



# UNDERWATER HUNTING & FREEDIVING EQUIPMENTS





## **MURANA CHROME GREEN & BROWN**

The Murana Chrome camouflage pattern, with its divided design and dark green and black color scheme, provides great disguise advantages in the majority of underwater environments.

### **Neoprene**

100% Chloropren Rubber with its density, perfect insulation and high stretching factor, equips Murana Green & Brown with extra durability under pressure, additional insulation and comfort compared to other rubber foam of same thickness.

### **Jersey Fabric**

Woven of microfiber polyester and Invista Lycra®, jersey fabric used in the making of Murana Green & Brown provides great elastic stretch in every direction and holds minimum amount of water with its silky texture. Jakboeno® original design is printed on the raw fabric with UV resistant colors of 4-5 fastness, preventing the colors from fading and the fabric from turning white when stretched.

### **Chest Pad**

The new rubber chest pad is reinforced with 3mm neoprene, and with its flexibility and pieced assortment provides gun-cocking comfort. The pad is heat processed and then sown on the suit.

### **Elbows and knees**

They are protected with a new rubber pad, and with its flexibility and pieced assortment provides comfort. Pads are heat processed on the jersey.

### **Available in:**

3mm, 5mm, 7mm and 9mm thicknesses

S / M / L / XL / XXL / XXXL sizes

Long John pants on request





## **MURANA CHROME BLUE**

The Murana Blue camouflage pattern, is specifically designed for blue water hunting. With its divided design and blue and black color scheme, provides great disguise advantages in the pelagic zone.

## **NERO CHROME**

Nero brings back the classic black look to the wet suit for the traditional hunters.

## **Neoprene**

100% Chloropren Rubber with its density, perfect insulation and high stretching factor, equips Murana Blue with extra durability under pressure, additional insulation and comfort compared to other rubber foam of same thickness.

## **Jersey Fabric**

Woven of microfiber polyester and Invista Lycra®, jersey fabric used in the making of Murana Blue provides great elastic stretch in every direction and holds minimum amount of water with its silky texture. Jakboeno® original design is printed on the raw fabric with UV resistant colors of 4-5 fastness, preventing the colors from fading and the fabric from turning white when stretched.

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S / M / L / XL / XXL / XXXL sizes

Long John pants on request





## **MASTER BLACK SKIN**

### **Neoprene**

100% Chloropren Rubber with its density, perfect insulation and high stretching factor, equips Master Black Skin, with extra durability under pressure, additional insulation and comfort compared to other rubber foam of same thickness.

On the other hand, with its high stretching factor provides great comfort in wearing, and great resistance to tear, due to its sandwich construction.

**The hood and the sleeves** are finished with smooth skin seals to minimize water circulation.

**Chest pad** is installed inside the suit. The crotch is lined with jersey for durability.

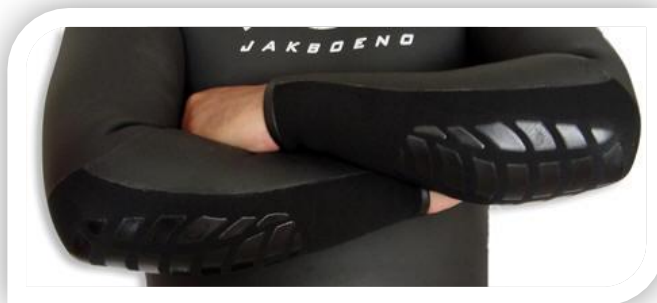
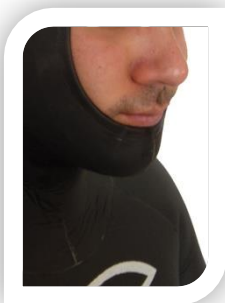
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### **Available in:**

3mm, 5mm and 7mm thicknesses

S / M / L / XL / XXL / XXXL sizes



# SIZE CHARTS

## MEN SIZE CHART

Size		Height (Cm)	Weight (Kg)
XS	1	155 - 162	55 - 60
S	2	162 - 168	60 - 66
M	3	168 - 175	66 - 73
L	4	175 - 182	73 - 82
XL	5	182 - 190	82 - 90
XXL	6	190 - 195	90 - 100
XXXL	7	195 - 200	100 - 115

## WOMEN SIZE CHART

Size		Height (Cm)	Weight (Kg)
XS	1	150 - 158	43 - 50
S	2	157 - 163	48 - 54
M	3	160 - 168	54 - 63
L	4	165 - 172	62 - 70
XL	5	170 - 183	69 - 75

# GLOVES



## AMARA TROIAN

Amara Troian is made out of 1.5 mm Troian Camu jersey neoprene except for the palm and fingers which are of reinforced grey amara.

The thumb is supported for handling. The ergonomic Velcro® on the wrist provides comfortable fitting.

Sizes available: S, M, L, XL



## AMARA OMBRE

Amara Ombre is made out of 1.5 mm Ombre Camu jersey neoprene except for the palm and fingers which are of reinforced anthracite amara.

The thumb is supported for handling. The ergonomic Velcro® on the wrist provides comfortable fitting.

Sizes available: S, M, L, XL



## SHARK

Shark is made out of 1.5 mm black jersey neoprene except for the palm and fingers which are of Q-shark neoprene enabling a strong grip.

The latex band on the wrist provides fine fitting.

Sizes available: XS, S, M, L, XL, XXL



# SOCKS

All socks are made of 3mm neoprene laminated with microfibre polyester jersey on the exterior and black jersey in the interior.

The sole is strengthened with double lined supratex polyester jersey.

Sizes Available: S-M / L-XXL



**Ombre Pro**



**Murana Brown**



**Murana Green**



**Nero**

# WIND BREAKERS



The 3mm neoprene, hooded windbreaker is perfect not only for after underwater hunting in winter but also for those who fish or spend time on the sea in cold, windy and rainy weather. The loose and comfortable fit narrows down on wrists to prevent heat loss.

Comes in 6 different colors and in M, L and XL sizes.



# WEIGHT VESTS



**Murana Green**



**Murana Brown**



**Ombre Pro**



**Nero**

The compact weight vest is made of polyamide jersey 3 millimeters (mm) neopren and lead weights designed to fit perfectly to the anatomy of the back.

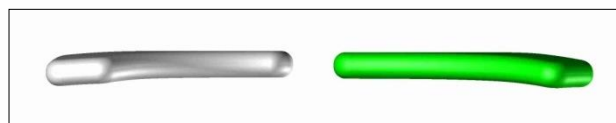
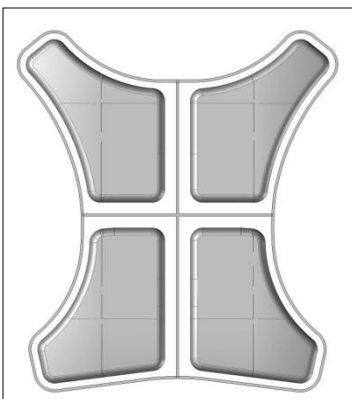
In order to compensate for the buoyancy of the neopren material, the vest has been designed to weigh 4640 grams (gr).

The net sinking weight of the vest is 4500 gr.

The ANM adjustable double side squeeze buckle allows the vest to be fitted as desired.

The latex band attached to the D-ring can be fixed to the weight belt buckle to prevent the upward movement of the vest during diving.

Murana Green, Murana Brown, Murana Blue, Ombre Pro, Mantis Pro and Nero colours are available in S-M and L-XXL sizes.





# BELT WEIGHTS

## PRO WEIGHTS



**Pro 750**



**Pro 1500**



**Pro 2250**



Pro series diving weights are coated with epdm rubber which not only enables a professional hunting experience by minimizing noise but also makes spearfishing into an eco-friendly sport by protecting the nature from toxic lead.

The weights have hollows through which the belt can be passed.

Pro series are hydrodynamically shaped into 750 grams, 1500 grams and 2250 grams, in same widths and height but different lengths to allow comfortable use.

## CLASSIC WEIGHTS



**Classic 1500**



Classic diving weights are coated with epdm rubber which not only enables a professional hunting experience by minimizing noise but also makes spearfishing into an eco-friendly sport by protecting the nature from toxic lead.

Classic weights are molded in standart form in 1500 grams.

Their thin and hydrodynamic shape is ideal for low weight users and deep-diving.

# ANKLE WEIGHTS

The 500 gr. ankle weight made of two 250 grams of lead weights coated with rubber is used to decrease the bouyancy of the legs of the wet suit and to prevent the fins from floating.

The ergonomically designed ankle weight is fixed to the ankle with Velcro® and is kept in place with the help of the inner fluting.



# MARSEILLAISE BELT



Designed for diving weights to be carried on waist and produced from 40 shore rubber. Because the belt is pressed in individual molds with heat processing, as opposed to standard cut rubber belts, the edges of the belt and the holes are rounded helping the weights to pass through as easily as possible.

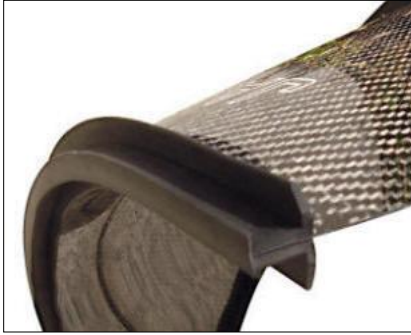
The belt buckle is made of 8 mm 304 CrNi and the prong is designed to stay perpendicular to the buckle when the belt is pulled to enable easy release when needed.

The belt is 5 mm thick, 47 mm wide and 170 cm in length, fitting the JakBoeno rubber coated diving weights.

# FIN BLADES

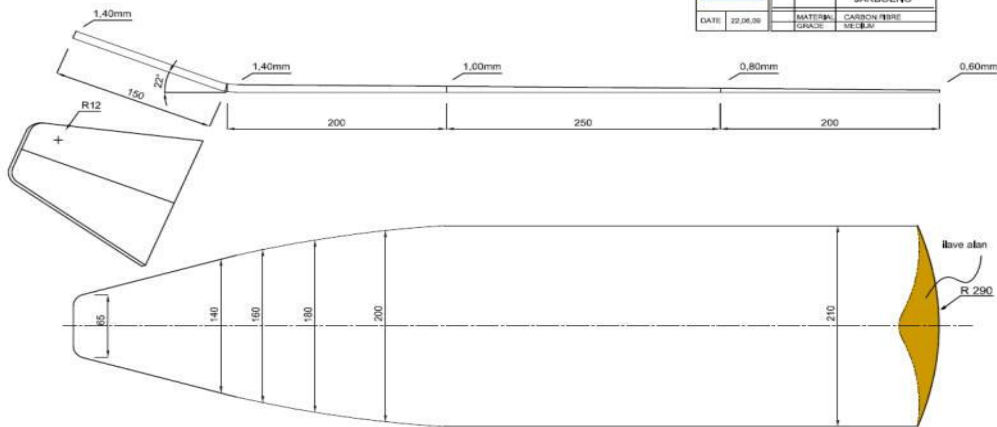
JAKBOENO fin blades are produced using carbon, carbon-kevlar and glass fibers in three different thicknesses (soft-medium). All blades are hand crafted.

The patterns and writings are off-set transfer printed to specific fabrics first; the fabrics are then covered with epoxy resin in steel molds into fin blades. This process enables the patterns to be considerably resistant to abrasive



underwater environment. The thickness of the fin decreases from 1.40 mm to 0.60 at the tip. Unlike the usual layer peeling method of fin thinning, this gradient in JAKBOENO fins is obtained in the molding process making the fins again more durable. The fin blades are manufactured to attach to the foot pocket at the ideal ergonomoy of 22° The rubber side bands are inverse-T shaped to allow easy fitting to almost all foot pockets. The convex form of the tips increase the surface area of the fin by 8%.

TRADE MARK	PART	PART NO.	DENOMINATION
		20 22 01	CARBON BLADE
			K3
			JAKBOENO
DATE: 22.06.09	MATERIAL:	CARBON FIBRE	
	SPACE:	WEAVE	



## Carbon fiber fabric

Width (mm)	Density (count/10mm)		Thickness (mm)	Weight (g/m <sup>2</sup> )	Woven type	Yarn	
	Warp	Weft				Warp	Weft
1,000	9	9	0.16	120	PLAIN	1k	1k
1,000	9	9	0.16	120	TWILL	1k	1k
1,000	10.5	10.5	0.17	140	PLAIN	1k	1k
1,000	10.5	10.5	0.17	140	TWILL	1k	1k
1,000	5	5	0.30	200	PLAIN	3k	3k
1,000	5	5	0.30	200	TWILL	3k	3k
1,000	6	6	0.32	240	PLAIN	3k	3k
1,000	6	6	0.32	240	TWILL	3k	3k
1,000	7	7	0.34	280	PLAIN	3k	3k
1,000	7	7	0.34	280	TWILL	3k	3k

# FIN BLADES

## CARBON BLADES

Carbon fiber fin blades are manufactured with 3K Twile weaved carbon fabric. Carbon fiber blades are ideal for underwater as they are characterized by their optimum efficiency regarding lightness and their high yield of performance.



**Natural Black Carbon**



**Murana Green Carbon**



**Murana Brown Carbon**



**Ombre Pro Carbon**

## GLASS FIBER BLADES

Glass fiber blades are produced by combining glass fiber with epoxy resin. These blades' durability along with their suitable price makes them a good choice for shallow and mid-depth diving.

**Natural Black, Murana Green, Murana Brown, Ocean Blue and Ombre Pro** camu patterns and writings are off-set transfer printed to specific fabrics first; the fabrics are then covered with epoxy resin in steel molds into fin blades.

This process enables the patterns to be considerably resistant to abrasive underwater environment.



**Naturel Black Glass**



**Murana Green Glass**



**Murana Brown Glass**



**Mantis Pro Glass**



**Ocean Blue Glass**



**Ombre Pro Glass**



# MASKS AND SNORKELS



**Mantis Pro Nero**



**Mantis Pro Carbon**



**Mantis Pro Camu**



**Frameless Pro**



## ***MANTIS PRO***

With its super low volume and excellent wide field of vision, Mantis Pro is especially designed for free divers and spearfishers.

Black silicone double feather-edge facial skirt and mask strap.

Tempered glass.

The face seal is designed for general divers.

Unique and patented push-button buckles allow easy, quick strap adjustment.

Flexible buckle system attachment swivels with facial movements and absorbs shock, preventing buckle breakage when mask is bumped.

This mask uses a new anti-fog technology which prevents recurring fogging found in many masks in the market. It's unlike other anti-fog technologies which uses a layer of anti-fog substance on the inside of the lens. Over time, this layer wears off and the mask starts fogging.

The technology used in this mask will ensure that with repeated use, the mask will fog less and less. Mask fogging will become a problem of the past.

## ***FRAMELESS PRO***

Classic frameless mask with feather-edge facial skirt black.

Tempered glass and low volume with tremendous field of vision. The face seal is designed for general use.

## ***SNORKELS***

Low profile and very ergonomic J- type snorkel.

Black silicone and comfort mouthpiece for free diving and spearfishing purpose.

Available color: All Black



# ALUMINIUM RAILGUNS

## **SMART BLACK**

Smart is designed for beginners and intermediate spearfishers



Duraluminium railed barrel, enable an appropriate shooting performance on long range, prevents bending of the barrel also with power sandows.

Round notch spears are specially designed to prevent worning-out of the rope and the fishline.

## **TECHNICAL SPECIFICATIONS**

Closed muzzle, Composite duraluminum railed 28mm Ø barrel

5 stage water proof stoppers in the barrel.

Ergonomic handle made of 6.6 nylon reinforced with fiberglass. Layered with a raw material to prevent slipping, Open head made of 6.6 nylon, reinforced with fiberglass.

Double component 20 mm Ø screwable sandows

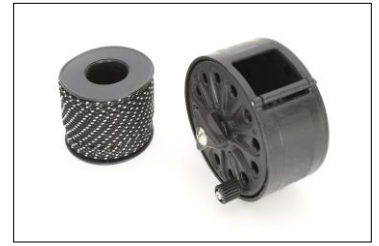
Articulated wishbone to work easily on the axis of head, spear and mechanism.

Two piece, silent triger mechanism suitable for different rubber thickness.

6.50 mm AISI 630 (17-4ph) stainless steel round notch spear, 1.35 mm challenge cordage fishline and clips, Shock absorber rubber for the rope and fishline, Reel mounting apparatus

## **LENGTH**

45 cm, 60 cm, 75 cm, 82 cm, 90 cm, 100 cm, 110 cm



# ALUMINIUM RAILGUNS

## **SMART OPEN BLACK**

Smart Open is designed for advanced users.



Duraluminium railed barrel, enable an appropriate shooting performance on long range, prevents bending of the barrel also with power sandows.

Sharkfin spears are specially designed to prevent worning-out of the rope and the fishline.



## **TECHNICAL SPECIFICATIONS**

Open muzzle, composite duraluminum railed 28mm  $\emptyset$  barrel

5 stage water proof stoppers in the barrel.

Ergonomic handle made of 6.6 nylon reinforced with fiberglass. Layered with a raw material to prevent slipping, open head made of 6.6 nylon, reinforced with fiberglass.

Double component 20 mm  $\emptyset$  round sandows, corde wishbone.

Two piece, silent triger mechanism suitable for different rubber thickness.

6.50 mm AISI 630 (17-4ph) stainless steel shark fin spear

1.35 mm callenge cordage fishline and clips, reel mounting apparatus

## **LENGTH**

82 cm, 90 cm, 100 cm, 110 cm , 120 cm , 130 cm

## **SMART CAMU GREEN & SMART OPEN CAMU BROWN**

Beautifull camouflage for two different environnement. Very resistant layers to shocks and scratches

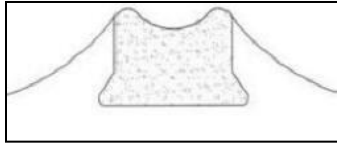


# WOODEN SPEARGUNS

## ZEN

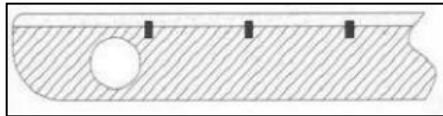


The Zen series is created using fine quality Myanmar Teak timber not kiln dried in order to preserve the natural oil of the trees and thus enable durability. The triple laminated timber, after a certain time period, is hand-crafted into the spear gun. The shaft guide is strengthened and made slick with epoxy resin which provides protection against possible damage. The three magnets



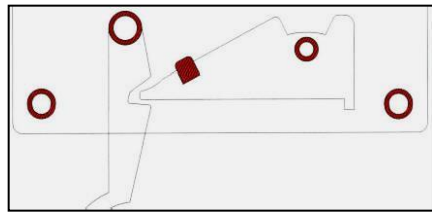
embedded in the shaft guides of the Zen Series speargun keep the spear in place while the gun is cocked in water, gaining time and advantage for the hunter and minimize the ballistic errors, enabling accuracy of 10-14 cm groupments from 3-4 meters distance. The

single circular sandowed models come with a standard 19.00 mm sandow. In double circular



sandowed models, 15.50 mm and 17.50 mm

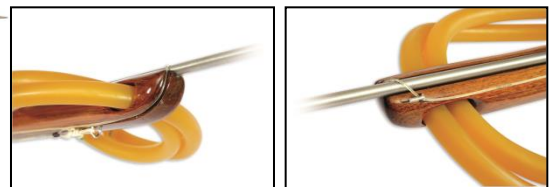
sandows are available. All sandows have traditional amber and black color choices. The wishbones are crafted of resin-covered, antistatic, unflexible and long-enduring 2.00 mm jacard cords. Shaft cords are made of threaded polyester much more durable than the standard monofilament nylon cords. The two pieced trigger mechanism can be used with standard spears.



The silicon pin on the hammer and Delrin® O rings enable the trigger mechanism to operate in absolute silence. All parts of metal are made of Polished Ni-Cr AISI 316 Locktite® industrial adherent is used in screwing. The inner form of the reel made of Delrin® and polyethylene is shaped especially not to damage the reel cord. The reel mechanism is designed to release the

cord when it is subjected to a force greater than 2.00 kilograms minimizing the risk of loosing the spear gun to the rapid movements of the strong prey. The handle is covered with nonslip material to allow comfortable grip in different positions. With their original design and buoyancy close to neutral, the Zen Series wooden spearguns ensure a great underwater hunting experience.

Zen90, Zen90D, Zen100, Zen100D and Zen110D are brought to the customers ready to be used with shark fin shafts, circular sandows, reel and reel cord, two spare wishbone cords, three sleeves, a spare shaft cord and a shaft remover.



# SHAFTS

The shafts, manufactured of Sandvik AISI 630 (17-4ph) inox material, are available in 6.50mm and 7.00mm as shark fin and round notch.



## Round Notch Spear Measurements

LENGHT (cm)	6.50 mm.
75	✓
90	✓
115	✓
125	✓
130	✓
140	✓
150	✓
160	✓

## Shark Fin Spear Measurements

LENGHT (cm)	6.50 mm.	7.00 mm.
130	✓	✓
140	✓	✓
150	✓	✓
160	✓	✓

## SCREWABLE SANDOWS

The outer layer of the sandows are colored black to increase protection from UV while the natural latex inner core produces a better performance.

The couplings at the tips of the sandows bear standard screw thread size making the sandows suitable for almost all spearguns.

Screwable Sandows are sold with a specially manufactured wrench to enable the customer to easily screw and unscrew the sandow when needed.

The couplings are colored in order to make the improperly screwed sandows easily noticeable by the user.



### SCREWABLE SANDOWS MEASURES

DIAMETER (mm.)	LENGHT (cm.)	DIAMETER (mm.)	LENGHT (cm.)	DIAMETER (mm.)	LENGHT (cm.)
15.50	14.00	17.50	14.00	19.00	14.00
	16.00		16.00		16.00
	18.00		18.00		18.00
	20.00		20.00		20.00
	22.00		22.00		22.00
	24.00		24.00		24.00
	26.00		26.00		26.00
	28.00		28.00		28.00
	30.00		30.00		30.00
	32.00		32.00		32.00
Circular	34.00	Circular	34.00	Circular	34.00
	36.00		36.00		50.00
	38.00		52.00		54.00
	48.00		56.00		58.00
	52.00		60.00		62.00
	56.00		64.00		66.00
	60.00				



## **CIRCULAR SANDOWS WITH CORD WISHBONE**



The **“NEWFORCE”** series natural latex sandows are manufactured using Dip Processing. The multi-layered rubber produced enables the sandow to be more resistant to UV light and more protected from the environment.

Dip Processing also enhances the performance of the sandow significantly; the newforce sandows are 18 % stronger and 150 milliseconds faster than the regular sandows.

The sandows with resin-covered, antistatic, unflexible and long-enduring 2.00 mm jacard cord wishbones are designed especially for the shark fin shaft.



To enable the easy replacement of the cord, the knot eye system has been used.

The tips of the sandow have been shaped hidrodynamically. The natural amber latex sandows are sold in opaque packs in order to increase durability by protecting the product from light. The Circular Sandows with Cord wishbones are produce different widths and four different lenghts for each width.

15.50 mm available in 50, 54, 58 and 62 cm

17.50 mm available in 52, 56, 60 and 64 cm

19.00 mm available in 54, 58, 62 and 66 cm

## **CIRCULAR SANDOWS WITH METAL WISHBONE**



Sandows with jointed metal wishbone in standard sizes are designed especially for the round notch shaft. In order to erase the montage process, one tip of the sandow is bowed while the other tip is left loose with the bowing cord on it.

The tips of the sandows have been shaped hidrodynamically. The outer layer of the sandows are colored black to increase protection from UV while the natural latex inner core produces a better performance

15.50 mm available in 50, 54, 58 ve 62 cm

17.50 mm available in 52, 56, 60 ve 64 cm

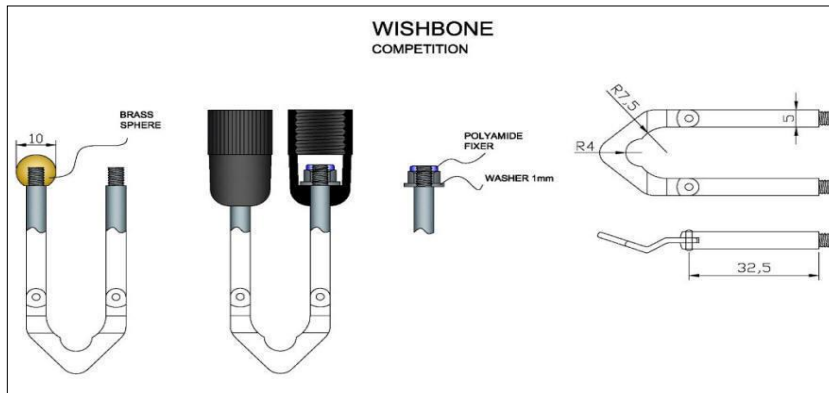
19.00 mm available in 54, 58, 62 ve 66 cm

## METAL COMPETITION WISHBONES

Articulated short wishbones are suitable for competition. Wide base and short sleeves help the competitor to get the maximum performance of the sandows and gain time.

They are made of 5mm NiCr AISI 301 stainless material and are compatible with all standart screwable sandows.

Articulated short wishbones with spheres are suitable for round notch spears. They are made of 5mm, NiCr AISI 301 stainless material with 8mm diameter brass spheres for 15,50mm sandows and 10mm diameter brass spheres for 19,00mm sandows, ready to use with waxed cords.



## FRENCH WISHBONES

French wishbones are made of 4 mm NiCr AISI 316 stainless material and are suitable with all standart screwable sandows. Metal wishbones are made for round notch spears, of 4 mm, NiCr AISI 316 stainless material with 8 mm diameter brass spheres for 15.50 mm sandows and 10mm diameter brass spheres for 19 mm sandows, ready to use with waxed cords.



## CORD WISHBONES



Cord wishbones are made for shark fin spears, of 2 mm, abrasion and elongation resistant, antistatic, harness cords braided of Polyester yarns with 8 mm diameter delrin spheres for 15.50 mm sandows and 10mm diameter delrin spheres for 19 mm sandows, ready to use with two loops and waxed cords.



## **WISHBONE CORD**

The wishbone cord is made of 2 mm, abrasion and elongation resistant, antistatic, harness cord braided of Polyester yarns. Unlike the loose braided cords, this wishbone cord does not tighten more than it should, allowing it to be changed easily and quickly when needed.

Sold in 1 meter packs.



## **REEL CORD**

The 1.70 mm reel cord is braid of beige colored polyester yarns. The color makes the cord visible and easily located during hunting.

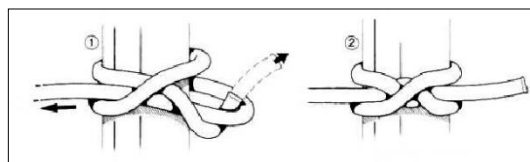
Sold in 50 meter coils.



## **CONSTRUCTOR CORD**

The constrictor cord is braid loosely from polyester yarns in 1.20 mm diameter and waxed to allow the constrictor know to be as tight and strong as possible.

Sold in 2 meter packs.



## **SHAFT CORD**

Significantly more abrasion resistant than standart monofilament polyamide cords, the 5 meters long, shaft cord with built in polyester braiding is sold with three sleeves.



## **SPEAR REMOVER**



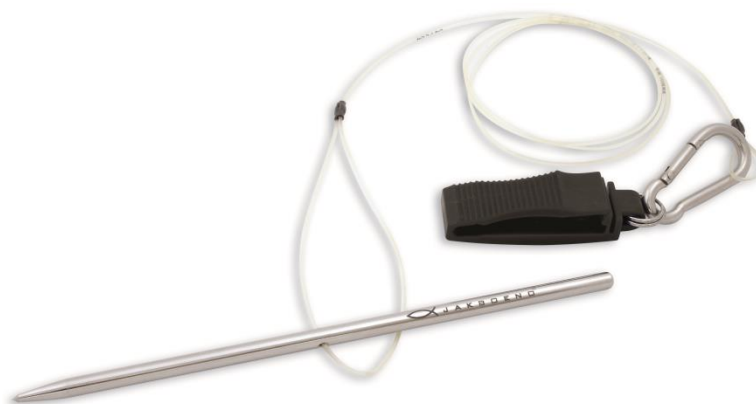
The shaft remover is made of 5 mm Cr-Ni AIDI 326 stainless material. It can be carried comfortably in the sleeves of the wet suit.

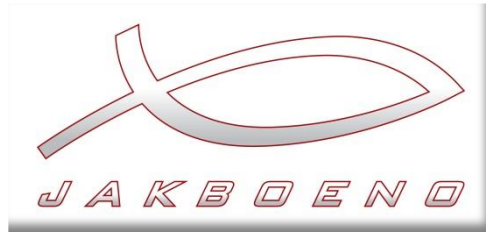
The removers ergonomic design enable easy removal of the shaft by fitting into the palm.



## **FISH STRINGER**

The carabiner and the shaft of the fish stringers are made of, 6.50 mm Cr-Ni AISI 316 stainless steel. While fixing the first weight on the weight belt, the buckle also allows the easy detachment of the carabiner.





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