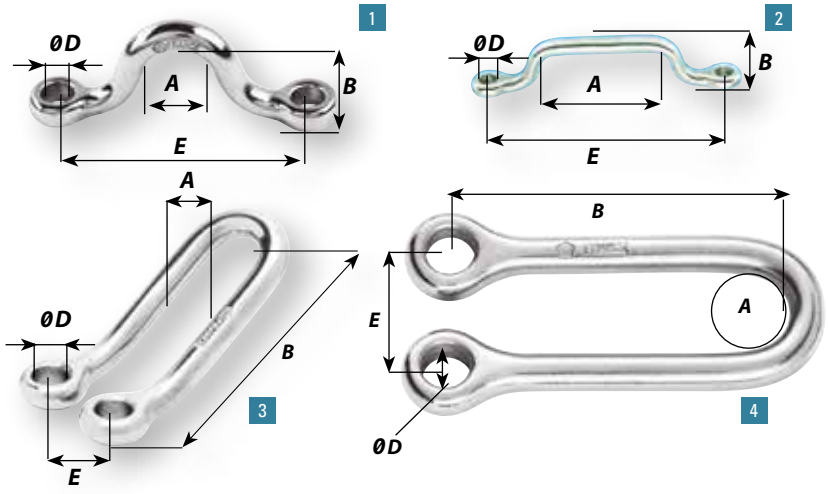
- Hot forged with 316L stainless steel
- High resistance
- Round shape to prevent wear to straps, lines etc…
- Multi-use

N°	Part #	Ø D mm	A mm	B mm	E mm	B.L. Kg	Weight Kg
SADDLES							
1	9201	4	8	11	32	650	0.004
	9202	5	10	14	37,5	1800	0.009
	9203	6	12	16	45	2400	0.016
	9204	8	16	21	60	3500	0.038
	9205	10	20	26	78	7000	0.075

N°	Part #	Ø D mm	A mm	B mm	E mm	Weight Kg
WEBBING EYE STRAPS						
2	9211	4	28	5	56	0.007
	9212	5	34	10	65	0.013
	9222	5	50	12	86	0.018

N°	Part #	Ø D mm	A mm	B mm	E mm	Weight Kg
REEFING EYE STRAP						
	Many purposes like reefing applications.					
3	9412	6	10	35	15	0.019

N°	Part #	Ø D mm	A mm	B mm	E mm	Weight Kg
FLAT EYE STRAP: TO TENSION MULTIHULL TRAMPOLINE						
4	9413	7	12	50	18	0.033



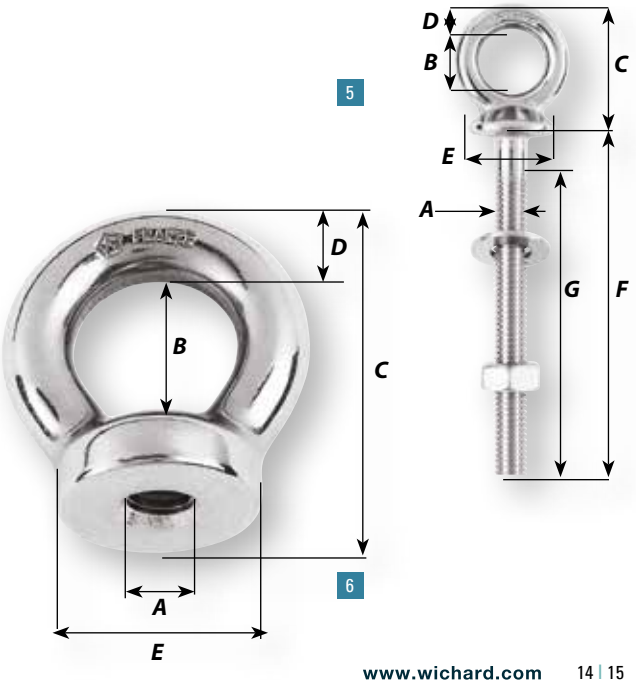
Eye nuts and eye bolts

Wichard eye nuts and eye bolts are single-piece forged components that guarantee you excellent safety standards for your fastenings. They come in a broad range of sizes, enabling you to find the solutions best suited to your circumstances. Should you wish to order large quantities with specific lengths or diameters, Wichard can also manufacture custom-made items.

N°	Part #	A mm	B mm	C mm	D mm	E mm	F mm	G mm	W.L. Kg	B.L. Kg	Max tightening torque Nm	Weight Kg
EYE BOLTS												
5	6490	M6 x 100	12	25	5	17	40	34	560	900	7,5	0.024
	6491	M6 x 100	12	25	5	17	60	54	560	900	7,5	0.027
	6492	M8 x 125	14	30	6	20	80	70	960	1500	18	0.056
	6493	M8 x 125	14	30	6	20	100	90	960	1500	18	0.061
	6495	M10 x 150	16	36	7	25	100	88	1600	2700	36	0.098
	6497	M12 x 175	18	41	8	28	120	105	2400	3500	60	0.163

N°	Part #	A mm	B mm	C mm	D mm	E mm	*B.L. Kg	Weight Kg
EYE NUTS								
6	6333	M6 x 100	13	27	6	17	1500	0.022
	6334	M8 x 125	13	27	6	17	2200	0.020
	6344	M8 x 125	17	36	8	22	3000	0.051
	6345	M10 x 150	17	36	8	22	4500	0.049
	6355	M10 x 150	22	46	10	28	4800	0.099
	6356	M12 x 175	22	46	10	28	5200	0.095
	6366	M12 x 175	27	56	12	34	7000	0.175
	6367	M14 x 200	27	56	12	34	9000	0.171
	6368	M16 x 200	27	56	12	34	10000	0.165

** The strength figures given are an indication only and change according to specification of the end fitting*



WL: working load - BL: breaking load

RANGE OF FIXED PADEYES

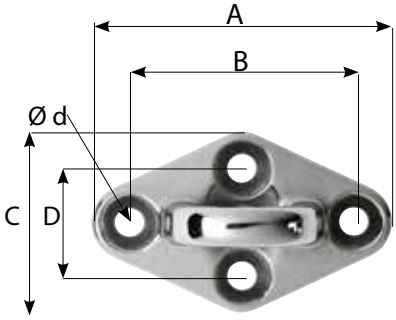
BENEFITS

- Multi-use : mast foot blocks, reefing blocks, various fastenings
- Mechanical resistance versus corrosion resistance ratio
- Optimized dimensions
- Rounded model for ropes and webbings
- Squared model for stainless steel fastening (fork) and webbing
- 3 sizes per model
- Material : stainless steel Duplex

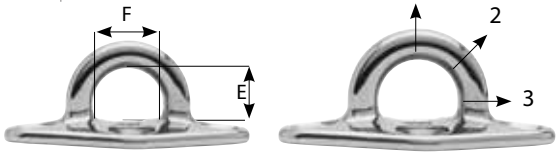
2

1

	part #	A mm	B mm	C mm	D mm	Ø d mm	E mm	F mm	W.L.1 Kg	W.L.2 Kg	W.L.3 Kg	B.L.1 Kg	B.L.2 Kg	B.L.3 Kg	Weight Kg
FIXED PADEYES - ROUNDED MODEL FOR TEXTILE FASTENINGS															
	6644	60	46	38	24	M5	14.5	19	1200	1100	1100	3200	3000	3000	0.059
1	6645	79	60	50	32	M6	18.5	22	2900	2600	2400	7800	6900	6300	0.143
	6646	98	73	59	35	M8	22	27	4200	4200	4100	11200	11200	11000	0.250

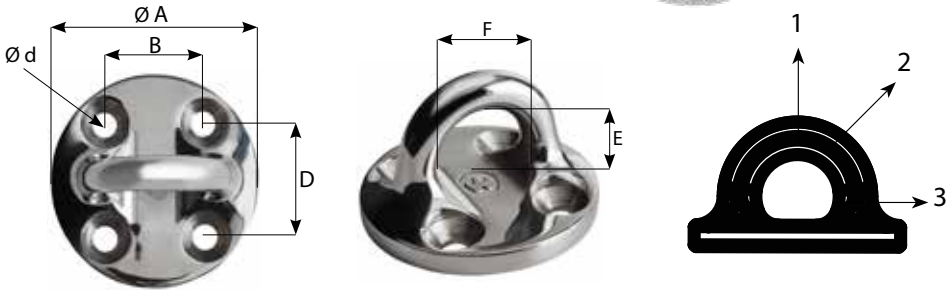


	Part #	A mm	B mm	C mm	D mm	Ø d mm	E mm	F mm	W.L.1 Kg	W.L.2 Kg	W.L.3 Kg	B.L.1 Kg	B.L.2 Kg	B.L.3 Kg	Weight Kg
FIXED PADEYES - SQUARED MODEL FOR STAINLESS STEEL FASTENING															
	6654	60	46	38	24	M5	12	19	1200	1200	1100	3200	3200	3000	0.059
2	6655	79	60	50	32	M6	15.5	22	2700	2600	2400	7300	6900	6300	0.145
	6656	98	73	59	35	M8	19.5	27	4300	4300	4100	11600	11600	11000	0.255



	part #	Ø A mm	B mm	D mm	Ø d mm	E mm	F mm	W.L.1 Kg	W.L.2 Kg	W.L.3 Kg	B.L.1 Kg	B.L.2 Kg	B.L.3 Kg	Weight Kg
FIXED ROUND PADEYES														
	6635	57	27	30	M6	19	22	2300	2050	1950	4550	4100	3900	0.150
3	6637	76	33	40	M10	26	35	4280	3760	3080	10070	9030	7430	0.360
	6638	95	44	48	M12	26	42	5250	5080	4360	12260	12180	10450	0,700

3



BENEFITS

- 3 models available
- Multi-use : reefing blocks, fastening point on bowsprit, fastening point for blocks.
- Outstanding mechanical resistance
- High corrosion resistance
- Material : Duplex stainless steel grade

WL: working load - BL: breaking load

Snap hooks

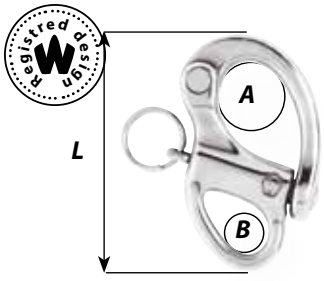
Whatever your application, you will always find the appropriate Wichard snap hook.

Wichard offers a complete range of snaps hooks:

- «HR» snap shackles.
- Trigger snap shackles.
- Quick release snap shackles.
- Snap hooks.
- Carbine hooks.
- Mooring hooks.

The Wichard snap hooks will never break suddenly!
They show signs of deformation long before reaching the breaking point.

"HR" Snap Shackles



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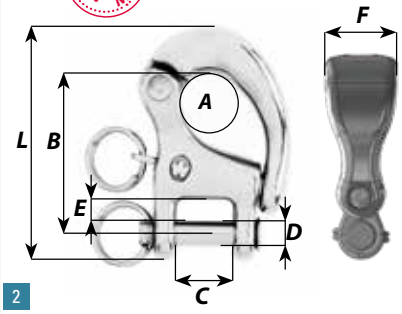

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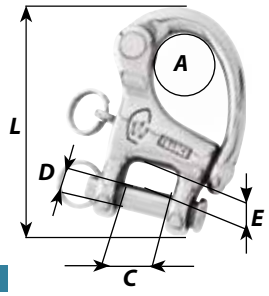

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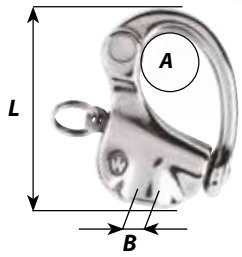

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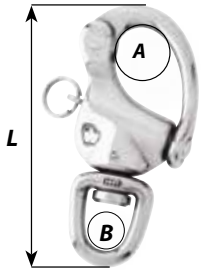

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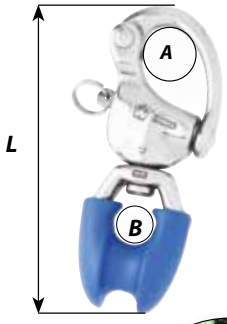

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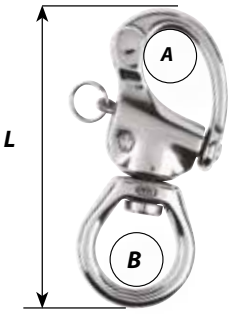

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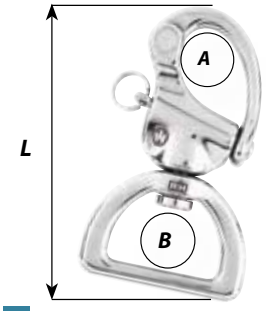

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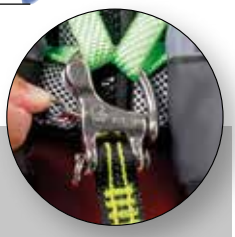
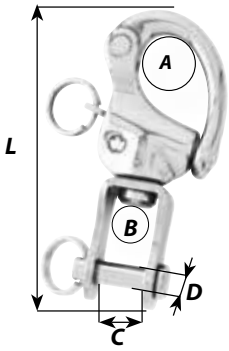


+ BENEFITS

- Forged in HR stainless steel
- Designed and made in France
- High resistance
- Captive plunger pin
- Large range
- Easy opening
- Multi-use: halyards, tethers etc...



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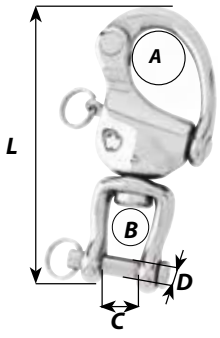


10

N°	Part #	Length mm	A mm	B mm	C mm	Ø D mm	E mm	F mm	W.L. Kg	B.L. Kg	Weight Kg
FIXED EYE											
1	2470*	35	8	6					160	400	0.012
	2471	50	16	10					960	2000	0.042
	2472	70	21	13					1280	3000	0.090

N°	Part #	Length mm	A mm	B mm	C mm	Ø D mm	E mm	F mm	W.L. Kg	B.L. Kg	Weight Kg
SNAP SHACKLE WITH FAIRLEAD FEATURE											
2	**2294**	54	8	36,6	13	6	5,1	19	960	2000	0,093
CLEVIS PIN											
3	2293	52	16	8	13	6	5,10		960	2000	0.054
	2295	70	21	11,5	16	8	7,80		1280	3850	0.130
	2297	86	26	14	21	10	9,30		2800	7000	0.257

N°	Part #	Length mm	A mm	Metric thread (Iso) B	W.L. Kg	B.L. Kg	Weight Kg
WITHOUT SWIVEL WITH FEMALE THREAD							
4	72473	45	16	M7 x 75			0.042
	72475	60	21	M9 x 75			0.096
	72477	80	26	M12 x 100			0.222

N°	Part #	Length mm	A mm	B mm	C mm	Ø D mm	E mm	W.L. Kg	B.L. Kg	Weight Kg
SWIVEL EYE										
5	2473	70	16	11				960	2000	0.065
	2475	90	21	14				1280	3700	0.136
	52475*	90	Titanium					1200	2800	0.094
	2477	120	26	21				2800	7000	0.353
WITH THIMBLE EYE										
6	2493	95	16	12				960	2000	0.076
	2495	110	21	14				1280	2400	0.150
LARGE BAIL										
7	2373	80	16	19				960	2000	0.070
	2375	105	21	26				1280	3600	0.160
	2377	140	26	35				2800	7500	0.398
WEBBING SWIVEL										
8	2374	80	16	30				960	2000	0.085
	2376	100	21	40				1280	3850	0.170
WITH CLEVIS PIN SWIVEL										
9	2474	70	16	15	12	6		800	1600	0.071
10	2476	90	21	17	11	7		1280	3800	0.154
10	2478	120	26	27	18	11		2400	7000	0.417

WL: working load - BL: breaking load

**Note parts #: 2470 and 52475 are not «HR»*

Speedlink trigger snap shackle

Lightweight:

Speedlink was developed using finite element analysis software, and has an optimised design. Its shape, cut-outs and ribs make it extremely light, and give it one of the best strength/weight ratios on the market.

A modern design...

Speedlink's ultra-technical lines make it one of the most modern and efficient snap shackles available.

- The special load-bearing surface of the swivel eye avoids excessive rope wear.
- Its overall design prevents adjacent lines from jamming.

... for efficient operations

- Easy opening: opening under load, by using the release fid, is easy and effortless thanks to the generous passage diameter and its optimised slopes.
- Secure locking: the special shape of the latch reduces inertia and avoids unintentional opening, especially under impact, while the distribution of stresses limits the effort needed to open it under load.

Sturdy:

Speedlink is forged in HR stainless steel and can bear exceptional working and breaking loads for a minimum weight.

1

Universal eye:
Halyard - Spinnaker - Peeling

+ BENEFITS

- Universal eye version
- For halyards, spinnaker sheets...
- Can handle 2 sheets or 1 sheet and 1 snap hook/shackle
- Forged in HR s/s
- Designed and made in France

2

Webbing eye: Tack point

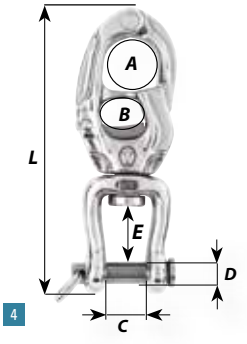
+ BENEFITS

- Webbing eye version
- For foresail tack points
- Optimized design for fitting to webbing
- Forged in HR s/s
- Designed and made in France

3

Release fid
- anodised aluminium - Length: 15 cm - Part # 10302

N°	Part #	Length mm	A mm	B mm	C mm	W.L. Kg	Weight Kg
UNIVERSAL EYE: FOR HALYARD, SPINNAKER AND PEELING							
1	2650	74	14	11,5		1100	0.059
	2652	87	17	15,5		1440	0.097
	2654	108	21	22		2320	0.173
	2656	134	25	26		4300	0.326
EYE FOR WEBBING: FOR TACK POINT APPLICATIONS							
2	2750	72	14	11	23	1100	0.058
	2752	83	17	13	26	1440	0.095
	2754	102	21	17	35	2320	0.174
	2756	128	25	21	59	4300	0.337



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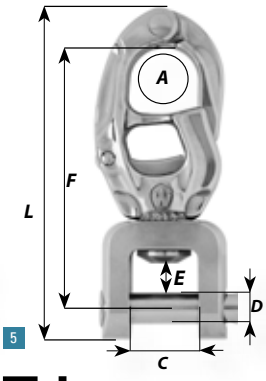

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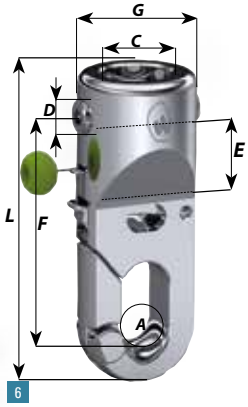


6

Trigger snap shackles

N°	Part #	Length mm	A mm	B mm	C mm	D mm	E mm	W.L. Kg	Weight Kg
SWIVEL SHACKLE (HR STAINLESS STEEL)									
4	2852	105	17	13	11	7	18	1440	0.110
	2856	135	27	19	18	11	26	4100	0.360

N°	Part #	Length mm	A mm	C mm	D mm	E mm	F mm	W.L. Kg	Weight Kg
VERSION WITH FORK (HR STAINLESS STEEL)									
5	2956	129	25	26	12	17.10	110	4300	0.400

N°	Part #	Length mm	A mm	C mm	D mm	E mm	F mm	G mm	W.L. Kg	B.L. Kg	Weight Kg
TRIGGER SNAP SHACKLE _8T											
6	2957	126	17	28.3	14	12.5	94	47	8000	13000	0.400

WL: working load - BL: breaking load

Opening luff Rope Prefeeder for racing foils and furling systems

Performance

Before re-hoisting, the bowman doesn't need to remove the headsail from the luff grove, he just has to open the prefeeder and close it around the luff tape. No need to remove the headsail anymore!

Ease of use

To open it simply push the spring with your thumb, the jaws will open automatically. To close, squeeze the jaws together between your thumb and fingers, until the spring reengages.

Features :

- Single handed operation by pushing on the spring
- Easy to install with a lashing or fixed to the forestay
- Stainless steel product benefiting from the Wichard know-how to offer the highest reliability
- Weight: 0.050 kg
- Part # 7485

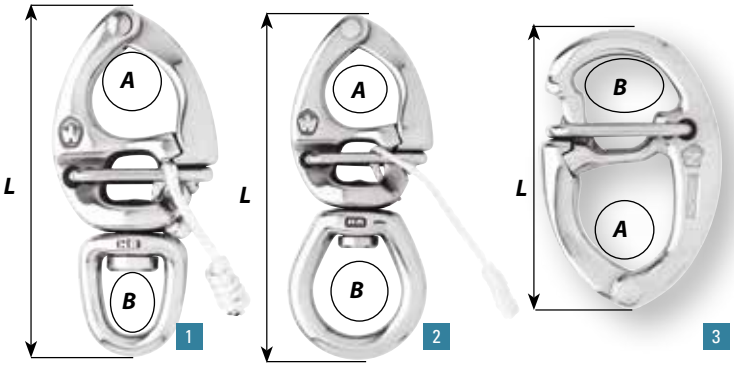
Easy to install

The prefeeder can be easily installed below any headsail foil or headsail reefing configuration. In the closed position, it ensures a smooth and easy sail hoist.

Quick release snap shackles

+ BENEFITS

- Forged in HR stainless steel
- Designed and made in France
- Available with swivel eye, large eye and tack snap configuration
- Ideal for sheets (genoa, spinnaker)
- Outstanding working loads
- Control line for easy to release
- Aesthetic

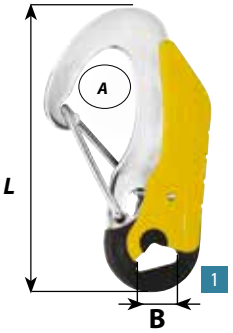


N°	Part #	Length mm	A mm	B mm	W.L. Kg	B.L. Kg	Weight Kg
WITH SWIVEL EYE							
1	2673	70	14	11	880	1500	0.059
	2674	80	16	12	1280	2300	0.088
	2675	90	20	13,5	1600	3200	0.136
	2676	110	25	16	2400	4200	0.233
	2677	130	30	20	3200	6300	0.371
	2678	150	34	24	5200	9000	0.548
WITH LARGE BAIL							
2	2773	80	14	19	880	1300	0.054
	2774	90	16	23	1280	2000	0.100
	2775	110	20	26,5	1600	3000	0.160
	2776	120	25	31	2400	4000	0.271
	2777	145	30	35,5	2800	6300	0.396
	2778	160	34	41	5200	8000	0.618
TACK SNAP SHACKLE							
3	2575	70	20	25	1280	2300	0.095

Double action safety hooks

BENEFITS

- Registered design - Made in France
- Forged in 316L stainless steel
- Torsion spring
- Opens with one hand
- No risk of accidental opening
- Integrated into the Wichard tethers

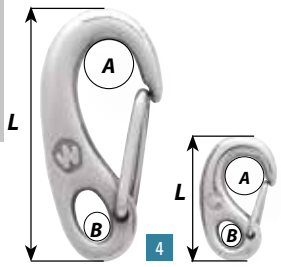


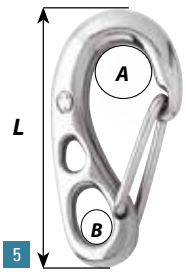
N°	Part #	Colour	Length mm	A mm	B mm	W.L. Kg	B.L. Kg	Weight Kg
DOUBLE ACTION SAFETY HOOK «PATENTED»								
1	2454	Yellow	115	18	19 x 10	1200	2800	0.126
2	2455	Blue	115	18	19 x 10	1200	2800	0.126
3	2452	Fluorescent	115	18	19 x 10	1200	2800	0.126

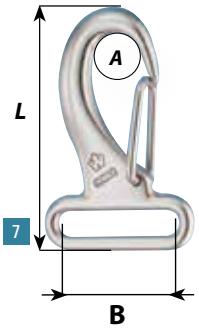
Safety snap hooks

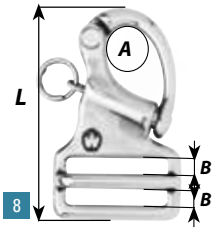
BENEFITS

- Registered design - Made in France
- Forged in 316L or HR stainless steel
- Outstanding working loads
- Aesthetic design
- Multi-use on board









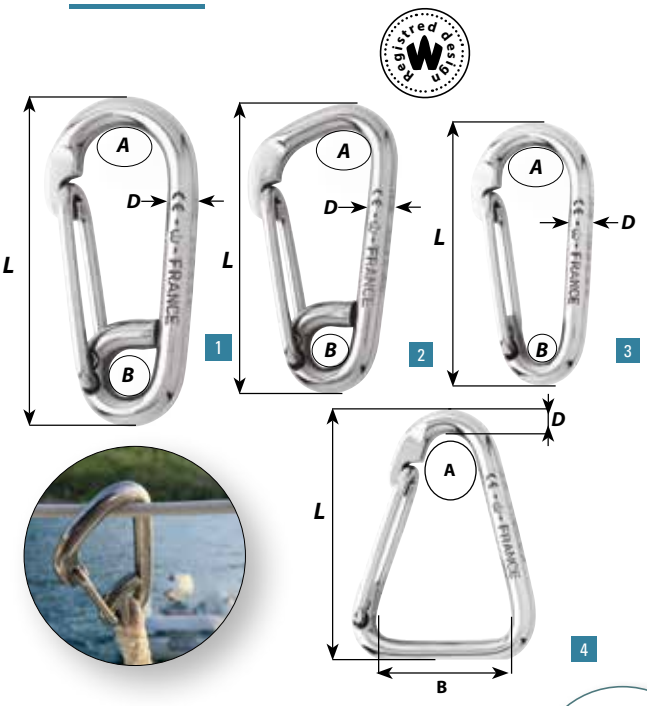
N°	Réf	Long mm	A mm	B mm	W.L Kg	B.L. Kg	Weight Kg
SNAP HOOKS «PATENTED»							
4	2448	25	4	3	55	110	0.006
	2479	35	6	4	80	150	0.010
	2480	50	8	6	200	300	0.023
	2481	75	12	10	480	700	0.067
	2482	100	16	13	1120	1500	0.186
SAFETY SNAP HOOK «HR»							
	Models forged in 17.4 Ph (HR stainless steel)						
5	2381	75	12	10	880	1600	0.064
	2382	100	17	14	1680	4000	0.167
SWIVEL SNAP HOOKS							
6	2384	70	8	13	200	300	0.036
	2385	100	12	19	480	750	0.102
WEBBING SNAP HOOK							
7	2284	60	8	30	200	300	0.035
8	2270	44	8	3	160	400	0.014

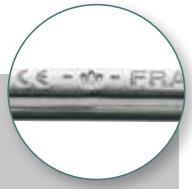
WL: working load - BL: breaking load

Carbine hook

N°	Part #	D mm	Length mm	A mm	B mm	W.L. Kg	B.L. Kg	W.L.L Kg	Weight Kg
SYMMETRIC									
1	2313	6	60	10	7	360	600	120	0.030
	2315	8	80	13	11	880	1300	260	0.072
	2316	10	100	15	13	1200	2500	500	0.132
	2317	12	120	21	16	1360	3600	720	0.229
ASYMMETRIC									
2	2323	6	60	11	7	400	800	160	0.031
	2325	8	80	15	11	960	1500	300	0.073
	2326	10	100	18	13	1320	2500	500	0.136
	2327	12	120	24	16	1440	4500	900	0.234
	2328	12	170	30	20	1440	4500	900	0.336
WITHOUT EYE									
3	2333	6	60	10	8	360	600	120	0.028
	2335	8	80	13	13	880	1600	320	0.062
	2336	10	100	15	14	1200	2500	500	0.124
	2337	12	120	21	16	1360	3800	760	0.200

N°	Part #	D mm	Length mm	A mm	B mm	W.L. Kg	B.L. Kg	W.L.L Kg	Weight Kg
DELTA HOOKS									
4	2345	8	80	13	40	720	1200	240	0.075
	2346	10	100	16	50	1120	2200	440	0.140





+ BENEFITS

- Designed and made in France
- Available with eye to attach strap, or without eye
- Symmetric or asymmetric shape
- Perfect for fast operations
- Standard on Wichard tethers (part # 7001, 7002, 7011)
- Wichard carbine hooks bear the CE/WLL marking

Working Load (WL): for nautical applications.

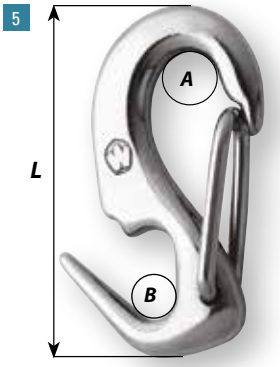
Working Load Limit (WLL): for industrial applications only.
The safety factor is 5 times the breaking load.
WLL = Breaking load / 5

"One hand" sail snaps

+ BENEFITS

- Ideal for setting a headsail
- One hand operation
- Available in 316L stainless steel or brass
- Efficient operation : does not jam

N°	Part #		Length mm	A mm	B mm	W.L. Kg	B.L. Kg	Weight Kg
«ONE HAND» SAIL SNAPS								
4	2486	stainless steel	50	7,5	6,5	160	300	0.022
	2483	stainless steel	55	9	8	240	400	0.037
	2487	stainless steel	65	11	10	400	550	0.059
	2489	stainless steel	80	13	11,5	560	800	0.100
	2488	stainless steel	90	17	13	800	1050	0.143
	2490	stainless steel	110	24	15	960	1300	0.244
5	72486	brass	50	7,5	6,5	80	100	0.030
	72483	brass	55	9	8	120	180	0.036
	72487	brass	65	11	10	200	250	0.056



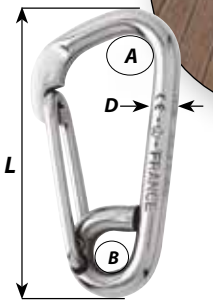
WL: working load - BL: breaking load

Mooring hooks

+ BENEFITS

— 2 models available: simple or automatic
— Can be used on most boat hooks
— Perfect for mooring buoys

1

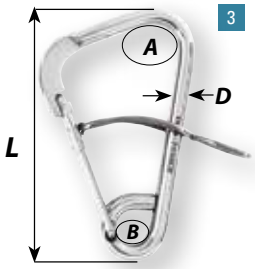


2

N°	Part #	Ø mm	Length mm	A mm	B mm	Weight Kg
SIMPLE MOORING HOOKS (incl spare attachment fitting)						
1	92326	10	100	18	13	0.176
	92327	12	120	24	16	0.280
	92328	12	170	30	20	0.378

SPARE ATTACHMENT FITTING FOR MOORING HOOKS		
2	72326	For part # 92326 - Weight: 0.025 Kg
	72327	For parts # 92327 and 92328 - Weight: 0.035 Kg

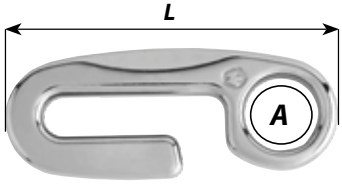
3



N°	Part #		D mm	Length mm	A mm	B mm	Weight Kg
AUTOMATIC MOORING HOOKS							
3	2329	Automatic	12	170	30	20	0,380

Chain grip

N°	Part #		Length mm	A mm	W.L. Kg	Weight Kg
CHAIN GRIP						
4	2994	For 8 mm chain	85	17	480	0.088
	2995	For 10 mm chain	103	22	720	0.156
	2996	For 12 mm chain	125	24	960	0.287



4

+ BENEFITS

— Complete chain grip kit
— Ready to use
— No splicing knowledge required
— 1 stainless steel chain grip
— 1 pre-spliced twisted 3 strand polyester
— Available for the 3 Wichard chain grip models
— Wear indicator
— Color: black / blue
— Applications: mooring
— Suitable for sailing and motor boats

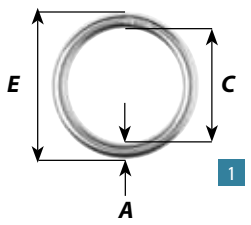
N°	Part #		Chain grip part#	Rope length m
CHAIN GRIP KIT				
5	29944	Rope 12 mm - Length 4m	2994	4
	29955	Rope 12 mm - Length 5m	2995	5
	29966	Rope 16 mm - Length 6m	2996	6

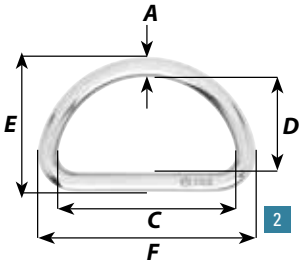
5

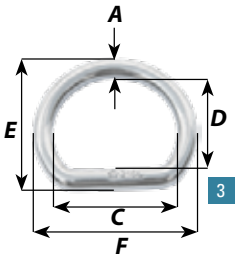
Rings and adjusters

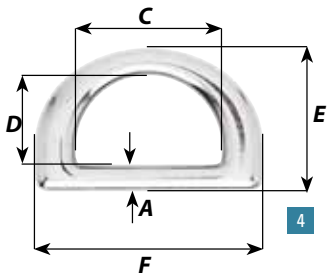
Wichard stainless steel rings and adjusters are hot drop forged from 316L stainless steel in a single piece, not just bent and welded. Forging is a far superior process, because it maintains the structural integrity of the metal and increases working load limits in real world applications. Each part is polished and passivated to create a beautiful, yet durable surface that is highly resistant to corrosion. The "W" pentagon (plus 316L) mark stamped into each part is your Wichard quality assurance.

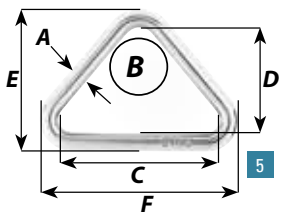
Part #	N°	Description	A mm	B mm	C mm	D mm	E mm	F mm	G mm	B.L. Kg	Weight Kg
RING											
6782		Ring	5	-	21.5	-	31.5	-	-	2000	0.014
6783	1	Ring	5	-	33	-	43	-	-	2000	0.018
6784		Ring	7.3	-	45	-	59.6	-	-	4000	0.057
6711	2	D Ring	6	-	40.4	21	33	52.4	-	3000	0.029
6712		D Ring	6	-	50.2	26.4	38.5	62.2	-	3000	0.035
6721	3	D Ring	5	-	30	25	35	40	-	2000	0.019
16504		«HR» D Ring	6	-	28	17	29	45.5	-	2700	0.026
16505	4	«HR» D Ring	7.3	-	36.5	22	37.5	59	-	4500	0.058
16506		«HR» D Ring	10	-	46.9	28.5	47.4	75.3	-	9000	0.120
ADJUSTERS											
6731	5	Triangle	4.4	18.2	30	20.6	28.6	38	-	1200	0.010
6732		Triangle	6	28.2	50	32.5	45	63	-	3000	0.037
6751	6	Triangle with bar	6.3	24.5	45	26	10	57.6	54.9	3000	0.058
6771	7	Double adjuster	4	-	41.5	5	7	58	38	1200	0.051
6772	8	Double adjuster	5-8	-	44.7	13.8	14.7	60	47.8	3000	0.078

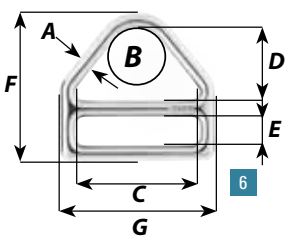


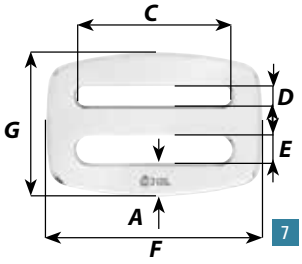


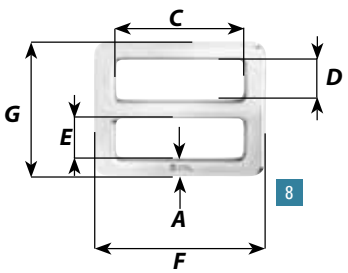












WL: working load - BL: breaking load

Swivels

The Wichard swivels are used to link two parts which may have different rotation directions. Wichard offers a complete range of swivels forged either with HR stainless steel or grade 316L stainless steel.

Wichard offers a complete range of swivels:

— With clevis pin or pin with allen head.
— With large bail.
— For webbing applications.
— For mooring applications.

Swivels

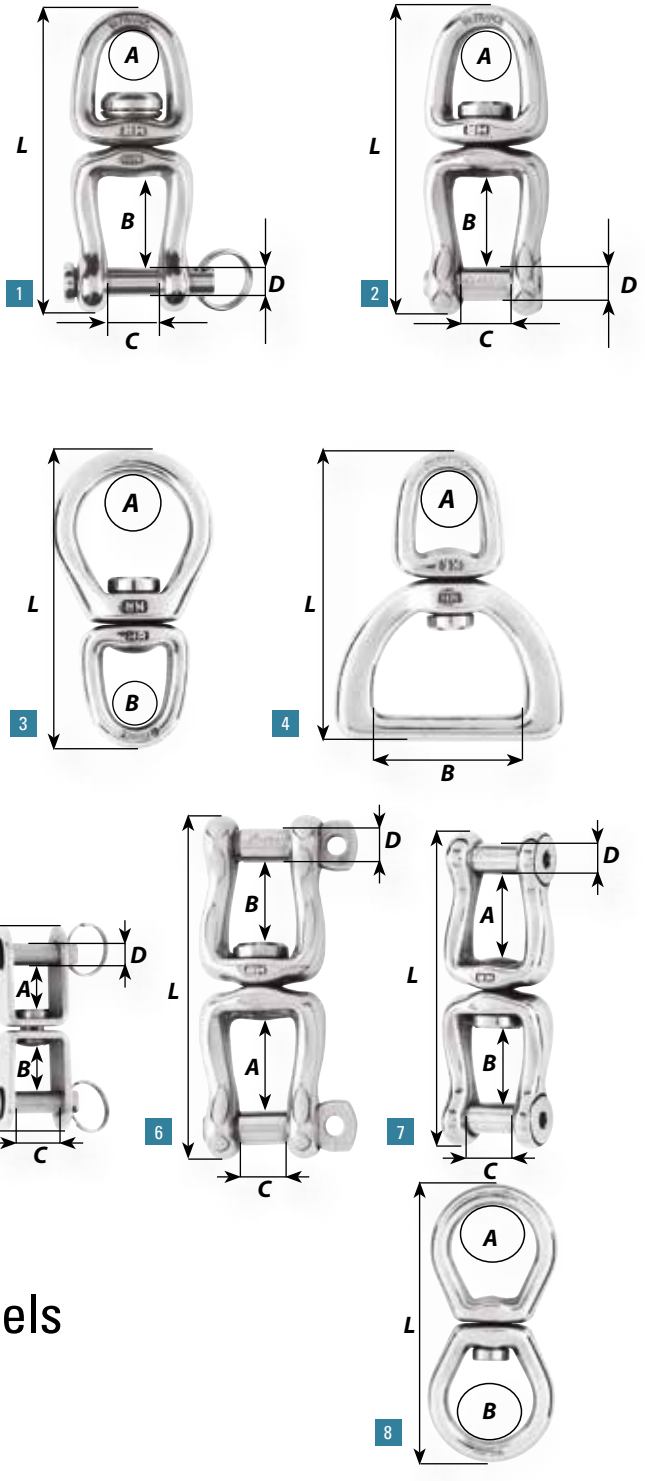
Swivels « HR »

+ BENEFITS

- Full range of products
- Forged in 17.4 Ph HR stainless steel
- Outstanding working and breaking loads
- Ball bearing models available
- Multi-use on board
- HR swivels are not recommended for use underwater

N°	Part #	Length mm	A mm	B mm	C mm	Ø D mm	W.L. Kg	B.L. Kg	Weight Kg
WITH CLEVIS PIN									
1	2464	70	14	21	11	7	1600	2800	0.087
	82464	70	same with ball bearings				1600	2800	0.087
	2465	105	19	31	18	11	3200	6000	0.280
	82465	105	same with ball bearings				3200	6000	0.280
PIN WITH ALLEN HEAD									
2	2364	70	14	21	11	8	1440	2800	0.084
	2365	105	19	31	18	10	3200	5500	0.265
LARGE BAIL									
3	2467	80	26	14			1600	3000	0.096
	82467	80	same with ball bearings				1600	3000	0.096
	2468	115	35	19			3200	6500	0.263
	82468	115	same with ball bearings				3200	6500	0.268
	2466	125	41	21			5200	8500	0.368
WEBBING SWIVEL									
4	2367	60	11	30			960	1500	0.056
	2368	80	14	40			1600	3200	0.107
Fork - FORK (SS CAMBERED PLATE)									
5	2461*	45	9	10	10	5	480	1000	0.026
	2462*	60	15	13	12	6	720	1400	0.052
TRADUCTION									
6	2463	80	20	17	11	8	1440	2800	0.102
	2469	120	30	27	18	10	2000	5000	0.322
ALLEN HEAD PIN									
7	2363	80	20	17	11	8	1440	2800	0.099
	2369	120	31	27	18	10	2000	5000	0.312

** Parts # 2461 and 2462 are not "HR".*



Mooring swivels

+ BENEFITS

- Forged in specific grade of stainless steel
- Designed and made in France
- Excellent corrosion resistance
- To be used with shackles # 1206, 1207, 1246, 1247 and 1248

N°	Part #	Length mm	A mm	B mm	W.L. Kg	B.L. Kg	Weight kg
MOORINGS SWIVEL							
8	2442	130	38	35	1760	4000	0.290
	2443	150	44	41	2960	5500	0.415

WL: working load - BL: breaking load

Shackles

The quality of our products, and in particular our shackles, has proven its worth in many applications and especially in extreme sports.

Why choose a Wichard shackle?

— Remarkably strong
— Optimal size and weight
— Proven resistance to corrosion
— Quality manufacturing
— A wide range of products

Accessories on page 32

A wide range of products

Wichard provides the most complete range of shackles on the market. You'll find the right Wichard shackle for your boat or other applications.

+ A WIDE CHOICE AVAILABLE:

— Rope diameter: 4 mm to 24 mm
— Breaking load: 700 kg to 35 tonnes

Captive pin shackle -
no risk of losing the pin

+ VARIOUS MATERIALS:

316L S/Steel, 17.4 PH (HR) S/Steel, Duplex S/Steel or titanium; it's your choice:

— 316L stainless steel: the right compromise between strength and resistance to corrosion.
— 17.4 PH (HR) stainless steel: for greater mechanical strength.
— Titanium (Ta6V): when weight saving is the priority

Self-locking pin -
avoids accidental release due to vibrations

+ VARIOUS FUNCTIONS:

Self-locking pin, captive pin, quick-release pin, allen head pin... Wichard makes different versions for various applications.

+ VARIOUS SHAPES

Our shackles come in various shapes to ensure they do a proper job, in the right conditions, and last for a long, long time.

+ CE MARKING:

Some of our products can be used as lifting accessories and as such bear the CE marking (awarded under the auto-certification scheme in accordance with the Machines Directive 2006/42).

Each product displays the following information

— Working Load Limit (WLL)
— CE marking, product origin, manufacturer's logo
— Materials

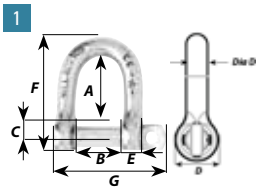
Working Load (WL): for nautical applications.

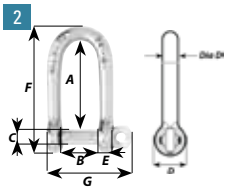
Working Load Limit (WLL): for industrial applications only.
The safety factor is 5 times the breaking load. WLL = Breaking load / 5

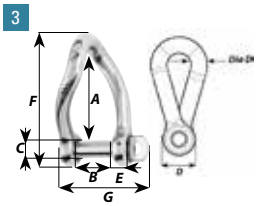
Self-locking shackles

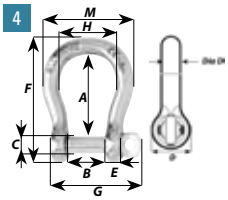
+ BENEFITS

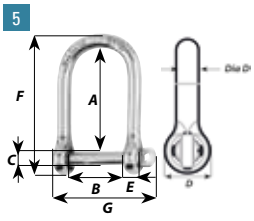
- Large range of self-locking shackles
- Head of shackle pin locked into one of the notches
- Avoids accidental release due to vibrations
- Available in various versions to suit many applications
- Forged in 316L stainless steel
- Designed and made in France

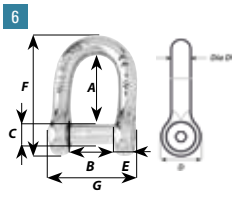


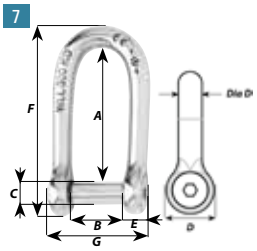


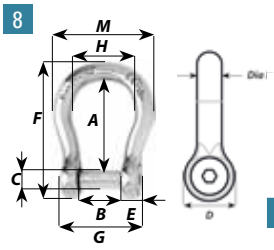


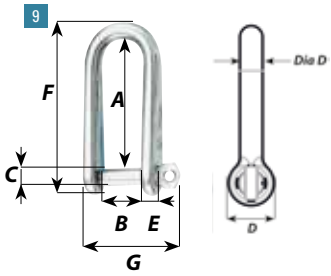












N°	Part #	Dia D mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	M mm	W.L. Kg	B.L. Kg	W.L.L Kg	Weight Kg
SELF-LOCKING D SHACKLES															
1	1201	4	13	8	4	8	3	23	20	-	-	320	700	140	0.007
	1202	5	16	10	5	10	4	29	26	-	-	400	1000	200	0.013
	1203	6	20	12	6	12	5	34	31	-	-	600	1600	320	0.022
	1204	8	26	16	8	16	7	45	41	-	-	1000	2700	540	0.055
	1205	10	33	20	10	19	9	57	52	-	-	1520	4300	860	0.098
	1206	12	42	27	12	24	11	73	62	-	-	2080	6000	1200	0.193
	1207*	14	47	28	14	28	13	82	78	-	-	2400	8000	1600	0.312
SELF-LOCKING LONG SHACKLES															
2	1211	4	22	8	4	8	4	32	21	-	-	320	700	140	0.08
	1212	5	29	10	5	10	4	41	26	-	-	400	1000	200	0.017
	1213	6	33	12	6	12	5	47	31	-	-	600	1600	320	0.027
	1214	8	45	16	8	16	7	64	41	-	-	1000	2700	540	0.066
	1215	10	55	20	10	19	9	79	52	-	-	1520	4300	860	0.128
	1216	12	66	26	12	24	11	98	62			2080	6000	1200	0.240
SELF-LOCKING TWISTED SHACKLE															
3	1222	5	26	10	5	10	4	38	26	-	-	480	1100	-	0.016
	1223	6	30	12	6	12	5	45	31	-	-	600	1500	-	0.027
	1224	8	40	16	8	16	7	60	41	-	-	1000	3000	-	0.067
	1225	10	50	20	10	19	9	74	52	-	-	1440	4500	-	0.127
SELF-LOCKING BOW SHACKLES															
4	1241	4	18	8	4	8	3	28	20	13	21	320	700	140	0.009
	1242	5	23	10	5	10	4	35	25	16	25	400	1000	200	0.017
	1243	6	28	12	6	12	5	43	33	19.5	32	600	1500	300	0.030
	1244	8	37	16	8	16	7	56	41	25.5	39	1000	2700	540	0.068
	1245	10	47	20	10	20	9	71	52	32	52	1520	4300	860	0.137
	1246	12	55	27	12	24	10	87	61	38.5	63	2080	6000	1200	0.233
	1247*	16	70	32	16	32	15	112	88	51	85	3200	10000	2000	0.540
	1248*	20	80	40	20	40	18	135	108	60	100	4500	15000	3000	1.056
SELF-LOCKING LARGE OPENING SHACKLE															
5	1262	5	36	20	5	11	5	48	35	-	-	330	1100	220	0.016
	1263	6	42	25.5	6	14	6	58	44	-	-	450	1500	300	0.027
	1264	8	57	32	8	17	8	77	57	-	-	810	2700	540	0.067
	1265	10	72	40	10	21	10	99	71	-	-	1280	4000	800	0.127
ALLEN HEAD PIN SHACKLES «D»															
The head of the pin does not stick out from the shackle's body, thus eliminating any risk of snagging.															
6	1303	6	19	12	6	12	5	34	25	-	-	600	1600	320	0.022
	1304	8	26	16	8	16	7	46	33	-	-	960	2700	540	0.053
	1305	10	33	20	10	19	9	57	41	-	-	1440	4300	860	0.099
	1306	12	42	27	12	24	10	73	49	-	-	2080	6000	1200	0.187
	1363	6	42	25.5	6	14	6	58	38	-	-	450	1500	300	0.044
(specially designed for batten cars)															
ALLEN HEAD PIN LONG SHACKLES															
7	1313	6	33	12	-	-	-	-	-	-	-	600	1600	-	0.027
	1314	8	45	16	-	-	-	-	-	-	-	1000	2700	-	0.066
ALLEN HEAD PIN SHACKLES «BOW»															
The head of the pin does not stick out from the shackle's body, thus eliminating any risk of snagging.															
8	1343	6	27	12	6	12	5	42	24	-	32	600	1500	300	0.029
	1344	8	37	16	8	16	7	56	32	-	40	960	2700	540	0.067
	1345	10	47	20	10	20	9	72	40	-	52	1440	4300	860	0.133
	1346	12	55	27.2	12	24	10	87	50	-	63	2080	6000	1200	0.222
TACK SHACKLES															
These shackles are specially designed for adjustment to the width of goosenecks.															
9	1233	6	45	16	6	13	4	60	33	-	-	520	1500	-	0.048
	1234	8	59	21	8	17	6	79	45	-	-	800	2300	-	0.110

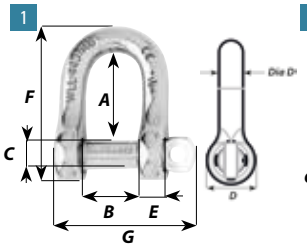
WL: working load - BL: breaking load

* Parts # 1247, 1248 and 1207 are not self-locking shackles.

Captive pin shackles

N°	Part #	Dia d mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	M mm	W.L. Kg	B.L. Kg	W.L.L Kg	Weight Kg
CAPTIVE PIN «D» SHACKLES															
1	1401	4	13	8	5	9	4	24	22	-	-	320	1000	200	0.009
	1402	5	16.50	10	6	11	5	30	30		-	480	1500	300	0.016
	1403	6	20	12	7	14	6	36	32		-	680	2200	440	0.028
	1404	8	26	16	9	18	8	47	42		-	1080	3600	720	0.061
	1405	10	33	20	11	21	9	58	53		-	1560	5200	1040	0.114
	1406	12	39	24	13	24	11	69	62		-	2100	7000	1400	0.188
CAPTIVE LONG «D» SHACKLES															
2	1411	4	31	8	5	9	4	41	22			320	1000	200	0.012
	1412	5	39	10	6	11	5	52	27			480	1500	300	0.024
	1413	6	46	12	7	14	6	63	32			680	2200	440	0.040
	1414	8	62	16	9	17	8	82	43			1080	3600	720	0.092
	1415	10	78	20	11	21	10	103	54			1560	5200	1040	0.176
	1416	12	90	24	13	24	11	123	62			2100	7000	1400	0.284
CAPTIVE TWISTED SHACKLES															
3	1422	5	37	10	6	11	5	50	27			480	1100	-	0.023
	1423	6	44	12	7	14	6	60	31			600	1500	-	0.039
	1424	8	59	16	9	18	8	80	42			1000	3000	-	0.090
	1425	10	74	20	11	21	9	99	53			1520	4500	-	0.170
CAPTIVE PIN BOW SHACKLES															
4	1441	4	18	8	5	9	4	28	20	13	21	320	1000	200	0.010
	1442	5	23	10	6	11	5	35	25	16	26	480	1500	300	0.019
	1443	6	27	12	7	14	6	43	31	19	31	660	2200	440	0.033
	1444	8	37	16	9	18	8	56	41	25	42	1110	3700	740	0.075
	1445	10	46	20	11	21	9	72	52	31	52	1560	5200	1040	0.139

1



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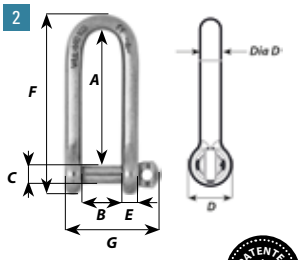

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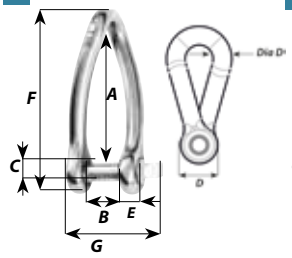

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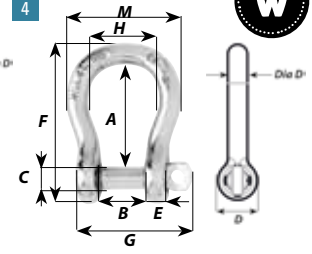
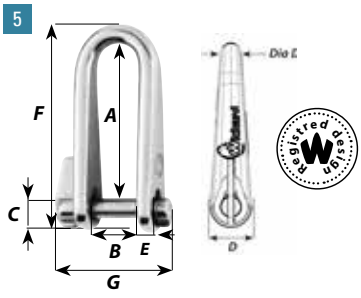


+ BENEFITS

- Self-locking pin cannot be dropped when opened
- No risk of losing the pin
- Wide range to meet all needs
- Forged in 316L stainless steel
- Designed and made in France

Key pin shackles

5



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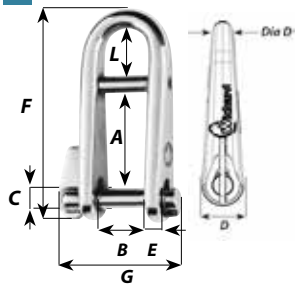


+ BENEFITS

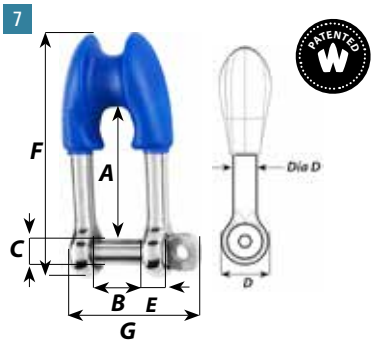
- Patented design
- Opening by half turn
- Easy to install with one hand
- Forged in 316L stainless steel
- Designed and made in France

N°	Part #	Dia d mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	W.L. Kg	B.L. Kg	Weight Kg
KEY PIN SHACKLES													
5	1432	5	37	13	5	11	4	49	31	-	400	1000	0.031
	1433	6	45	16	6	13	4	60	37	-	520	1500	0.048
	1434	8	59	21	8	17	6	79	49	-	800	2300	0.121
KEY PIN SHACKLES WITH BAR													
6	81432	5	37	13	5	11	4	49	31	12	400	1200	0.031
	81433	6	45	16	6	13	4	60	37	15	520	1700	0.052
	81434	8	59	21	8	17	6	79	49	20	800	2500	0.123

WL: working load - BL: breaking load

Thimble shackles

7



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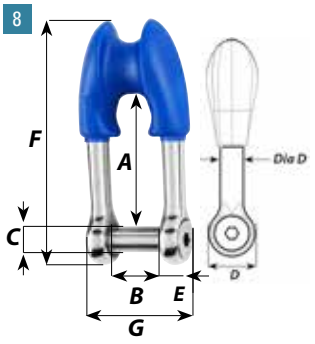


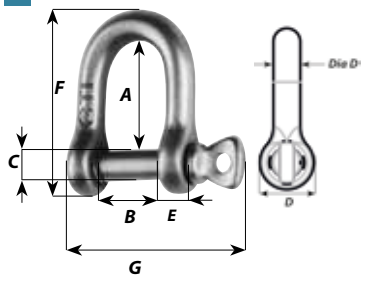
+ BENEFITS

- Forged in 316L stainless steel
- Allows splicing on head of shackle
- No additional stainless steel cringles
- Designed and made in France

N°	Part #	Dia d mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Ø rope max. mm	W.L. Kg	B.L. Kg	Weight Kg
THIMBLES SHACKLES WITH CAPTIVE PIN													
7	1494	8	41	16	8	16	7	76	42	12	1000	3000	0.078
	1495	10	51	20	10	20	9	95	54	16	1520	5000	0.146
THIMBLES SHACKLES WITH ALLEN HEAD PIN													
8	1394	8	41	16	8	16	7	76	33	12	1000	3000	0.076
	1395	10	51	20	10	20	8	96	41	16	1520	5000	0.142

Titanium shackles

1



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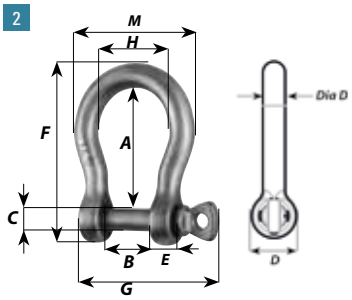


+ BENEFITS

- Forged in Titanium TA6V
- Important weight saving: 40%
- Available in D and bow models
- Designed and made in France

1 titanium shackle is up to 45% lighter than a standard 316L shackle.

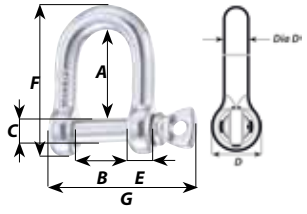
N°	Part #	Dia d mm	A mm	B mm	c mm	D mm	E mm	F mm	G mm	H mm	M mm	WL Kg	BL Kg	Weight Kg
TITANIUM SHACKLES														
1	51203	6	20	12	6	12	5	35	35	-	-	880	1700	0.014
	51204	8	26	16	8	16	7	47	46	-	-	1440	3000	0.034
TITANIUM BOW SHACKLES														
2	51245	10	47	20	10	20	9	72	58	32	52	2160	6000	0.082
	51246	12	55	27	12	24	10	86	68	38	63	2800	8000	0.136

HR shackles

+ BENEFITS

- Forged in HR (High resistance) stainless steel
- Outstanding working loads
- Available in D, long, bow and key pin models
- Designed and made in France

3



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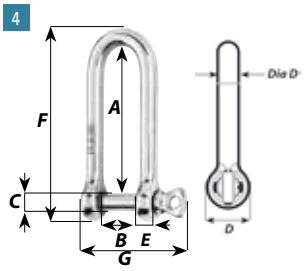

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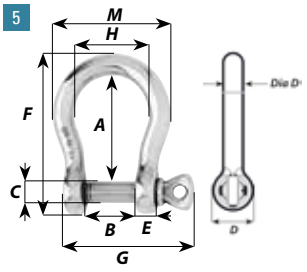

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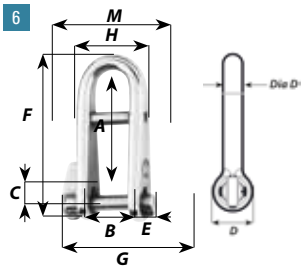


N°	Part #	Dia d mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	M mm	WL Kg	BL Kg	W.L.L Kg	Weight Kg
HR «D» SHACKLES															
3	11203	6	20	12	6	16	7	46	46	-	-	1040	2300	460	0.024
	11204	8	26	16	8	16	7	46	46	-	-	1760	4100	820	0.052
	11205	10	33	20	10	20	9	60	58			2640	6000	1200	0.102
	11206	12	42	27	12	24	13	72	68			3600	10000	2000	0.192
	11207	14	49	28	14	28	14	84	78			5120	12000	2400	0.304
	11208	16	56	32	16	32	16	96	87			6800	19000	3800	0.464
	11209	20	70	40	20	40	20	120	108			8800	28000	5600	0.860
HR LONG SHACKLES															
4	11215	10	78	20	10	20	9	80	58			2640	6000	1200	0.164
HR BOW SHACKLES															
5	11244	8	37	16	8	16	7	57	46	26	42	1760	4100	820	0.068
	11245	10	47	20	10	20	9	72	58	32	52	2640	6000	1200	0.136
	11246	12	55	24	12	24	10	86	68	38	63	3600	10000	2000	0.224
	11240	14	63	28	14	28	13	98	78	44	72	5120	12000	2400	0.364
	11247	16	70	32	16	32	15	113	87	50	83	6800	19000	3800	0.526
	11248	20	80	40	20	40	18	134	108	60	100	8800	28000	5600	1.011
	11249	24	108	48	24	47	20	168	131	70	118	12800	35000	7000	1.706

N°	Part #	Dia d mm	A mm	B mm	C mm	D mm	E mm	F mm	G mm	L mm	WL Kg	BL Kg	Weight Kg
HR KEY PIN SHACKLES WITH BAR													
6	91432	5	37	13	5	11	4	49	31	12	480	1500	0.031
	91433	6	45	16	6	13	4	60	37	15	600	2200	0.053
	91434	8	59	21	8	17	6	79	48	20	960	3500	0.123

Working Load (WL): for nautical applications.

Working Load Limit (WLL): for industrial applications only.
The safety factor is 5 times the breaking load.
WLL = Breaking load / 5

1 shackle forged in HR 17.4 Ph stainless steel can be up to 60% more resistant than a shackle in 316L stainless steel.

WL: working load - BL: breaking load

Softlink: soft shackle

The soft shackle for all!

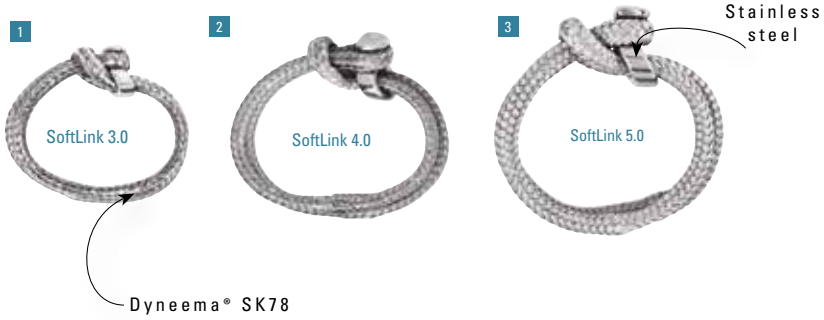
+ BENEFITS

- No knowledge of ropework required
- Replaces shackles and snap hooks
- Easy to fit and easy to open
- Remarkably light and strong
- Re-usable
- 3 sizes available
- Materials: stainless steel and Dyneema® SK 78

For the same strength, SoftLink is 4 or 5 times lighter than a 316L stainless steel shackle.

N°	Part #	W.L Kg	B.L. Kg	Ø loop mm	Loop Lenght mm	Weight Kg
SOFTLINK 3.0 - SOFT SHACKLE						
1	21223	1500	2000	3	70	0.012
SOFTLINK 4.0 - SOFT SHACKLE						
2	21224	2300	3000	4	80	0.023
SOFTLINK 5.0 - SOFT SHACKLE						
3	21225	3800	5000	5	90	0.047

Visit our Wichard Sailing You Tube channel and download the Softlink video



Accessories

N°	Part #	Description	Weight kg
KEY RINGS			
1	9304	Key ring with pin shackle # 1441	0.017
2	9305	Key ring with snap hook # 2480	0.029
3	9306	Key ring with snap shackle # 2470	0.029
4	9307	Key ring with block # 60019	0.019
2	9308	Key ring with snap hook # 2479	0.029

N°	Part #	Description	Weight kg
SHACKLER AND SPIKE TOOL			
5	10303	Forged shackler with bottle opener	0.033
6	10304	Unique shackler / spike tool	0.109

WL: working load - BL: breaking load

Maintenance

WICHINOX

Gel formula

Cleans and passivates stainless steel hardware

- Suitable for industrial applications
- Help reconstitute a passive protective film for stainless steel products
- Increases product longevity
- Easy to apply using a brush
- Use in the event of marked or deep-set corrosion (occasionnal use)
- Part #: 9605
- Volume: 250 ml

Blocks

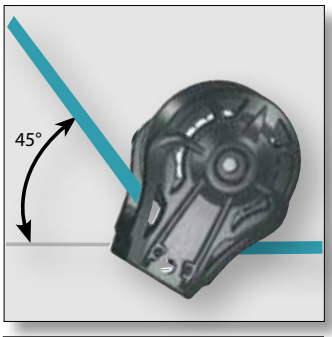
Our blocks, wholly designed and manufactured in our factories, feature high-performance materials and are subjected to rigorous manufacturing and quality assurance processes. For whatever type of block, ball bearing, plain bearing, the shape of the sheave suits all modern ropes. They are also very easy to install due to the various types of fastening options.

Wichard offers a complete range of blocks:

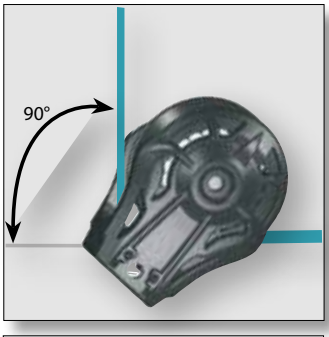
- Rings
- Ball bearing and plain bearing blocks
- Snatch blocks
- Stainless steel blocks
- Deck accessories
- Roller blocks

Selection guide – blocks

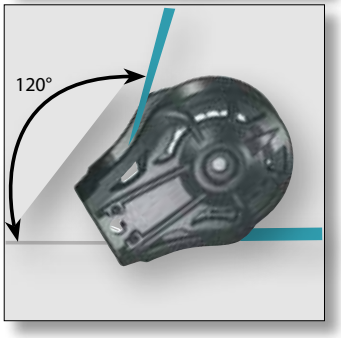
	Plain bearing blocks	Ball bearing blocks	Roller blocks	FRX: Rings	MXEvo: Block	MXLEvo: Soft block
						
LOAD TYPES						
Dynamic operation and light load						
Static operation and heavy load						
Dynamic operation and heavy load						
EXAMPLES OF USE						
Mainsail sheet		√	√			
Mainsail travelers		√	√			
Spinnaker sheets		√	√			
Mastfoot block	√			√	√	√
Masthead block	√					
Boom vang	√				√	√
Downhaul	√				√	
Backstay	√		√	√		
Mainsail foot	√				√	√
Reefing point	√				√	
Cunningham	√				√	
Barberhauler		√		√		√
Inhauler				√		√
Spinnaker tack point		√	√	√		√



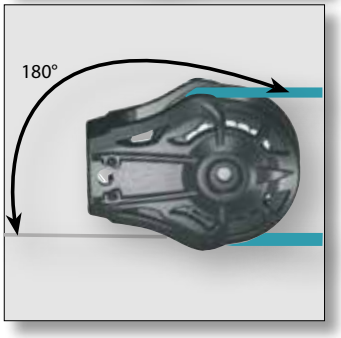
For a 45° angle: The load factor will be 75%. A load of 100 Kg on the line will represent a load of 75 Kg on the block



For a 90° angle: The load factor will be 140%. A load of 100 Kg on the line will represent a load of 140 Kg on the block.



For a 120° angle: The load factor will be 180%. A load of 100 Kg on the line will represent a load of 180 Kg on the block.



For a 180° angle: The load factor will be 200%. A load of 100 Kg on the line will represent a load of 200 Kg on the block.

Deflection angle	Load factor
180°	200 %
160°	197%
140°	187 %
120°	180%
100°	153 %
90°	140%
80°	129 %
60°	100%
45°	75 %
20°	35%
0°	0%

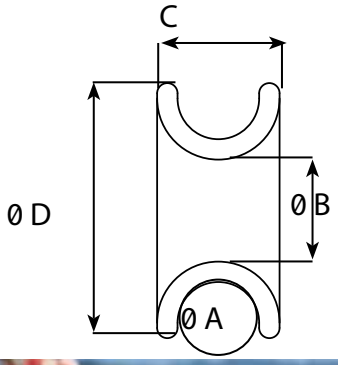
Friction blocks

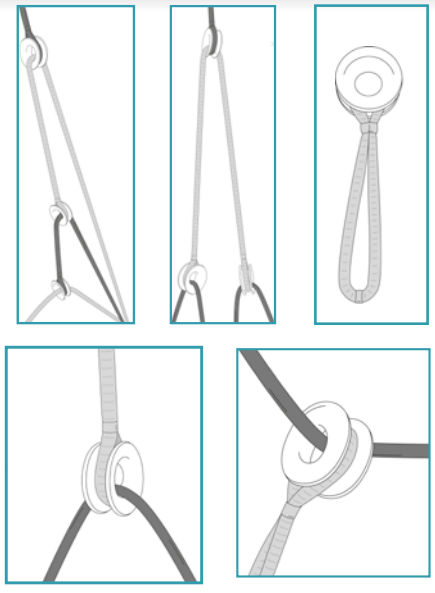
FRX : RINGS

+ BENEFITS

- 6 sizes available
- Very strong
- Very light
- Various applications: mast-foot block, inhauler, barber-hauler and more.
- Suitable for all types of rope (Dyneema®, etc.)
- Materials: hard anodized aluminium for greater lifespan

N°	Part Black	ØA mm	ØB mm	C mm	Ø D mm	W.L Kg	Weight Kg	Material
FRX6								
1	20705	5.5	7	9	18	400	0.002	Aluminium
FRX10								
2	21008	8	10	12	25	800	0.005	Aluminium
FRX15								
3	21510	10	15	15	35	1600	0.012	Aluminium
FRX20								
4	22014	14	20	21	47	3200	0.031	Aluminium
FRX25								
5	22517	17	25	25	60	5000	0.057	Aluminium
FRX40								
6	24027	27	40	40	90	8000	0.213	Aluminium





Applications

Mast-foot block, barber-hauler, inhauler, loop, thimble, lazy jack, running backstay, tackle, and more.

Friction blocks

MXLEvo : The universal soft block solution

The MXLEvo is a soft block solution designed for all yachtsmen, whether amateur or pro. Designed for heavy load applications (mast foot, halyard tackle, barber hauler, snatch blocks, etc.), this system is available in three sizes.

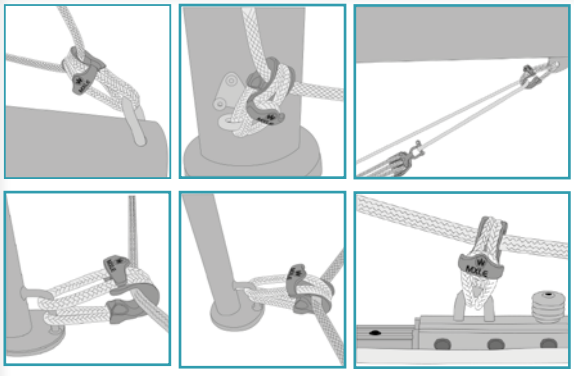
Fig	Part #	Height mm	Width mm	Thick mm	Loop length mm	nominal Ø loop mm	W.L. Kg	B.L. Kg	Weight Kg
MXLEVO 10 - FOR MAX ROPE SIZE 10 MM									
1	21104	30	40	26	170	4	800	2000	0.040
MXLEVO 12 - FOR MAX ROPE SIZE 12 MM									
1	21105	40	54	35	220	5	1600	3800	0.090
MXLEVO 16 - FOR MAX ROPE SIZE 16 MM									
1	21106	47	60	41	270	6	2500	5000	0.140

+ BENEFITS

- Economical and easy to use
- Designed for heavy load applications
- Lightweight, robust and highly compact
- A reliable solution and maintenance free
- Adaptable to your deck plan and anchor orientation: 2 fastening methods
- High quality materials: Duplex grade stainless steel -Dyneema® SK78
- Available in 3 sizes

MXLEvo provides exceptional resistance for its weight. In comparison with a standard competitor's block,
The MXLEvo 10 is:
> twice as robust
> half the weight
> a third of the size

> For a breaking load of 5 tonnes, the MXLEvo 16 is 35% lighter.



Heavy load applications:

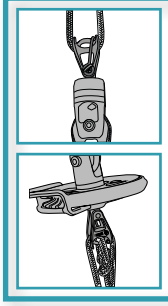
- Mast foot block,
- Halyard tackle,
- Barber hauler,
- Block and tackle,
- Sheet return,
- Large sail foot, etc..

Friction blocks

MXEvo : Blocks

+ BENEFITS

- 2 VERSIONS AVAILABLE:
  - Captive pin version: 3 models
  - Allen head pin version: 3 models
- Perfect for taking on the heavy loads of flying sail furler terminals and 2:1 purchase mainsail halyards, mastfoot deflection
- Becket feature for purchase
- Outstanding working and breaking loads
- Optimised dimensions and weight
- Easy to install and use
- Reliable and maintenance free
- Helps to prevent excessive rope wear



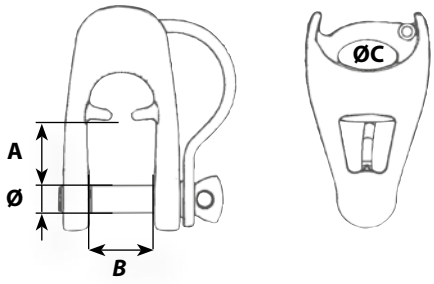
MXEvo: captive pin version

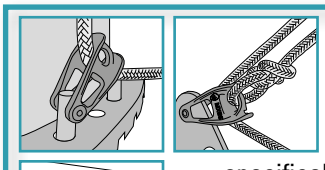
This version is used for static lines:

- Flying sail furler terminal
- 2:1 mainsail halyard

MXEvo: Captive pin version

N°	Part # Captive pin version	Length mm	Width mm	Ø mm	A mm	B mm	Ø C mm	W.L. Kg	B.L. Kg	Weight Kg
MXEVO DIA 6 MM: CAPTIVE PIN - FOR MAX ROPE SIZE 8 MM										
1	11603	53	26	6	18	13	7	1040	2300	0,053
MXEVO DIA 8 MM: CAPTIVE PIN - FOR MAX ROPE SIZE 10 MM										
2	11604	62	36	8	18	18	9	1760	4100	0,109
MXEVO DIA 10 MM: CAPTIVE PIN - FOR MAX ROPE SIZE 14 MM										
3	11605	77	44	10	22	22	11	2640	6000	0,222





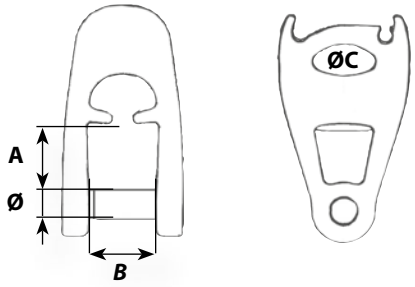
MXEvo: allen head pin version

This version of the MXEvo has been specifically designed for Mast-foot fairleads,

- Running backstays
- All other applications that are not handled frequently.

MXEvo: Allen head pin version

N°	Part # Allen head pin version	Length mm	Width mm	Ø mm	A mm	B mm	Ø C mm	W.L. Kg	B.L. Kg	Weight Kg
MXEVO DIA 6 MM: ALLEN HEAD PIN - FOR MAX ROPE SIZE 8 MM										
1	11613	53	26	6	18	13	7	720	1700	0,048
MXEVO DIA 8 MM: ALLEN HEAD PIN - FOR MAX ROPE SIZE 10 MM										
2	11614	62	36	8	18	18	9	1300	3500	0,100
MXEVO DIA 10 MM: ALLEN HEAD PIN - FOR MAX ROPE SIZE 14 MM										
3	11615	77	44	10	22	22	11	1760	5000	0,204



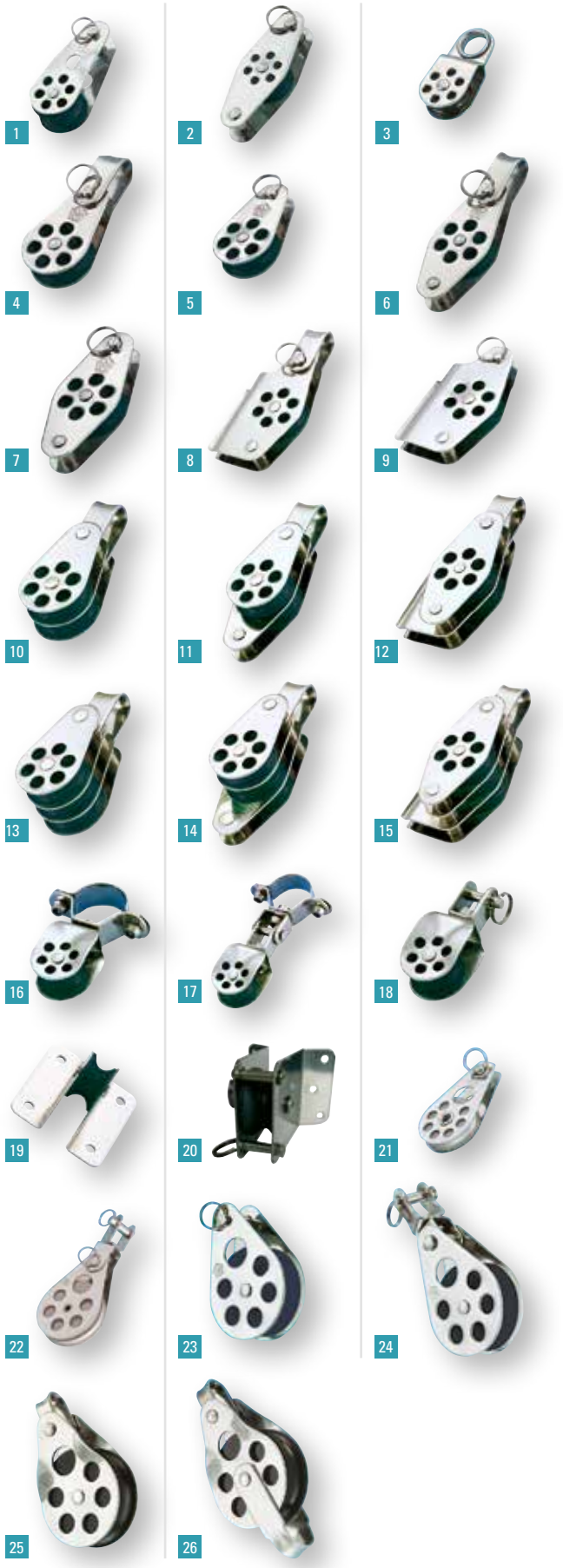
Stainless steel blocks

+ BENEFITS

- Large range covering all applications
- Lightness, reliability and good performance
- Wide choice of fastenings
- Perfect for dinghies and cruising yachts

N°	Part #	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SHEAVE DIA 18 MM - ROPE SIZE 6 TO 8 MM								
1	30018	Single block	45	21	11	200	500	0.016
2	30118	Single with becket	57	31	11	200	500	0.022
SHEAVE DIA 19 MM - ROPE SIZE 6 MM								
3	30019	Single with eye	38	19	8	200	500	0.012
SHEAVE DIA 24 MM - ROPE SIZE 4 TO 6 MM								
4	30024	Single with shackle	56	25	15	200	500	0.021
5	31124	Single block	42	25	15	200	500	0.014
6	30124	Single with becket and shackle	70	25	15	200	500	0.026
7	31224	Single with becket	56	25	15	200	500	0.014
8	30224	Single with V cleat, becket and shackle	70	33	15	200	500	0.034
9	30324	Single with V cleat and becket	56	33	15	200	500	0.028
10	30424	Double with shackle	56	25	19	200	500	0.030
11	30524	Double with becket and shackle	70	25	19	200	500	0.037
12	30624	Double with V cleat, becket and shackle	70	33	19	200	500	0.047
13	30724	Triple with shackle	56	25	27	200	500	0.040
14	30824	Triple with becket and shackle	70	25	27	200	500	0.060
15	30924	Triple with V cleat, becket and shackle	70	33	27	200	500	0.060
SHEAVE DIA 25 MM - ROPE SIZE 8 TO 10MM								
16	30025	For 25 mm stanchion	65	53	21	280	400	0.049
17	30125	For 25 mm stanchion, pivoting	95	53	21	280	400	0.070
18	30425	Swivel with clevis	59	25	21	200	300	0.036
SWIVEL SHACKLE BLOCKS								
19	30225	Flat 25 mm dia sheave	50	50	32	240	600	0.036
	30325	Curved 25 mm dia sheave	50	50	40	240	600	0.036
20	30136	Removable 36 mm dia sheave	36	65	58	800	2000	0.168
WIRE BLOCK WITH ALUMINIUM SHEAVE								
21	31024	24 mm dia sheave, for 3 mm wire	42	25	11	140	350	0.019
	30036	36 mm dia sheave, for 4 mm wire	66	39	11	200	500	0.050
	30050	50 mm dia sheave, for 5 mm wire	75	50	12	320	800	0.084
	30070	70 mm dia sheave, for 7 mm wire	105	70	17	1200	2500	0.222
22	30071	70 mm dia sheave, for 7 mm wire	150	70	17	1200	1790	0.298
SHEAVE DIA 45 MM - ROPE SIZE 10 MM								
Mast step blocks sheave dia 45 mm								
23	30045	Single with clevis pin	75	50	24	560	1000	0.076
24	30145	Swivel with clevis	105	50	24	560	1000	0.104
Land-yacht blocks (curved) sheave dia 50 mm								
25	31045	Single	85	50	24	320	800	0.104
26	31145	Single with becket	108	50	24	320	800	0.106

WL: working load - BL: breaking load



Blocks
plain bearing and ball bearing

SHEAVE DIA 12, 18, 25

SHEAVE DIA 12 (stainless steel sheave)

mini block - rope size 4 mm

N°	Part plain bear.	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
1	60600	Fixed eye	33	16	11	120	300	0.011

SHEAVE DIA 18

rope size 4 to 6 mm

N°	Part plain bear.	Part ball bear.	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCKS									
3	60113	70113	Fixed eye	35	18	14	240	500	0.011
4	60114	70114	Fixed eye with becket	45	18	14	240	500	0.015
6	60120	70120	Cheek block	36	18	14	240	500	0.010
DOUBLE BLOCKS									
8	60213	70213	Fixed eye	45	18	28	320	700	0.041
9	60214	70214	Fixed eye with becket	55	18	28	320	700	0.044
TRIPLE BLOCKS									
10	60313	70313	Fixed eye	45	18	42	480	900	0.055
11	60314	70314	Fixed eye with becket	55	18	42	480	900	0.057

SHEAVE DIA 25

rope size 6 to 8 mm

N°	Part plain bear.	Part ball bear.	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCKS									
2	61105	71105	Swivel head	64	25	18	200	500	0.027
3	61113	71113	Fixed eye	49	25	18	320	600	0.019
4	61114	71114	Fixed eye with becket	62	25	18	320	600	0.024
5	61353	71353	Opposite in line	75	25	18	320	600	0.037
6	61120	71120	Cheek block	52	25	18	320	600	0.021
7	61121	71121	Upright lead block	39	32	42	320	600	0.032
DOUBLE BLOCKS									
8	61213	71213	Fixed eye	64	25	34	400	800	0.059
9	61214	71214	Fixed eye with becket	78	25	34	400	800	0.062
TRIPLE BLOCKS									
10	61313	71313	Fixed eye	60	25	51	480	1000	0.081
11	61314	71314	Fixed eye with becket	74	25	51	480	1000	0.087

WL: working load - BL: breaking load

Blocks
plain bearing and ball bearing

SHEAVE DIA 35

+ BENEFITS

- Large range
- Universal head allows wide choice of fastenings
- High resistance under high loads
- Modern design
- Sheave protected by cheeks
- Load bearing stainless steel shaft
- Adjustable cam cleats
- For following rope diameters: 8, 9, 10, 12 and 14 mm

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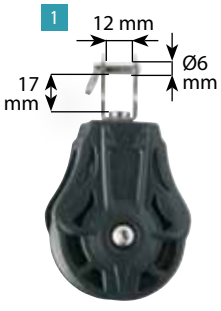

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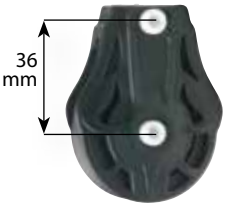
7 Sheave 35



7 Sheave 45

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SHEAVE DIA 35

rope size 8 to 9 mm, forged shackle 5 mm

N°	Part plain bear.	Part ball bear.	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCKS									
1	62105	72105	Swivel head	84	37	23	320	900	0.071
2	62106	72106	Swivel head with becket	101	37	23	320	900	0.079
3	62108	72108	Swivel head with becket and cam	101	64	45	200	900	0.118
5	62117	72117	Fixed head with clevis	72	37	23	320	500	0.055
6	62113	72113	Fixed eye	65	37	23	320	900	0.051
7	62120	72120	Cheek block, bolts 6 mm dia	52	37	20	320	900	0.044
10	62121	72121	Upright block	42	46	40	320	900	0.053
11	62122	-	Reefing block	60	58	40	320	900	0.103
8	62131	72131	Swivel snap hook	102	37	23	200	400	0.076
DOUBLE BLOCKS									
12	62205	72205	Swivel head	84	37	40	480	900	0.119
13	62206	72206	Swivel head with becket	101	37	40	480	900	0.128
TRIPLE BLOCKS									
15	62305	72305	Swivel head	84	37	58	560	1000	0.149
16	62306	72306	Swivel head with becket	101	37	58	560	1000	0.157
17	62308	72308	Swivel head with becket and cam	101	66	60	200	1000	0.208
FIDDLE BLOCKS									
18	62405	72405	Swivel head	107	37	23	320	900	0.086
20	62408	72408	Swivel head with becket and cam	124	64	45	200	900	0.138

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11 Sheave 35

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WL: working load - BL: breaking load

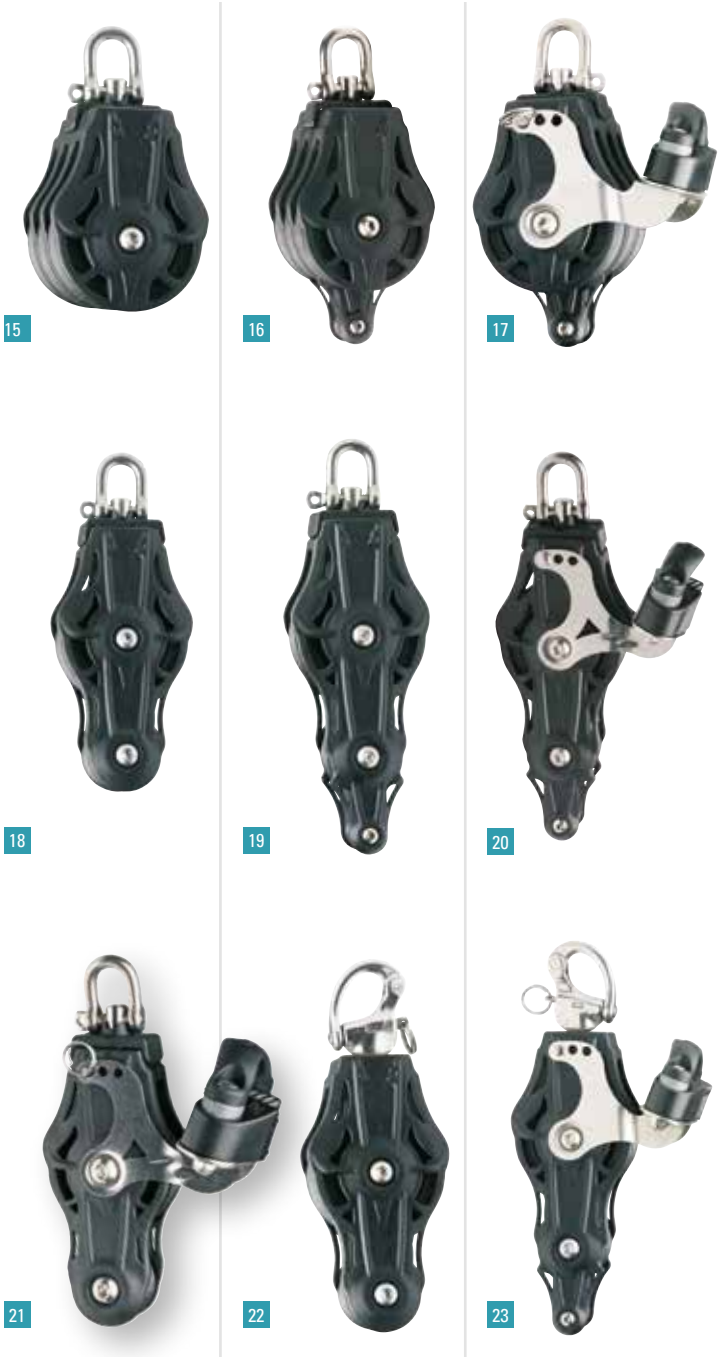
Blocks
plain bearing and ball bearing

SHEAVE DIA 45

SHEAVE DIA 45

rope size 10 mm, forged shackle 5 mm

N°	Part plain bear.	Part ball bear.	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCKS									
1	63105	73105	Swivel head	97	49	26	400	900	0.105
2	63106	73106	Swivel head with becket	117	49	26	400	900	0.120
3	63108	73108	Swivel head with becket and cam	117	86	61	280	900	0.211
4	63109	-	Swivel with clevis	98	49	26	400	700	0.101
4	63117	73117	Fixed head with clevis	87	49	26	400	700	0.089
5	63113	73113	Fixed eye	78	49	26	400	900	0.083
8	63118	73118	Webbing D ring	93	49	26	400	900	0.108
6	63120	73120	Cheek block, bolts 6 mm dia	65	49	23	400	900	0.073
DOUBLE BLOCKs									
12	63205	73205	Swivel head	97	49	46	480	1000	0.184
13	63206	73206	Swivel head with becket	117	49	46	480	1000	0.199
14	63207	73207	Swivel snap shackle	110	49	46	480	1000	0,208
TRIPLE BLOCKS									
15	63305	73305	Swivel head	97	49	67	560	1000	0.243
16	63306	73306	Swivel head with becket	117	49	67	560	1000	0.257
17	63308	73308	Swivel head with becket and cam	117	87	72	360	1000	0.357
FIDDLE BLOCKS									
18	63405	73405	Swivel head	130	49	26	560	1000	0.147
19	63406	73406	Swivel head with becket	150	49	26	560	1000	0.156
21	63407	73407	Swivel head with cam	130	86	61	360	1000	0.240
20	63408	73408	Swivel head with becket and cam	150	86	61	360	1000	0.249
22	63435	73435	Swivel snap shackle	143	49	26	560	1000	0.171
23	63438	73438	Swivelling snap shackle with becket and cam	163	86	61	360	1000	0.273



WL: working load - BL: breaking load

Blocks
plain bearing and ball bearing

SHEAVE 55 AND 70

+ BENEFITS

- Large range
- Universal head allows wide choice of fastenings
- High resistance under high loads
- Modern design
- Sheave protected by cheeks
- Load bearing stainless steel shaft
- Adjustable cam cleats
- For following rope diameters: 8, 9, 10, 12 and 14 mm

SHEAVE DIA 55

rope size 12 mm, forged shackle 6 mm

N°	Part plain bear.	Part ball bear.	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCKS									
1	64105	74105	Swivel head	119	63	29	720	1500	0.179
2	64106	74106	Swivel head with becket	144	63	29	720	1500	0.200
3	64108	74108	Swivel head with becket and cam	144	95	61	480	1500	0.302
8	64109	74109	Swivel with clevis	113	63	29	640	1000	0.159
9	64110	74110	Swivel with clevis and becket	138	63	29	640	1000	0.185
4	64117	74117	Fixed head with clevis	107	63	29	720	1200	0.157
5	64113	74113	Fixed eye	98	63	29	720	1500	0.138
6	64118	74118	Webbing D ring	110	63	29	720	1500	0.166
7	64130	74130	Swivelling snap shackle	126	63	29	720	1500	0.184
10	64120	74120	Cheek block, bolts 6 mm dia	81	63	26	720	1500	0.123
DOUBLE BLOCKS									
11	64205	74205	Swivel head	119	63	52	800	1500	0.315
12	64206	74206	Swivel head with becket	144	63	52	800	1500	0.337
TRIPLE BLOCKS									
13	64305	74305	Swivel head	119	63	75	880	1500	0.410
14	64306	74306	Swivel head with becket	144	63	75	880	1500	0.429
15	64308	74308	Swivel head with becket and cam	144	97	81	480	1500	0.550
FIDDLE BLOCKS									
16	64405	74405	Swivel head	160	63	29	800	1500	0.247
17	64406	74406	Swivel head with becket	186	63	29	800	1500	0.270
18	64408	74408	Swivel head with becket and cam	186	95	61	480	1500	0.374
19	64435	74435	Swivelling snap shackle	167	63	29	800	1500	0.253
20	64438	74438	Swivelling snap shackle with becket and cam	193	95	61	480	1500	0.380

WL: working load - BL: breaking load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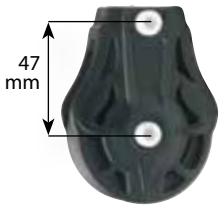
8 Sheave 55

8 Sheave 70

9 Sheave 55



10 Sheave 55

10 Sheave 70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SHEAVE DIA 70

rope size 14 mm, forged shackle 8 mm

N°	Part plain bear.	Part ball bear.	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCKS									
1	65105	75105	Swivel head	153	80	39	1200	2700	0.367
2	65106	75106	Swivel head with becket	183	80	39	1200	2700	0.416
3	65108	75108	Swivel head with becket and cam	183	120	80	480	2700	0.599
8	65109	75109	Swivel with clevis	137	80	39	800	1500	0.357
4	65117	75117	Fixed head with clevis	132	80	39	1200	2000	0.320
7	65130	75130	Swivelling snap shackle	162	80	39	1200	2700	0.395
10	65120	75120	Cheek block, bolts 8 mm dia	103	80	34	1200	2700	0.294
DOUBLE BLOCKS									
11	65205	75205	Swivel head	153	80	68	1440	2700	0.653
12	65206	75206	Swivel head with becket	183	80	68	1440	2700	0.714
TRIPLE BLOCKS									
13	65305	75305	Swivel head	153	80	97	1600	2700	0.895
14	65306	75306	Swivel head with becket	183	80	97	1600	2700	0.941
15	65308	75308	Swivel head with becket and cam	183	123	101	480	2700	1.139
FIDDLE BLOCKS									
16	65405	75405	Swivel head	204	80	39	1440	2700	0.518
17	65406	75406	Swivel head with becket	236	80	39	1440	2700	0.570
18	65408	75408	Swivel head with becket and cam	236	120	80	480	2700	0.748
19	65435	75435	Swivelling snap shackle	213	80	39	1440	2700	0.570
20	65438	75438	Swivelling snap shackle with becket and cam	245	120	80	480	2700	0.790

WL: working load - BL: breaking load

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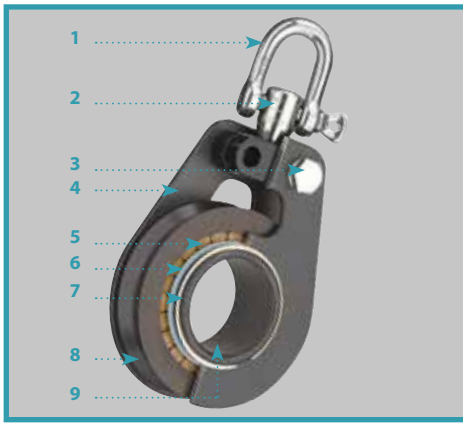
Roller Blocks*

SHEAVE 30, 40, 50

Roller blocks

Wichard roller bearing blocks are designed to be simple, reliable and long-lasting. They are ideal for dynamic running rigging that is subject to heavy loads (mainsail tackle, mastfoot block, etc.).

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N°	Part #	Description	Height mm	Width mm	Thick mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCKS: SHEAVE 30 FOR ROPE SIZE 6 TO 10 MM - SHACKLE 4 MM								
1	90105	Swivel head	63	31	20	144	700	0,048
2	90106	Swivel head with becket	80	31	20	144	700	0,054
SINGLE BLOCKS: SHEAVE 40 FOR ROPE SIZE 8 TO 10 MM - SHACKLE 5 MM								
1	93105	Swivel head	80	42	27	320	900	0,104
2	93106	Swivel head with becket	96	42	27	320	900	0,100
4	93120	Cheeks block - bolts M5	67	42	25	320	900	0,106
DOUBLE BLOCK: SHEAVE 40 FOR ROPE SIZE 8 TO 10 MM - SHACKLE 5 MM								
5	93205	Swivel head	80	42	47	320	1000	0,128
SINGLE BLOCKS: SHEAVE 50 FOR ROPE SIZE 8 TO 10 MM - SHACKLE 6 MM								
1	94105	Swivel head	93	52	28	480	1500	0,138
2	94106	Swivel head with becket	113	52	28	480	1500	0,124
3	94108	Swivel head with becket and cam	113	102	60	480	1500	0,248
4	94120	Cheeks block - bolts M5	78	52	25	480	1500	0,152
DOUBLE BLOCKS: SHEAVE 50 FOR ROPE SIZE 8 TO 10 MM - SHACKLE 6 MM								
5	94205	Swivel head	93	52	48	640	1600	0,210
6	94206	Swivel head with becket	113	52	48	640	1600	0,226
TRIPLE BLOCKS: SHEAVE 50 FOR ROPE SIZE 8 TO 10 MM - SHACKLE 6 MM								
7	94305	Swivel head	93	52	68	640	1600	0,284
8	94306	Swivel head with becket	113	52	68	640	1600	0,292
9	94307	Swivel head and cam	93	102	60	480	1600	0,380
10	94308	Swivel head with becket and cam	113	102	60	480	1600	0,392
FIDDLE BLOCKS: SHEAVE 50 FOR ROPE SIZE 8 TO 10 MM - SHACKLE 6 MM								
11	94405	Swivel head	130	52	28	480	1500	0,174
12	94406	Swivel head with becket	150	52	28	480	1500	0,182
13	94407	Swivel head and cam	130	102	60	480	1500	0,278
14	94408	Swivel head with becket and cam	150	102	60	480	1500	0,284

*SPECIFIC PARTS: AVAILABILITY UPON REQUEST

Roller Blocks*

SHEAVE 65, 80

COMPONENTS: ROLLER BEARING BLOCKS

1. Forged stainless-steel shackle (HR s-steel for HR models).
2. Stainless-steel swivel head
3. 316L stainless-steel bolt
4. Aluminium cheeks (hard coat anodization)
5. Delrin® roller bearings (Torlon® for HR models).
6. Centring bush for lateral loads
7. Stainless-steel circlip
8. Hard anodized aluminium sheave (+ Teflon for HR models).
9. Hard anodized aluminium hollow pin (+ Teflon for HR models).

N°	Part #	Description	Height mm	Width mm	Thick.. mm	W.L. Kg	B.L Kg	Weight Kg
SINGLE BLOCKS - SHEAVE 65 FOR ROPE SIZE 8 TO 12 MM - SHACKLE 8 MM								
1	95105	Swivel head	112	68	30	600	1800	0,218
2	95106	Swivel head with becket	134	68	30	600	1800	0,232
3	95108	Swivel head with becket and cam	134	118	60	480	1800	0,338
4	95120	Cheeks block - bolts M5	94	68	26	600	1800	0,200
DOUBLE BLOCKS - SHEAVE 65 FOR ROPE SIZE 8 TO 12 MM - SHACKLE 8 MM								
5	95205	Swivel head	112	68	50	720	1800	0,278
6	95206	Swivel head with becket	134	68	50	720	1800	0,282
7	95220	Cheeks block - bolts M5	94	68	48	520	1800	0,314
TRIPLE BLOCKS - SHEAVE 65 FOR ROPE SIZE 8 TO 12 MM - SHACKLE 8 MM								
8	95305	Swivel head	112	68	70	720	1800	0,418
9	95306	Swivel head with becket	134	68	70	720	1800	0,422
10	95307	Swivel head and cam	112	118	60	480	1800	0,514
11	95308	Swivel head with becket and cam	134	118	60	480	1800	0,534
FIDDLE BLOCKS - SHEAVE 65 FOR ROPE SIZE 8 TO 12 MM - SHACKLE 8 MM								
12	95405	Swivel head	158	68	30	600	1800	0,268
13	95406	Swivel head with becket	180	68	30	600	1800	0,280
14	95310	Swivel head triple sheave	158	68	70	600	1800	0,466
15	95407	Swivel head and cam	158	118	60	480	1800	0,374
16	95408	Swivel head with becket and cam	180	118	60	480	1800	0,382
SINGLE BLOCKS - SHEAVE 80 FOR ROPE SIZE 8 TO 12 MM - SHACKLE 8 MM								
1	96105	Swivel head	128	83	27	1000	2050	0,280
2	96106	Swivel head with becket	154	83	27	1000	2050	0,294
4	96120	Cheeks block - bolts M5	110	83	25	1000	2050	0,268
DOUBLE BLOCKS - SHEAVE 80 FOR ROPE SIZE 8 TO 12 MM - SHACKLE 8 MM								
5	96205	Swivel head	128	83	47	720	2050	0,374
7	96220	Cheeks block - bolts M5	110	83	44	800	2050	0,430

* SPECIFIC PARTS: AVAILABILITY UPON REQUEST

HR Roller Blocks*

SHEAVE 65, 80, 100, 125, 160, 200, 240

N°	Part #	Description	Ø shackle mm	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCKS: ALUMINIUM SHEAVE 65 - ROPE SIZE 8 TO 12 MM									
1	41105	Swivel head	6	106	67	31	1000	2700	0,198
2	41106	Swivel head with becket	8	132	67	31	1000	2700	0,280
DOUBLE BLOCK: ALUMINIUM SHEAVE 65 - ROPE SIZE 8 TO 12 MM									
4	41205	Swivel head	10	125	67	54	1000	2700	0,478
SINGLE BLOCKS: ALUMINIUM SHEAVE 80 - ROPE SIZE 12 TO 14 MM									
1	42105	Swivel head	8	133	83	35	1600	4000	0,396
2	42106	Swivel head with becket	10	165	83	35	1600	4000	0,484
3	42120	Cheek block - bolts M5	-	112	83	33	1600	4000	0,488
DOUBLE BLOCKS: ALUMINIUM SHEAVE 80 - ROPE SIZE 12 TO 14 MM									
4	42205	Swivel head	12	155	83	57	1600	4000	0,868
5	42220	Cheek block - bolts M8	-	112	83	55	1600	4000	0,728
SINGLE BLOCKS: ALUMINIUM SHEAVE 100 - ROPE SIZE 16TO 18 MM									
1	43105	Swivel head	10	165	104	39	2000	5000	0,692
2	43106	Swivel head with becket	12	200	104	39	2000	5000	0,904
3	43120	Cheek block - bolts M10	-	142	104	36	2000	5000	0,900
DOUBLE BLOCKS: ALUMINIUM SHEAVE 100 - ROPE SIZE 16 TO 18 MM									
4	43205	Swivel head	14	195	104	68	2000	5000	1,648
5	43220	Cheek block - bolts M10	-	142	104	65	2000	5000	1,386
SINGLE BLOCKS: ALUMINIUM SHEAVE 125 - ROPE SIZE 18 TO 20 MM									
1	44105	Swivel head	12	204	130	45	4000	9500	1,314
2	44106	Swivel head with becket	14	250	130	45	4000	9500	1,514
3	44120	Cheek block - bolts M12	-	177	130	42	4000	9500	1,464
DOUBLE BLOCK: ALUMINIUM SHEAVE 125 - ROPE SIZE 18 TO 20 MM									
5	44220	Cheek block - bolts M12	-	177	130	73	4000	9500	2,240
SINGLE BLOCKS: ALUMINIUM SHEAVE 160 - ROPE SIZE 20 TO 24 MM									
1	45105	Swivel head	14	255	165	51	5000	11000	2.768
2	45106	Swivel head with becket	16	315	165	51	5000	11000	2.940
3	45120	Cheek block - bolts M16	-	223	165	49	5000	11000	2.962
DOUBLE BLOCK: ALUMINIUM SHEAVE 160 - ROPE SIZE 20 TO 24 MM									
5	45220	Cheek block - bolts M16	-	223	165	84	5000	11000	4.516
SINGLE BLOCKS: ALUMINIUM SHEAVE 200 - ROPE SIZE 24 TO 26 MM									
1	46105	Swivel head	20	325	209	61	8000	20000	4.804
2	46106	Swivel head with becket	20	410	209	61	8000	20000	5.026
3	46120	Cheek block - bolts M16	-	280	209	58	8000	20000	4.722
DOUBLE BLOCK: ALUMINIUM SHEAVE 200 - ROPE SIZE 24 TO 26 MM									
5	46220	Cheek block - bolts M16	-	280	209	99	8000	20000	7.752
SINGLE BLOCKS: ALUMINIUM SHEAVE 240 - ROPE SIZE 26 TO 30 MM									
1	47105	Swivel head	24	380	245	69	12000	28000	7.320
3	47120	Cheek block - bolts M20	-	325	240	65	12000	28000	6.994
DOUBLE BLOCK: ALUMINIUM SHEAVE 240 - ROPE SIZE 26 TO 30 MM									
5	47220	Cheek block - bolts M20	-	325	240	130	12000	28000	10.950

1

2

3

4

5

*SPECIFIC PARTS: AVAILABILITY UPON REQUEST

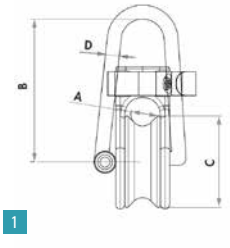
Soft snatch blocks

- 6 models available from 2T to 15T
- Various applications on board
- High resistance and ligthness
- Easy and fast installation thanks to Dyneema® loop
- Fast and safe opening / closing with the Velcro® strap
- Modern design
- Sheave protection by the cheeks
- Material: anodised aluminium (cheeks & sheave), Dyneema® loop, stainless steel dogbone

APPLICATIONS :

- Flying sail furler terminals (2:1 gennaker halyard)
- Main sail (2:1)
- Barber-hauler
- Sheets
- ...

N°	Part #	Description	A : Rope dia mm	B mm	C : sheave dia mm	Loop dia mm	W.L. Kg	B.L. Kg	Weight Kg
SOFT SNATCH BLOCK									
1	36010	For 10 mm rope	8	59	41	5	2000	4000	0.099
	36020	For 12 mm rope	10	64	46	6	3000	6000	0.141
	36030	For 16 mm rope	14	79	55	8	4500	9000	0.249
	36040	For 20 mm rope	18	90	70	10	7000	14000	0.461
	36050	For 24 mm rope	22	110	88	15	9000	18000	0.897
	36060	For 32 mm rope	30	na	123	18	15000	30000	1.990



1

Snatch blocks
with snap shackle

Fitted to a pad eye or toe rail Wichard snatch blocks are highly useful for taking up a rope that is already reeved. The elastomer moulded cheeks make them shock and scratch-resistant. Each one is fitted with a snap shackle which allows them to move freely in any position. With its forged high-resistance stainless steel arm, the closing system is very strong. It can be opened very easily by pulling on the central plunger pin, as you would do with a normal snap shackle.

2

N°	Part #	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SNATCH BLOCKS								
1	34500	Max. 12 mm diam. rope	145	59	43	720	1300	0.254
1	35500	Max. 18 mm diam. rope	155	59	49	1200	2500	0.414

Stainless steel snatch block

This stainless steel snatch block can be used for any application. The design makes its positioning easier. The all stainless steel construction is a guarantee of safety and reliability.

STAINLESS STEEL SNATCH BLOCK

rope size 6 mm

N°	Part #	Description	Height mm	Width mm	Thick. mm	W.L. Kg	B.L. Kg	Weight Kg
SINGLE BLOCK								
2	31031	Max rope size 6 mm	127	50	17.5	200	300	0.124

3

WL: working load - BL: breaking load

Deck accessories

N°	Part #	Description	Weight Kg
SWIVEL BASE			
1	30101	Mainsheet swivel base - ball bearing- rope size 12 mm	0.308
2	30103	Swivel cleat base - rope size 12 mm	0.160
3	30105	Swivel cleat base - rope size 12 mm	0.178

N°	Part #	For rope Ø / mm	Fastener spacing mm	Weight Kg
Cam cleats				
4	30006	8	26	0.017
	30012	12	38	0.044
	30016	16	52	0.068

N°	Part #	Description	Weight Kg
STAND UP SPRINGS			
5	32530	Stand up spring without collar for sheaves dia 18 & 25 mm	
	32540	Stand up spring with collar for sheaves dia 35 & 45 mm	
	32550	Stand up spring with collar for sheaves dia 55 & 70 mm	

N°	Part #	Description	For blocks	Clevis Ø mm	Ø Pin mm	Weight Kg
CLEVIS ADAPTOR						
6	32570	Swivel, clevis adaptor	Sheave 35&45	8	5	0.024
	32571	Swivel, clevis adaptor	Sheave 55	10	6	0.023

N°	Part #	Description	Weight Kg
MAST STEP ADAPTOR			
7	32580	Mast step adpator for Part # 63117 & 73117 - Ø drilling: 5.2 mm	0.034
	32581	Mast step adaptor for Part # 64117 & 74117 - Ø drilling: 8.2 mm	0.042

N°	Part #	Height mm	Fastener spacing mm	For rope Ø mm	Weight Kg
SADDLES STAINLESS STEEL					
8	30026	11	26	8	0.003
	30038	15	38	12	0.010
	30052	21	52	16	0.016
SADDLES POM					
9	30126	14,5	26	8	0.002
	30138	19	38	12	0.007
	30152	22,5	52	16	0.009

N°	Part #	Description	Ø Sheave mm	Thickness mm	Ø Pin mm	Ø rope mm
PLAIN BEARING SHEAVES						
10	60081	Sheave	18	8,5	6	4
	60082	Sheave	25	10.5	6	6
	60083	Sheave	35	11,5	10	8
	60084	Sheave	45	13	10	10
	60085	Sheave	55	15	10	12
	60086	Sheave	70	19	14	14
	60087	Sheave	80	22	17	18
SHEAVES WITH CAPTIVE BALLS						
11	80085	Captive balls	55	15	10	12
	80086	Captive balls	70	19	14	14
	80088	Captive balls	32	15	10	10
	80089	Captive balls	42	19	14	18

For sport boats or dinghies, swivel bases enable the boat's fittings to be optimised. They are manufactured according to Wichard tradition of quality, and form part of the original equipment on many modern designs. Their dimensions and the adjustable orientation of the cam cleats, mean they can be installed on your boat without any modifications.

N°	Part #	Sheaves	Ø Sheave mm	Ø Rope mm	Length mm	Width mm	Tickness mm	Fastener mm	Ø Pin mm	Weight Kg
DECK ORGANIZERS: BALL BEARINGS SHEAVES (STACKED)										
12	81512	2	32	4 to 12	95	35	22	43	6	0.070
13	81513	3	32	4 to 12	140	35	22	43	6	0.106
14	81514	4	32	4 to 12	180	35	22	43	6	0.140
12	81522	2	42	8 to 16	125	45	28	57	8	0.156
13	81523	3	42	8 to 16	185	45	28	57	8	0.231
14	81524	4	42	8 to 16	240	45	28	57	8	0.305

WL: working load - BL: breaking load

Safety

Tethers, Gyb'Easy the Wichard boom brake, Lyf'safe, the jacklines kit

Wichard designs cutting-edge technology products whose main function is to provide enhanced safety.

They are robust, easy to use and will bring you satisfaction.

Boom brake

Gyb'Easy

Gybing remains one of the most challenging operations on a sailing boat even for experienced sailors and can possibly generate injuries and material damage.
An efficient and safe solution: Gyb'Easy the Wichard boom brake.

Concept

Thanks to the frictions of the specific line passing over the boom break, the boom is allowed to gybe smoothly. With Gyb'Easy, the gybe operations are safer, potential accidents reduced and without jerks.

Settings of Gyb'Easy

The adjusment of Gyb'Easy is made thanks to the tension of the specialized line. 3 different positions exist for a perfect adaptation to the mainsail and wind conditions (see pictures).

The more the line passes over the openings, the more the friction is increased and hence the brake efficiency.

Setting 1

Setting 2

Setting 3

An easy installation on all kinds of boats

The installation only takes a few minutes: a shackle is attached onto one of the boom eye straps. In order to fit with all deck configurations, two different fittings can be implemented.The boom brake can be installed either on modern boats or old gaffers.

Features:

- Can be used on mainsail areas below 40 sqm.
- Material: aluminium with anodisation.
- Weight: 0.600 kg.
- Part #: 7150 (delivered with rope and shackle). Part # 1244
- Rope available in two lengths 16 und 25 m

Visit our Wichard Sailing You Tube channel and download the Gyb'Easy video

Jacklines

Lyf'Safe

The Wichard jackline

Universal, Ready-to-use, Reflective

Either sailing solo or fully crewed, operating on the foredeck in most conditions require extra attention and safety precautions. Lyf'Safe by Wichard is a complete jackline kit allowing safer operations and offering added value to the crew.

Adaptable and universal

Lyf'Safe can be tailored to the length of the boat (using the adjuster) and can be fitted on to most deck fastenings (padeyes, pulpit/pushpit, cleats).

Ready-to-use

Easy to install, Lyf'Safe does not require additional fastening components such as shackles.

Reflective

Thanks to its reflective stripe and photoluminescent casing, Lyf'Safe can be easily identified when sailing at night.

Locking system of the webbing

The adjuster casing prevents any accidental adjustment or release of the webbing.

Resistant and anti-chaffing

The anti-abrasion edges to the webbing prevent early wear and fraying, the soft elastomer casing isolates the deck, eliminating noise and vibrations.

Aesthetic

Lyf'Safe is an elegant solution suiting most modern deck designs.

4 models available :

— Part # 7051 : length 8,5m.
— Part # 7052 : length 11m.
— Part # 7053 : length 14m.
— Part # 7054 : length 16m.

Components of Lyf'Safe :

— 2 reflective webbings.
— 2 forged adjusters.
— 2 photoluminescent casings.
— 1 set containing 8 screws.
— 1 installation manual.

Spare parts available

Visit our Wichard Sailing
You Tube channel and download
the Lyf'Safe video

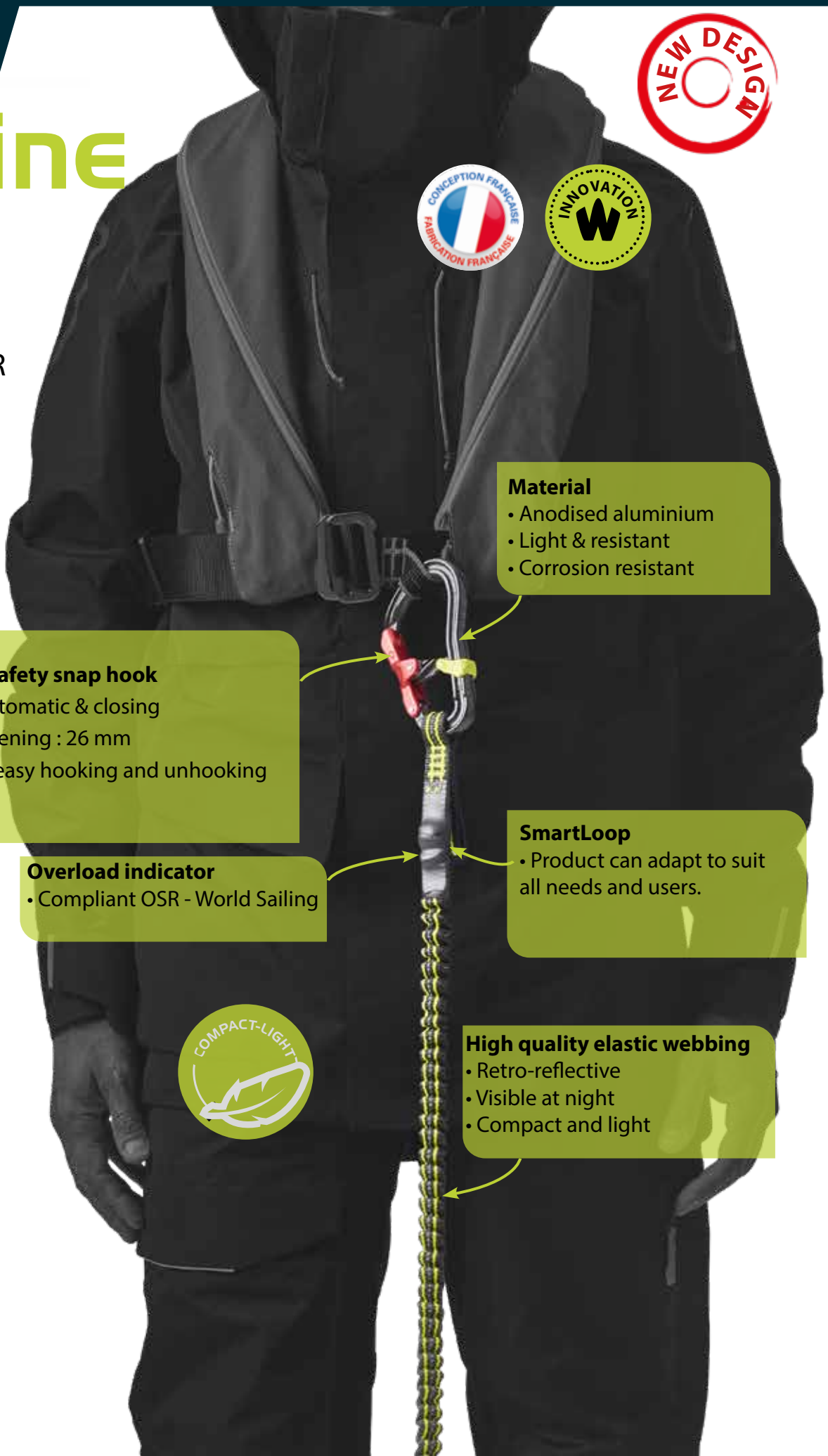
ProLine

PPE: TETHERS

- 6 models
- ISO 12401:2009
- World Sailing / OSR

SNAP HOOK

- EN 362:2004



Material
- Anodised aluminium
- Light & resistant
- Corrosion resistant

Double safety snap hook
- NEW: automatic & closing
- Wide opening : 26 mm
- V-nose: easy hooking and unhooking

Overload indicator
- Compliant OSR - World Sailing

SmartLoop
- Product can adapt to suit all needs and users.

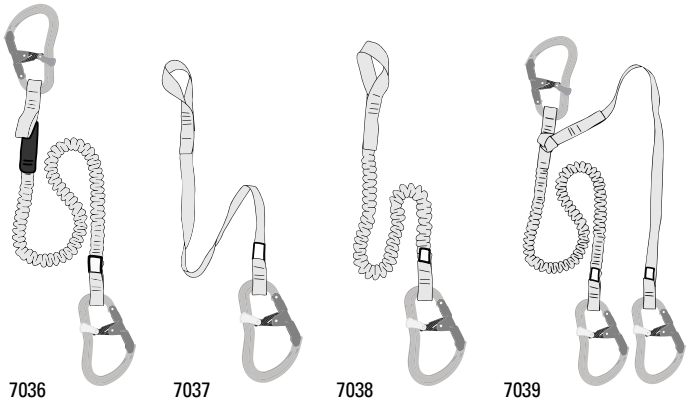
High quality elastic webbing
- Retro-reflective
- Visible at night
- Compact and light

ProLine

Part #	Description	Length Max	Weight Kg
7036	2 ProSnap snap hooks Elastic webbing incl. overload indicator	2 m	0.330
7037	1 ProSnap hook Flat webbing incl. overload indicator	0.80 m	0.160
7038	1 ProSnap hook Elastic webbing incl. overload indicator	1.40 m	0.190
7039	3 ProSnap snap hooks Elastic + flat webbing incl. overload indicator	2 m + 1 m	0.490

+ BENEFITS

- 4 models available
- Compliance with ISO 12401:2009 and WORLD SAILING regulations (OSR)
- Overload indicator with shock absorber on all models

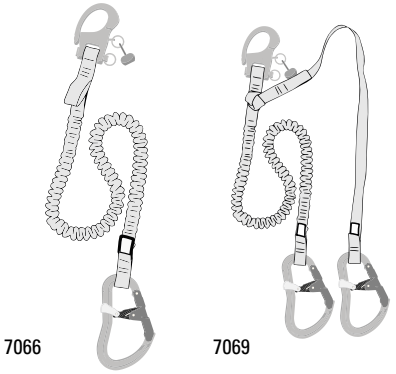


ProLine'R

Part #	Description	Length Max	Weight Kg
7066	1 ProSnap snap hook + 1 quick opening snap hook part # 2299 - elastic webbing with overload indicator	2 m	0.330
7069	2 ProSnap snap hooks + 1 quick opening snap shackle part # 2299 - elastic webbing + flat webbing - with overload indicator	2 m + 1 m	0.500

+ BENEFITS

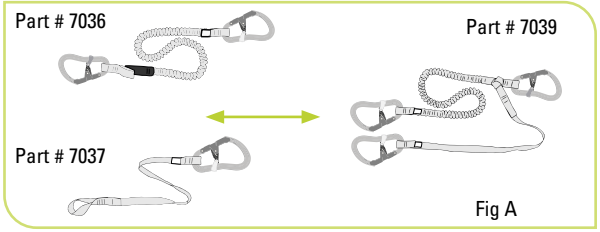
- 2 models available
- Snap shackle on the harness can be released
- Overload indicator (OSR-WORLD SAILING) with in-built shock absorber
- CE marking

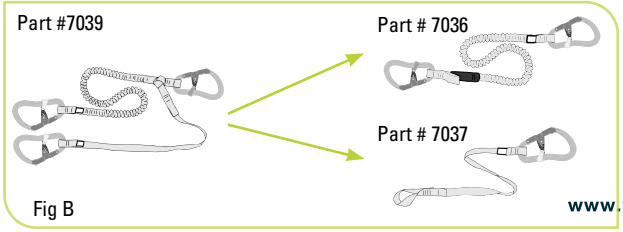


Exclusive feature: SmartLoop

Product can adapt to suit all needs and users.
SmartLoop lets you:

- turn a single webbing tether into a double webbing tether (see fig. A)
- turn a double webbing tether into two single webbing tethers (see fig. B)





PPE : TETHERS

+ BENEFITS

- Large range of tethers
- Compliant with ISO 12401:2009
- Available with double action safety hooks (phosphorescent) or carabiner hooks
- Available with flat or elastic tethers
- Ensures safety during movements on deck
- Designed and made in France


1


2


3


4

N°	Part #	Description	Weight kg
TETHER WITH DOUBLE ACTION SAFETY HOOKS			
1	7005	Elastic harness tether from 1 to 2 m, with double action safety hooks.	0.398
2	7006	Elastic harness tether - 1 m fixed line, the other retracts from 2 to 1 m with three double action safety hooks.	0.582
3	7016	Harness tether, flat webbing (25mm), 2 meter long with one action safety hook.	0.210
TETHERS WITH STAINLESS STEEL CARBINE HOOKS			
4	7001	Elastic harness tether from 1 to 2 m, with two stainless steel carbine hooks.	0.418

+ BENEFITS

- Fitted with a quick opening snap shackle on the harness side
- With an overload indicator
- 2 models available
- Designed and made in France


6


7

N°	Part #	Description	Weight kg
TETHERS RELEASABLE UNDER LOAD			
6	7007	Elastic harness tether. Retracts from 2 to 1 meter, with overload indicator, one double action safety hook and one quick opening snap shackle.	0.348
7	7008	Elastic tether, 1 meter fixed line, the other retracts from 2 to 1 meter, with overload indicator, two double action safety hooks and one quick opening snap shackle.	0.480

PROTECTING THE ENVIRONMENT

At Wichard, we don't simply pay lip service to environmental protection.

When manufacturing our knives, we do everything practical to contribute to protecting nature on a daily basis:

— Manufacturing our knives locally and nationally.

— Sourcing materials nationally or in Europe.

— Reducing components.

— The use of recyclable materials (for example paper from sustainably managed forests).

— Building awareness among our suppliers of the need to preserve the environment and verifying that suitable measures are being taken.

Knives

The Wichard spirit

Ever since it was founded in 1919, Wichard has produced its knives in Thiers, the traditional home of knife-making in France.

As manufacturers specialising in marine hardware, we have designed our new knife ranges to provide you with Wichard's proven strength and reliability in all circumstances during your nautical activities.

A Wichard knife is a must-have tool offering outstanding cutting performance as well as being easy to use, safe and long-lasting.

Usage

All Offshore and Aquaterra knives are fitted with a locking blade.

The shackle opener - marlinspike on the Offshore model can also be locked in the open position for improved comfort during use.

— To unlock the blade, simply press the back of the knife.

— On the Offshore models, the cut-out section on the blade allows you to open the blade one-handed. Do not use this cut-out for unshackling.

Maintenance & storage

Here are a few handy tips to ensure optimal operation and a long life for your Wichard knife:

— Wipe your knife after each use or rinse it in clear water.

— Never put your knife in the dishwasher.

— Allow it to dry with the blade open to facilitate the evaporation of water.

— After several rinses, you can apply 3 in 1 oil to the mechanism.

OFFSHORE

SAILING KNIFE STAYS SHARP IN ALL CONDITIONS

Designed for sailing and for highly demanding skippers, the «Offshore» knife offers a range of essential functions on-board a boat: Cutting quality, night visibility, locking blade, one-handed opening, corrosion resistance, mechanical resistance...

Its serrated blade enables you to easily cut all types of modern ropes including Dyneema®. The shackle opener - marlinspike version is also a vital tool on-board a sailing boat. Each Offshore knife is equipped with an adjustable wrist strap to avoid losing your knife when using it.

Blade shackle key - spike
Part # 10122 / 10126 / 10129

3 colors available

Single serrated blade version
Part # 10112 / 10116 / 10119

Serrated blade

Remarkable cutting power

Stainless steel blade (MA5) for an outstanding corrosion resistance

Single hand opening

High resistance handle
Extreme temperatures:
-76°F +148°FC

Glows in the dark (depending on model)

Soft grip

Safety locking blade

Fastening point for wrist loop

Range Part #	Single blade	Blade-shackle key - spike
	OFFSHORE	
Part # color fluorescent	10112	10122
Part # color blue	10116	10126
Part # color orange	10119	10129
	✓	✓
	✓	✓
	✓	✓
	✓	✓
	✓	✓
	✗	(Ø12 mm - 15/32)
	✗	✓
	✗	✓
	7 11/16 / 4 17/32 - 195 mm / 115 mm	
	3 5/32 / 1 25/32 - 80 mm / 45 mm	
	★★★★½	★★★★½
	★★★★½	★★★★½
	Part # 10112	Part # 10122
Stainless steel grade	MA5	MA5
	66 g / 2.32 oz	85 gr / 2.99 oz

OFFSHORE RESCUE

CUTTING POWER & CORROSION RESISTANCE

Specifically developed for rescue operations and extreme sports (offshore racing, sport catamaran, white water sport, etc.). Careful material selection (N680 stainless steel grade) brings high corrosion resistance, outstanding cutting power and high robustness.

RESCUE KNIFE - FIXED BLADE

OFFSHORE RESCUE	Fluorescent serrated blade	Red serrated blade	Black Plain blade
Part #	10192	10194	10195
	✓	✓	✗
	✓		
	✓		
	✓		
	(Ø12 mm - 15/32)		
	✓ 190 mm / 7 31/64		
	72 mm / 2 53/64		
	★★★★★		
	★★★★★		
	✓	✗	
Stainless steel grade	MA5		
	119g / 4.20 oz		

The secured sheath enables the knife to be positioned in all situations. The sheath offers many fastening points : personally on the sailor (lifejacket, arm, leg), on various locations (cockpit, steering wheel, mast foot, trampoline, catamaran cross beams).

RESCUE LINE CUTTER

The line cutter enables the cutting of small diameter lines (Dyneema lines, nets, webbings, kite lines i.e..). Thanks to a specific surface treatment, the line cutter is specially hardened (70 HRC) for better and longer cutting poower.

The secured sheath enables the knife to be positioned in all situations. The sheath offers many fastening points : personally on the sailor (lifejacket, arm, leg), on various locations (cockpit, steering wheel, mast foot, trampoline, catamaran cross beams).

OFFSHORE RESCUE	
Part #	10193
	40 mm / 1 37/64
	✓
	✓
	✓
	(Ø12 mm - 15/32)
	★★★★★
	★★★★★
	✓
Stainless steel grade	High hardness
	80g / 2.82 oz

AQUATERRA

YOUR SPORT KNIFE FOR ALL CONDITIONS

The AquaTerra knife is THE must-have knife for practising outdoor aquatic sports such as fishing, motor boating, kayaking or pleasure boating.

Equipped with a stainless steel blade it offers excellent cutting quality and optimal corrosion resistance. Several versions available: smooth blade or smooth blade and corkscrew. This will quickly become an essential tool for all of your sporting activities.

Single half-serrated blade model
Part # 10143 / 10144 / 10146

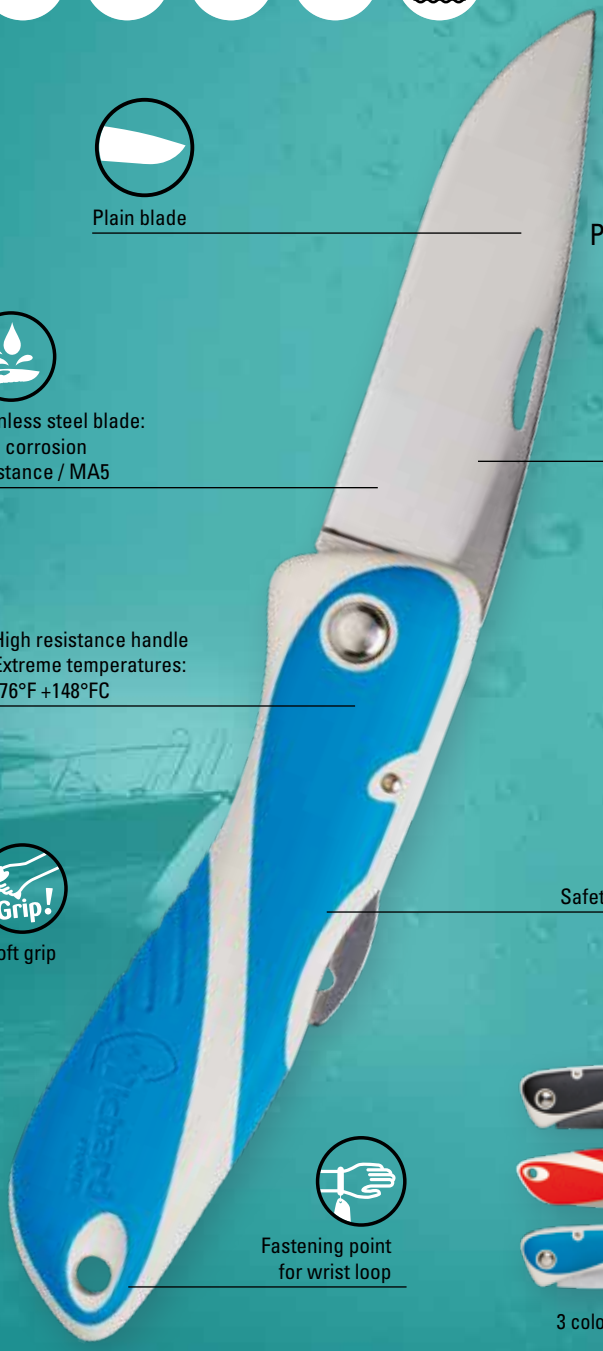
Plain blade with corkscrew model
Part # 10153 / 10154 10156

Plain blade

Single plain blade model
Part # 10133 / 10134 / 1036

Stainless steel blade: high corrosion resistance / MA5

Remarkable cutting power



High resistance handle
Extreme temperatures:
-76°F +148°FC

Safety locking blade

Soft grip

Fastening point for wrist loop

3 colors available

Range Part #	AQUATERRA Single plain blade	Plain blade with corkscrew
Part # color black	10133	10153
Part # color red	10134	10154
Part # color blue	10136	10156
	✓	✓
	✗	✗
	✓	✓
	✓	✓
	✗	✓
	195 mm / 115 mm - 7 19/32 / 4 17/32	
	80 mm - 3 5/32	
	★★★½☆	★★★½☆
	★★★★☆	★★★★☆
Stainless steel grade	MA8	MA5
	60 g - 2.11 oz	68 g - 2.39 oz

AQUATERRA BIO-SOURCED KNIVES

Handle nature with care

Description	N°	Part	Color	Weight
Smooth stainless steel blade: MA5 Handle: resin made from castor oil + powdered oyster shell. Locking blade. Blade thickness: 2 mm Blade length: 80 mm Total length open/closed: 193 mm / 115 mm	1	10130	Sandy brown	0.063 kg
	2	10131	Green	

Based on castor oil resin & oyster shell powder

AQUATERRA FISHING KNIVES

Light and compact

Description	N°	Part #	Color.	Weight
Smooth blade - stainless steel MA5- Single han opening - Safety locking blade - Corkscrew - Handle with grip Blade thickness : 2mm Blade length : 80mm Total length unfolded / folded : 193mm / 115mm Handle : PA & PU	5	10163	Black/ Grey	0.075 kg
	6	10165	Green/ Grey	

CLASSIC KNIVES

Long knife with leather sheath			
1	Part # 10006	Fluorescent Length 20 cm, blade 10 cm	0.094 kg
1	Part # 10007	Fluorescent Length 24 cm, blade 13 cm	0.164 kg
Floating knife, fixed blade with sheath			
2	Part # 10009	Length 19 cm, blade 7 cmwith sheath	0.096 kg
Strap cutter			
3	Part # 20501	Double stainless steel blade - aluminium handle	0.112 kg

AQUATERRA KNIVES

Wooden-handled knives

Description	N°	Part	Model	Weight
Smooth stainless steel blade: modified 420 HC. Carbon fiber & aramid tangs and handle made from olive wood. Locking blade. Blade thickness: 3 mm Blade length: 80 mm Total length: open/closed: 193 mm / 115 mm	3	Part # 10180	Single blade	0.084 kg
	4	Part # 10181	Single blade / Corks	0.094 kg

KNIFE SHEATHS

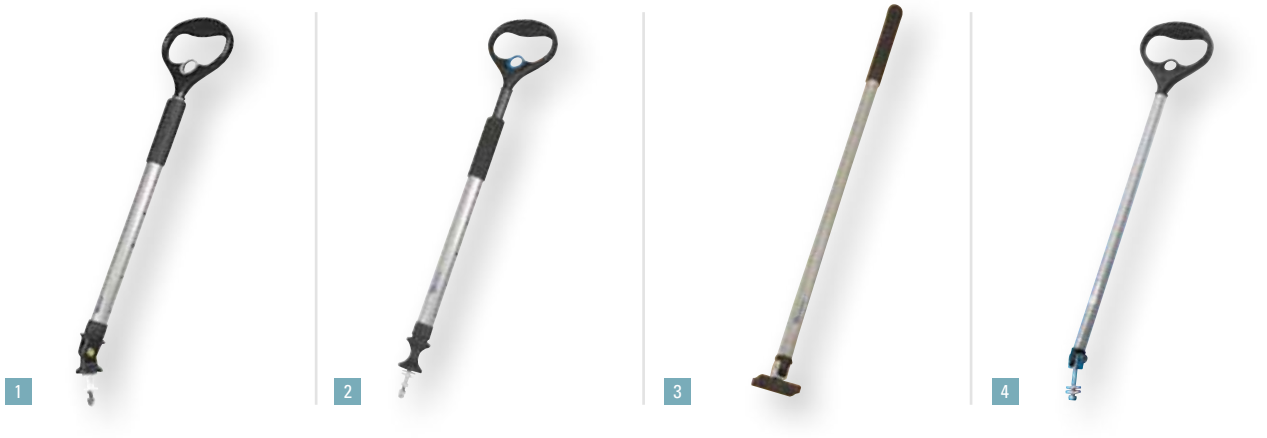
N°	Part#	Description	Weight
1	10026	Real leather sheath - For use with Offshore and Aqua-terra knives - Snap fastener - Horizontal and vertical carrying - Sea water resistant sheath - colour: black	0,024 kg
2	10027	Real leather sheath - For use with Offshore and Aqua-terra knives - Snap fastener - Horizontal and vertical carrying - Sea water resistant sheath - colour: brown	0,024 kg
3	10022	Cordura® sheath - For use with Offshore and Aqua-terra knives - Velcro® strap - Horizontal and vertical carrying - Colour: black	0.022 kg
4	10028	Sheath for Offshore Rescue knife (part.#10192) Many fastening points - Glows in the dark	0.030 kg
5	10029	Sheath for Offshore Rescue Line cutter (part.#10193) - Many fastening points - Colour : black	0.020 kg

Sailing accessories

Tiller extensions, accessories

Wichard designs products which aim at easing the operations and the life on board. They will quickly become essential tools.

Tiller extensions



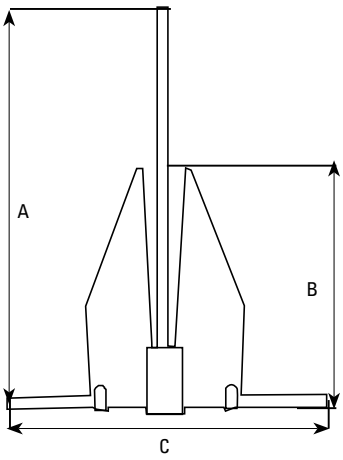
+ BENEFITS

- Large range of tiller extensions
- With or without handle, telescopic or fixed models
- Telescopic models with ball-locking system
- Different joint systems available
- Ergonomic non-slip handles

N°	Part #	Description	Weight kg
TELESCOPIC TILLER EXTENSIONS			
1	7550	Adjustable from 70 to 100 cm	0.682
1	7551	Adjustable from 80 to 120 cm	0.716
2	7555	Adjustable from 70 to 100 cm, stand up rubber articulation	0.708
2	7556	Adjustable from 80 to 120 cm, stand up rubber articulation	0.798
TILLER EXTENSIONS			
3	7510	Length 70 cm - universal ball joint	0.310
3	7520	Length 95 cm - universal ball joint	0.406
TILLER EXTENSIONS WITH HANDLE			
4	7540	Non retractable - length 58 cm	0.378
4	7541	Non retractable - length 70 cm	0.406
RETAINING CLIPS			
5	7500	Retaining clips for parts # 7510, 7520, 7540, 7541 (tube dia. 20 mm)	0.015
6	7501	Retaining clips for parts # 7550, 7551, 7555, 7556 (tube dia. 30 mm)	0.012
SPARE ARTICULATIONS			
7	7504	Spare articulation for parts # 7540, 7541	0,076
8	7505	Spare articulation for parts # 7555	0.146
8	7506	Spare articulation for parts # 7556	0.162
9	7507	Spare articulation for parts # 7550, 7551	0.168
10	7502	Spare articulation for parts # 7510, 7520	0.080

FORTRESS ANCHORS

Wichard offers the range of Fortress anchors for boats from 8 to 21m. The main benefits are: Outstanding holding power, light weight, adjustable fluke angles, easy dismantling and easy handling by any crew member.



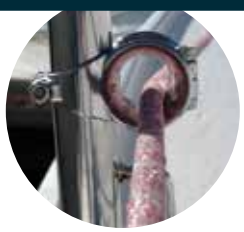
Boat Length m	-8	from 8 to 10	from 10 to 12	from 12 to 14	from 14 to 15,5m	from 15,5 to 18	from 18 to 21	21
Fortress models	FX7	FX11	FX16	FX23	FX37	FX55	FX85	FX125
Working load Kg	315	400	560	900	1350	1800	2350	3040
Weight Kg	2,5	2,9	4,3	6,6	10	15	21	30
Shank length mm (A)	610	686	787	914	1016	1168	1295	1422
Fluke length mm (B)	356	406	457	533	610	686	762	838
Stock length mm (C)	483	559	635	737	813	940	1041	1143
Shackle dia mm	6	6	8	10	12	12	16	16

Supplementary products

Snap hooks Plastic

N°	Part #	Description		
SNAP HOOKS - PLASTIC - POM				
1	MQ00372	Snap hook - size 1 - L: 37 mm -	Breaking load: 40 Kg	0.002 kg
2	MQ00502	Snap hook - size 1 - L: 50 mm -	Breaking load: 30 Kg	0.003 kg
3	MQ00752	Snap hook - size 1 - L: 75 mm -	Breaking load: 50 Kg	0.010 kg
4	MQ1002	Snap hook - size 1 - L: 100 mm -	Breaking load: 70 Kg	0.031 kg
5	MD00642	Snap hook - size 1 - L: 64 mm -	Breaking load: 20 Kg	0.003 kg

Fairleads



Wichard offers now a complete range of fairleads dedicated to the deviation of furling lines such as ropes for manual-headsail or flying-sail furlers..

N°	Part #	Description	Weight kg
1	20120	Stainless steel single fairlead - For 25mm stanchion Maximum line diameter : 20mm	0.080
2	21020	Stainless steel deck fairlead – M10 screw Maximum line diameter : 18 mm	0.108
3	20220	Stainless steel double fairlead with Velcro stripe for continuous line. For 25mm stanchion maximum - Maximum line diameter : 20 mm	0.180
3	21220	Stainless steel double fairlead with Velcro stripe for continuous line. For 28mm stanchion maximum - Maximum line diameter : 20 mm	0.225
4	21120	Stainless steel articulated fairlead - For 25 & 28mm stanchion maximum - Maximum line diameter : 20 mm	0.110
5	20320	Deck fairlead - Fitting with 2 M5 screws Max rope size : 18 mm - Duplex stainless steel grade	0.063

1

2

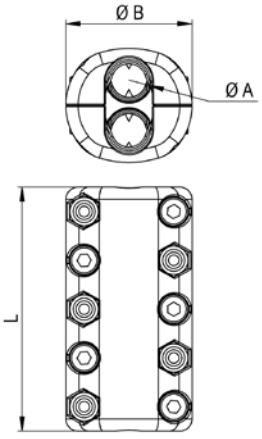
3

4

5

Anti-torque cable clamps

Part #	Cable size mm	A mm	B mm	L mm	Weight kg
7321	9	8.5	29	56	0.169
7322	11	10	31	60	0.198
7323	13	12	35	62	0.243
7324	15	15	40	100	0.525



+ BENEFITS

- For anti-torque cables : dia 9, 11, 13 and 15 mm
- Can be used for gennaker with Marlow ProDrive +
- Can be used for asymmetric spinnakers with most of the anti-torque cables available on the market
- Material : Duplex stainless steel grade

QUICK LINKS

peguet.fr

STANDARD

Part #	Size mm	L.T.	L.I.	A	O	E	T	Weight g	WLL kg	BL kg
25N	2,5	26,0	21,0	7,0	3,5	8,0	3,5	3	100	500
30N	3,0	31,0	25,0	8,5	4,0	9,0	4,0	5	160	800
35N	3,5	36,0	29,0	10,0	5,0	11,0	5,0	8	220	1100
40N	4,0	39,5	31,5	11,5	5,5	12,5	6,0	12	280	1400
50N	5,0	49,5	39,5	13,0	6,5	16,0	7,0	21	450	2250
60N	6,0	57,0	45,0	14,5	7,5	19,0	9,0	35	650	3250
70N	7,0	66,0	52,0	16,0	8,5	21,5	10,0	52	900	4500
70N EN	7,0	66,0	52,0	16,0	8,5	21,5	10,0	52	-	45 kN
80N	8,0	74,0	58,0	17,5	11,0	24,0	11,0	79	1100	5500
80N EN	8,0	74,0	58,0	17,5	11,0	24,0	11,0	79	-	55 kN
90N	9,0	80,0	62,0	19,0	11,0	26,0	12,0	105	1400	7000
100N	10,0	89,0	69,0	20,5	12,0	29,0	13,0	141	1800	9000
100N EN	10,0	89,0	69,0	20,5	12,0	29,0	13,0	141	-	90 kN
120N	12,0	104,5	80,5	23,5	15,0	33,0	15,0	238	2500	12500
140N	14,0	121,0	93,0	26,5	17,0	38,5	17,0	374	3500	17500
160N	16,0	140,0	108,0	29,5	19,0	45,0	19,0	576	4500	22500

LARGE OPENING

Part #	Size mm	L.T.	L.I.	A	O	E	T	Weight g	WLL kg	BL kg
25GO	2,5	33,0	28,0	7,0	7,0	12,0	3,5	4	90	450
30GO	3,0	39,5	33,5	8,5	8,5	13,5	4,0	7	145	725
35GO	3,5	46,0	39,0	10,0	10,0	16,0	5,0	11	200	1000
40GO	4,0	53,0	45,0	11,5	11,5	19,0	6,0	15	250	1250
50GO	5,0	62,0	52,0	13,0	13,0	22,0	7,0	26	400	2000
60GO	6,0	70,5	58,5	14,5	14,5	25,0	9,0	42	580	2900
70GO	7,0	79,0	65,0	16,0	16,0	28,0	10,0	62	800	4000
70GO EN	7,0	79,0	65,0	16,0	16,0	28,0	10,0	62	-	40 kN
80GO	8,0	88,0	72,0	17,5	17,5	31,5	11,0	93	980	4900
90GO	9,0	95,0	77,0	19,0	19,0	33,0	12,0	121	1250	6250
100GO	10,0	105,5	85,5	20,5	20,5	36,0	13,0	161	1600	8000
120GO	12,0	124,0	100,0	23,5	23,5	43,0	15,0	275	2200	11000
140GO	14,0	142,0	114,0	26,5	26,5	49,0	17,0	431	3100	15500
160GO	16,0	161,0	129,0	29,5	29,5	54,0	19,0	646	4000	20000

DELTA

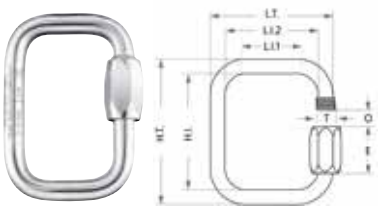
Part #	Size mm	L.T.	L.I.1	L.I.2	H.T	H.I	O	E	R	T	Weight g	WLL Kg	BL Kg
25D	2,5	22,0	10,0	17,0	27,0	22,0	3,5	8,0	3,50	3,5	3	70	350
30D	3,0	27,0	12,5	21,0	30,0	24,0	4,0	9,0	4,25	4,0	6	110	550
35D	3,5	31,0	14,0	24,0	36,0	29,0	5,0	11,0	5,00	5,0	10	150	750
40D	4,0	35,5	16,0	27,5	40,0	32,0	5,5	12,5	5,75	6,0	14	200	1000
50D	5,0	40,0	17,0	30,0	48,0	38,0	6,5	16,0	6,50	7,0	24	325	1625
60D	6,0	47,0	20,5	35,0	56,0	44,0	7,5	19,0	7,25	8,0	40	450	2250
70D	7,0	51,0	21,0	37,0	63,0	49,0	8,5	21,5	8,00	10,0	59	625	3125
70D EN	7,0	51,0	21,0	37,0	63,0	49,0	8,5	21,5	8,00	10,0	59	-	31 kN
80D	8,0	56,0	22,5	40,0	73,0	57,0	10,0	24,0	8,85	11,0	88	770	3850
90D	9,0	60,0	23,0	42,0	78,0	60,0	11,0	26,0	9,50	12,0	115	980	4900
100D	10,0	66,0	25,5	46,0	87,0	67,0	12,0	29,0	10,25	13,0	156	1250	6250
120D	12,0	75,0	27,5	51,0	104,0	80,0	15,0	33,0	11,75	15,0	262	1750	8750
140D	14,0	85,0	30,5	57,0	123,0	95,0	17,0	38,5	13,25	17,0	414	2450	12250
160D	16,0	93,0	31,5	61,0	138,0	106,0	19,0	45,0	14,75	19,0	627	3150	15750

PEAR

Part #	Size mm	L.T.	L.I.	H.T	H.I	O	E	R1	R2	T	Weight g	WLL Kg	BL Kg
25P	2,5	20,0	15,0	40,0	35,0	7,0	12,0	3,5	7,5	3,5	5	60	300
30P	3,0	23,6	17,6	45,5	39,5	8,5	13,5	4,3	8,8	4,0	8	100	500
35P	3,5	27,6	20,6	52,7	45,7	10,0	16,0	5,0	10,3	5,0	12	130	650
40P	4,0	31,8	23,8	61,2	53,2	11,5	19,0	5,8	11,9	6,0	18	170	850
50P	5,0	37,1	27,1	70,7	60,7	13,0	22,0	6,5	13,6	7,0	30	270	1350
60P	6,0	42,7	30,7	81,3	69,3	14,5	25,0	7,3	15,4	9,0	50	400	2000
70P	7,0	48,0	34,0	90,8	76,8	16,0	28,0	8,0	17,0	10,0	73	550	2750
80P	8,0	53,2	37,2	100,2	84,2	17,5	31,5	8,8	18,6	11,0	108	660	3300
90P	9,0	58,0	40,0	107,9	89,9	19,0	33,0	9,5	20,0	12,0	142	840	4200
100P	10,0	63,4	43,4	118,0	98,0	20,5	36,0	10,3	21,7	13,0	187	1100	5500
120P	12,0	76,0	52,0	144,0	120,0	23,5	43,0	11,8	26,0	15,0	329	1500	7500
140P	14,0	85,0	57,0	157,6	129,6	26,5	49,0	13,3	28,5	17,0	492	2100	10500
160P	16,0	95,5	63,5	176,5	144,5	29,5	54,0	14,8	31,8	19,0	735	2700	13500

SQUARE

Part #	Size mm	L.T.	L.I.1	L.I.2	H.T	H.I	O	E	T	Weight g	WLL kg	BL kg
25C	2,5	22,0	10,0	17,0	26,0	21,0	3,5	8,0	3,5	4	70	350
30C	3,0	24,0	9,5	18,0	31,0	25,0	4,0	9,0	4,0	6	110	550
35C	3,5	29,0	12,0	22,0	36,0	29,0	5,0	11,0	5,0	11	150	750
40C	4,0	33,0	13,5	25,0	41,0	33,0	5,5	12,5	6,0	15	200	1000
50C	5,0	38,0	15,0	28,0	50,0	40,0	6,5	16,0	7,0	27	325	1625
60C	6,0	43,0	16,5	31,0	57,0	45,0	7,5	19,0	9,0	44	450	2250
70C	7,0	48,0	18,0	34,0	66,0	52,0	8,5	21,5	10,0	66	625	3125
80C	8,0	53,0	19,5	37,0	76,0	60,0	10,0	24,0	11,0	90	770	3850
90C	9,0	58,0	21,0	40,0	83,0	65,0	11,0	26,0	12,0	132	980	4900
100C	10,0	63,0	22,5	43,0	92,0	72,0	12,0	29,0	13,0	171	1250	6250
120C	12,0	74,0	26,5	50,0	109,0	85,0	15,0	33,0	15,0	285	1750	8750
140C	14,0	85,0	30,5	57,0	124,0	96,0	17,0	38,5	17,0	451	2450	12250
160C	16,0	96,0	34,5	64,0	142,0	110,0	19,0	45,0	19,0	700	3150	15750

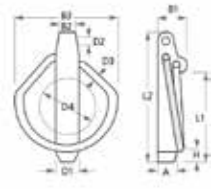


BETA PIN

Part #	Size mm	L	H	Dia axis	Weight g
20GB	2,0	48,0	15,0	8 to 12	3
25GB	2,5	53,0	18,0	8 to 14	4
30GB	3,0	60,0	21,0	10 to 15	8
40GB	4,0	78,0	28,0	15 to 20	16
45GB	4,5	102,0	34,0	20 to 22	27
50GB	5,0	103,0	34,0	20 to 25	33
60GB	6,0	103,0	36,0	25 to 30	52

LINCHPIN

Part #	Size mm D1	D2	D3	Dimension D4	B1	B2	B3	A	H	L1	L2	DIN 11023	Weight g
45GC	4,5	2,7	2,5	25,0	10,5	3,6	35,0	4,5	7,0	32,0	51,0	5 x 32	10
75GC	7,5	4,0	3,6	32,0	13,5	7,5	50,0	7,5	7,0	42,0	62,0	8 x 42	36
105GC	10,5	4,5	3,6	32,0	14,0	8,0	50,0	8,5	11,0	45,0	66,0	12 x 45	50



Technical information

Warranty

All Wichard products are warranted to be free of defects in materials or workmanship for five (5) years from the date of purchase by the original end-user. Excluded from this warranty are:

- Any product which has been improperly fitted.
- Any product which has been improperly used or used in any application for which it was not intended.
- Any product which has been improperly maintained.
- Any product modified without a written approval from Wichard.
- Any damage being a consequence from alteration, from ultraviolet light exposure or from the normal wear of products.

The useful life of any products is determined by its utilisation and an appropriate factor of safety (see page 67). It must be distinctly assessed in each application. Thus no guarantee can be provided for product life, dynamic capacities or any other factor due to the variability in usage.

Wichard's liability is limited to the repair or replacement of the defective goods exclusive of any other repair. Responsibility and costs of handling, transportation and any custom duties and tariffs linked to the warranty claim are in any case borne by Wichard.

Corrosion in marine environment

All Wichard products are passivated. Corrosion attacks stainless steel and is always visible in the form of black coloured roughness. Although this is dangerous, it is rarely seen in current use, except in cases where martensitic (HR) steel is in total, prolonged immersion. What many people erroneously call corrosion, is really rust, or oxidation. This is due to outside causes. In the marine environment, stainless steel is subject to considerable aggressive forces and is not totally corrosion free. Re-passivation can be accomplished with a passivator such as Wichinox (see page 8). All stainless steel products demand a minimum of upkeep.

Stainless steel

Wichard uses top-quality grades of stainless steel in its products (see chart). The first type is a low carbon austenitic steel (316L), which offers good mechanical characteristics. They are non-magnetic steels and most of Wichard products are manufactured in this grade. The second (17.4PH) is martensitic steel (magnetic), which is referred to as high-resistance steel (HR).

Type	***Austenitic***	***Martensitic***
Common name	18.12 Mo	17.4 PH
European Standard	X2CrNiMo17-12-2	X5CrNiCuNb 16-4
US AISI Standard	316 L	630
Composition Carbon	< 0,03 %	< 0,07 %
Chromium	18 %	16,5 %
Nickel	12 %	4 %
Molybdenum	3 %	
Copper		4 %

Why a Wichard shackle?

A Wichard shackle is manufactured on a very old principal, forging. Wichard has perfected and machined this process down to the smallest detail.

Reliability and high quality

After the row metal bars are checked on chemical alloy and quality, the metal is heated to the right temperature to be forged. Then the metal is pressed in its new shape with great force by a hydraulic hammer. Due to this process the metal obtains an organized structure without any weakness. Because of this structure, called fibers, the metal object is not only very strong but also has an "elastic" property.

Casted metal objects of the same design are less strong because the structure in the metal is not the same everywhere in the object. Next to this there is the chance that small air bubbles are enclosed during the casting. This causes a capital weakness in the casted object. Even objects machined from a block of metal can have weaknesses. Where the metal is machined into a curve the structure in the metal is broken and becomes a weak point in the object. When the object is overloaded it will break at this point.

Performance and security

Due to the technique of forging every object of the same design and shape has the same properties with a small tolerance of deviation. By controlling all important factors Wichard can guarantee an accurate breaking load and working load for each individual object.

Wichard advises to respect carefully the Working Load (WL) indicated for each of its products. If a Wichard product is overloaded between the safe working load and breaking load the product will deform due to its "elastic" property. This gives the user an extra safety margin and shows when the product is overloaded. Deformed parts have to be replaced immediately preferably by a part in a larger size.

Technical information

Definitions

Working Load (WL) indicates the value of static load at which the product will still function without excessive friction or wear or permanent deformation of components.

Breaking Load (BL) indicates the value of static load for which a major failure of one or some structural components or the complete destruction of the product can be expected when new. Plastic components may split, rivets may give way, shackles or any other connection parts break and other metallic components may fracture.

Units of load

Our resistance values are shown in kilogramme-force (symbol: kgf or more usually kg), which is the force due to gravity sustained by a mass of 1 kg situated at the latitude of Paris. This unit of force is obsolete, and is not part of the SI international system of units, which links concepts of mass and weight. The unit of force used in the SI system is the Newton (N).

To pass from the kilogramme-force to the Newton its value must be multiplied by g, the acceleration of gravity, which is 9.80665 m/sec² at the latitude of Paris, or 9.80665 N (N = kg x m x s-2). In the fields where the kgf appears we should now use the decanewton (or dekanewton), daN: 1 kgf = 9.806 65 N = 0.980665 daN (1 daN = 1.019 716 kgf).

Our test equipment measures loads in daN, but bowing to custom and for reasons of simplicity and safety, we still give values in kgs in our brochures and on our products. Our measured values have simply been converted into kgs.

Factor of safety

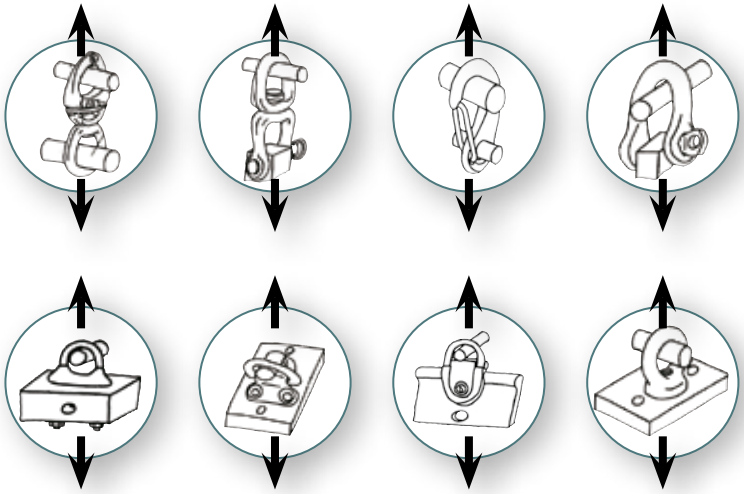
Before choosing or specifying a particular product, an appropriate factor of safety should be applied to Breaking Loads (BL) to suit each application.

For many industrial and safety applications, and for some yachting application, a factor of safety greater than two (2) should be used or may be required by law or other regulations. It is the customer's responsibility to ensure that an appropriate factor of safety is used, and it should take into account safety implications, service life, fatigue (as may be caused by wave action, wind stress or repetitive cyclical loading), type of load, exposure to ultraviolet light, corrosion and stress corrosion (such as in high humidity or high chlorine environment). Even more attention is required when specifying blocks as other factors have to be taken into account such as rotary speed, deflection angle of the rope or the number of wire of the tackle (see page 31 of the present document). Note that a "Safe Working Load" is not specified as this is dependent on the factor of safety, which must be determined by the user relative to each application.

In any case, never use the products over the working load !

Useful life

The useful life of any products is determined by the above factors and must be assessed in each application. Thus no guarantee can be provided for product life, dynamic capacities or any other factor due to the variability in usage. In some jurisdictions government regulations require the replacement of rigging components within certain periods of time, usually after three or five years. You must ascertain whether any such regulations affect you and take appropriate steps if you are affected.



Maintenance and inspection

All your marine hardware, blocks and equipments must receive regular inspections to prevent any deformation, wear, cracks or corrosion. Even if your products have had little use, ultraviolet light exposure, wave action, humid or saline environment may cause damage that could affect quality or strength of the equipment. If, after inspection, you are in doubt about the integrity of one of some parts, it is the customer's responsibility to replace the defective components or product to ensure his own safety.

While every precaution is taken in the product design and manufacturing processes of our products to minimize the effects of corrosion or stress corrosion, appropriate preventive or corrective treatments must be carried out to the products after installation.

Part #: W246GB21 - Pictures: Wichard - Bertrand Duquenne - Guilain Grenier - J-JM Liot - C Breschi - Pierre Bouras, Vapillon, X-yachts, Branco, Arnaud de Buyzer , Gilles Martin-Raget, Poussé par le vent, Js Evrard - Photos non contractuelles,.

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