

VERTICAL EVOLUTION



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Vertical Evolution is a Company dedicate to he production of anchors and individual protection devices specially for sport activities. Our mission is to produce high quality articles made in Stainless Steel or Titanium for climbing or similar activities for Italian marked and export all over the world

VERTICAL EVOLUTION PRODUCT'S FEATURES

- all raw material that we use are certified.
- all weldings are made using tig technology.
- all components are treated with tumbling sanding to have a very smooth surface.
- all articles are with marine treated surface in order to give the best durability.
- all our glue-inn anchors have the pin thread by roller for an hard surface and the best glue grip.
- we are a flexible company dedicated to customer needs for this we have the capability to realize dedicated projects on customer demand.



WHY USING THE TIG WELDING TECHNOLOGY

Welding with TIG technology a real melting of base material is made and if required only some new material is added.

With this process there is no generation of dross that can generate porosities where corrosion can begin, over than these, the two parts jointed melt together generating a new entity

The perfect jointion of the two elements can be appreciate on the two pictures below, on traditional welding with MIG technology the two parts to be jointed are visible and the added material made the jointion, vice versa, on the TIG welding the two parts are melted together and the two parts are no more visible, in this way, over than having a higher strengthness, ther are no air boubles that can originate corrosions phenomen.



TIG where the two parts jointed are no more visible why a real melting is made and the two partstogether with the adding material generate a new component witout air boubles

MIG welding where the two parts are visble and there is the possible oring of air boubles that can originate corrosion phenomens



TITANIUM

**TITANIUM IS THE
BEST ANSWER TO
THE CORROSION,
ESPECIALLY
ON MARINE
ATMOSPHERE
IN ORDER TO
GRANT THE
LONGEST LIFE TO
THE ANCHORS**

Physical properties of titanium.

TITANIUM, is situated at number 22 on the periodic table of the elements, has very interesting engineering properties: it shows low density, high strength (similar to steel and 2 times more than aluminum) low elastic modulus, low electrical conductivity, low thermal expansion, very excellent corrosion resistance, easy to work, it is biocompatible, is very suitable to be used on nuclear plants, it is not magnetic and it can work in very cold areas.

Titanium can not be attacked by corrosion from salty water and for this reason is used on the plant to treat salty water and for marine boats,

Titanium represents the best material to be used on anchors that have to be installed near the sea in order to grant a long durability, all our anchors made in Titanium are without weldings just to avoid damages on the metal structure in the welding point and have an integral metal structure to grant the longest possible life

U ALPHA



- VE170T** - Glue-in Titanium g2 U ALPHA Anchor D10x80 mm
- VE171T** - Glue-in Titanium g2 U ALPHA Anchor D10x150 mm
- VE172** - Glue-in Titanium g2 U ALPHA Anchor D10x80 mm

NEW ARROW



- VE040NT** - Titanium g2 Glue-in MONO PIN ARROW 10x100 mm

ALPHA RING



- VE180T** - Glue-in Titanium g2 U ALPHA Anchor D10x80 mm with ring
- VE181T** - Glue-in Titanium g2 U ALPHA Anchor D10x150 mm with ring

ARROW



- VE039T** - Titanium g2 Glue-in ARROW 10x80 mm
- VE040T** - Titanium g2 Glue-in ARROW 10x100 mm
- VE041T** - Titanium g2 Glue-in ARROW 12x100 mm
- VE042T** - Titanium g2 Glue-in ARROW 12x150 mm
- VE043T** - Titanium g2 Glue-in ARROW 14x150 mm

ARROW



VE040TR - Titanium g2 Glue-in ARROW 10x100 mm with ring

DUO



VE190T - Titanium g2 Glue-in DUO anchor D 10x80 mm l=100

VE192T - Titanium g2 Glue-in DUO anchor D 10x150 mm l=100

ASYMMETRICAL U ANCHOR



VEX032T - Glue-in Titanium g2 U Anchor D10x80/40 mm

DUO TWIST



VE196T - Titanium g2 Glue-in DUO TWIST R anchor D 10x100 mm l=200 with rings

DUO-X



VE197T - Titanium g2 Glue-in DUO-X anchor D 10x80 mm l=200

ARROW



VE040NTR - Titanium g2 Glue-in MONO PIN ARROW 10x100 mm with ring

RING



VE601 - Titanium g2 Ring D 32 mm

VERTICAL EVOLUTION
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