

BLUMAGS

POWER OF MAGNETS



WHY BLUMAGS?

Magnets can be used for just about anything in and around the water. Near the waterline they can be a useful attachment point for oil containment booms or for temporary mooring of RIBs and motor boats. Under water, divers often find themselves in need of a temporary anchoring point, either to keep themselves in position or for any kind of tool they are working with. ROVs (Remotely Operated Vehicles) face the same challenges as divers, just at another scale.

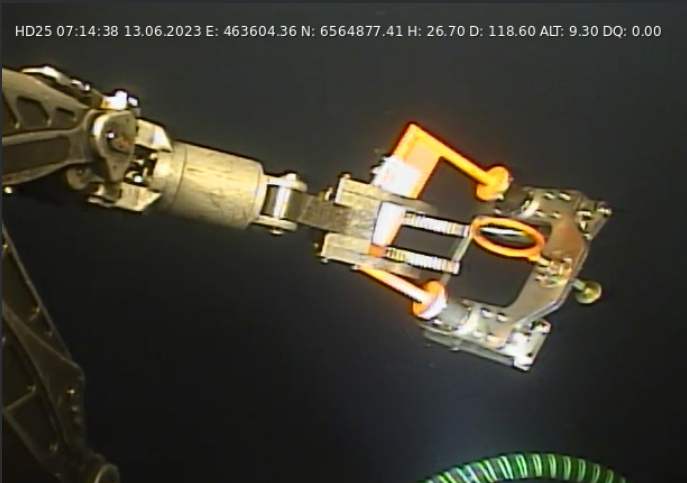
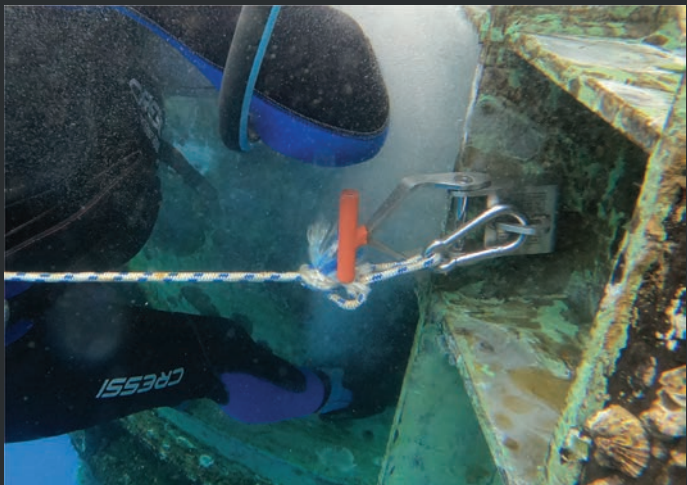
While there are many magnets out there, there are none like Blumags. Made from powerful neodymium sandwich cores, our magnets outperform the more common pot magnets in terms of magnetic field depth, making their performance less affected by paint, rust and marine growth.

Our patented design enables a more compact design and a superior force-to-weight ratio.

The housings are made from stainless steel, the obvious choice (in our opinion) for wet environments.

Finally, all our magnets can be modified by attaching custom tools on the top plate. Because whatever the solution to your problem, Blumags strive to be a part of it.

The world's best marine magnets, simply put.



HANDHELD MAGNETS

Our handheld magnets have a combined range of holding force from 100 kg to 800 kg (220 lbs to 1750 lbs). Thanks to our patented internal design, they boast an extreme power-to-weight ratio.

Flipper is the smallest series, typically used for keeping a diver in position or for attaching lightweight equipment such as hoses and guide wires.

The Willy magnets are larger, intended for heavy duty applications such as attachment for drilling machines, large oil booms or mooring points for work boats.

FLIPPER		WILLY	
			
Pull force: ¹		Pull force: ¹	
100 kg 220 lbs	250 kg 550 lbs	500 kg 1100 lbs	800 kg 1750 lbs
Net weight:		Net weight:	
1.3 kg 2.9 lbs	1.3 kg 2.9 lbs	3.1 kg 68. lbs	4.4 kg 9.7 lbs
Rigging point:		Eye nut size:	
D-bar w/ 2xM6 screws		M8	M10

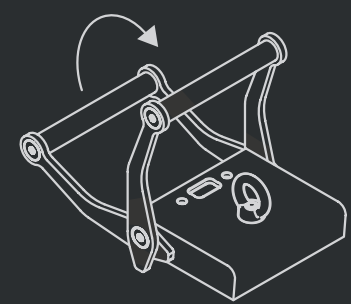
All our magnets are shipped in compact IP67-rated tool cases with in-built magnetic shielding, safe for air freight.



With the Dive Grip add-on the diver can hold on to the magnet with his hand without releasing it. One size fits both Willy 500 and Willy 800.

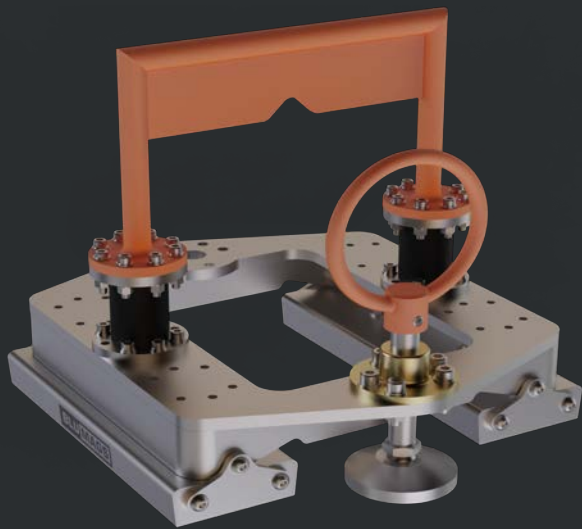


The magnets are easily released by pulling the lever.



¹ Measured perpendicularly on a 30 mm mild steel plate

MOBY 3200 - THE ROV MAGNET

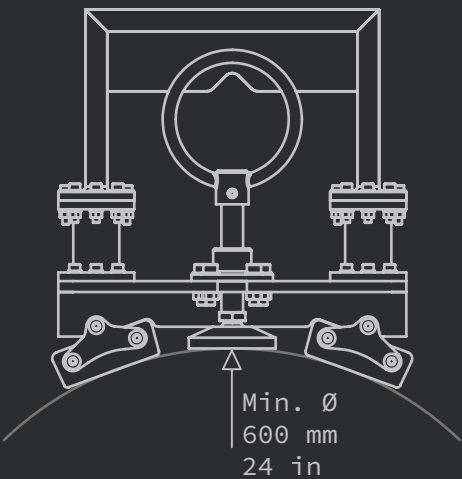


The primary objective behind the creation of Moby was to develop a magnet that could serve as a strong anchoring point for work-class ROVs.

Just as divers rely on magnets to maintain their position underwater, ROVs often face challenging conditions such as ocean currents and wave motions while performing meticulous tasks that require precision and stability.

Moby 3200 can be customised, just like the rest of the Blumags family. The basic configuration includes a main handle intended for a Rigmaster along with a release mechanism consisting of a screw and an interface for a 7-function (or T4) arm. And extra release screw is included, which can be mounted on the opposite side if needed.

The magnet has been designed so that it can be applied on curved surfaces with diameter down to 600 mm (24 inches).



Pull force: ¹	3200 kg 7000 lbs
Net weight:	24.5 kg 54.0 lbs
Standard rigging point:	Rigmaster grip handle
Standard release mechanism:	Release screw

¹ Measured perpendicularly on a 30 mm mild steel plate



“ ROV attempted to move the magnet by both pulling the Atlas arm, and thrusting with full thrust in all direction. The magnet did not move.

Ida Haug Færøy,
DeepOcean

MAGNETS FOR ANY OCCASION

Stainless

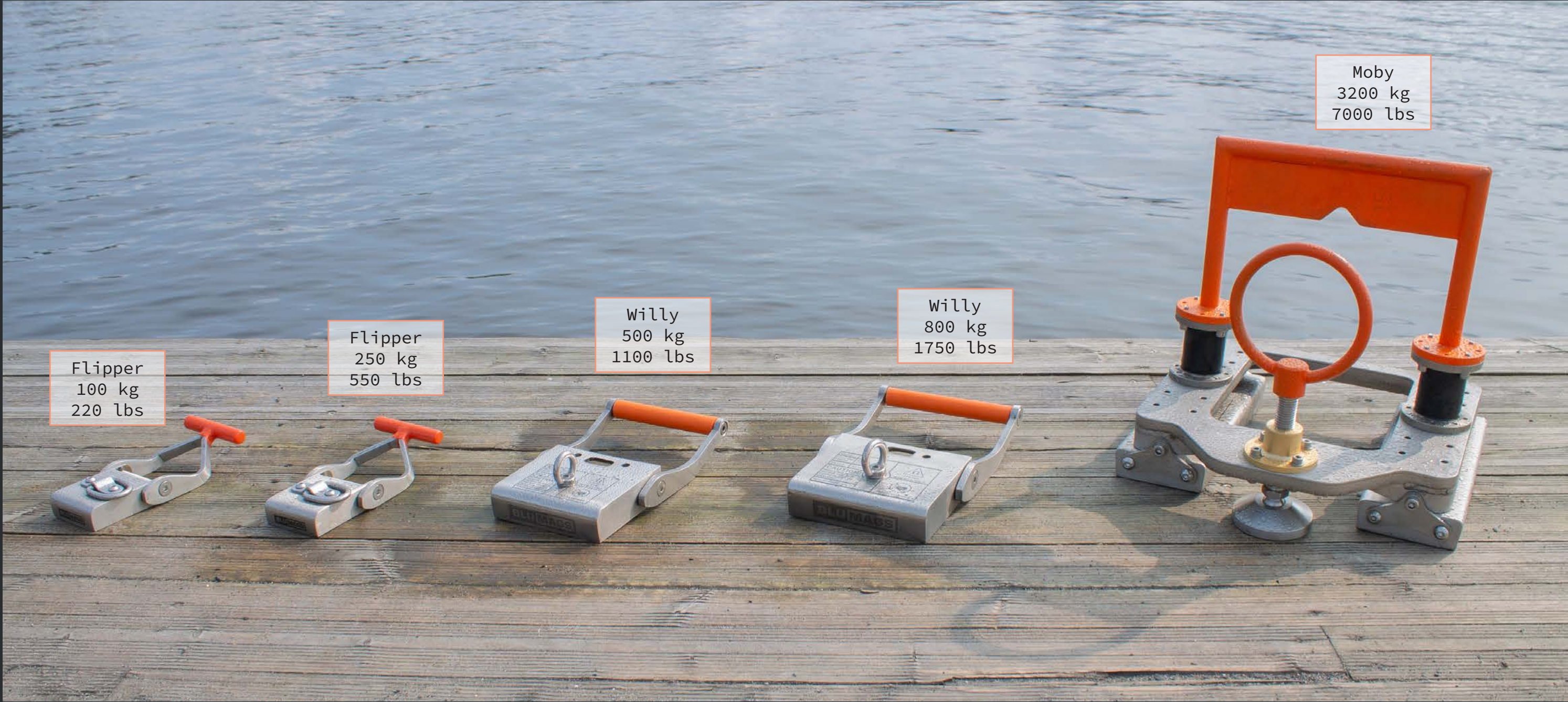
We provide supreme corrosion protection by encapsulating the magnetic core in a Ni-Cu-Ni coating, and a strong and thick epoxy layer on top of that. In addition, the housing and all the fasteners are made of stainless steel, ideal for underwater use.

Powerful

At the heart of our products is the world's most powerful magnetic material - Neodymium. The cores are arranged in a sandwich configuration, outperforming the more common pot magnets in terms of magnetic field depth, effectively overcoming paint, rust and uneven steel surfaces.

Multifunctional

Any piece of equipment can be firmly mounted directly onto the magnet. The rigging point can be easily removed and replaced by your own equipment. The Flipper models provide two threaded holes, while the Willy models come with three clearance holes.



TACTICAL EDITIONS

Some users of marine magnets, such as the military, security forces, and law enforcement, may not want to attract more attention than necessary. For that reason, we have launched Tactical editions of all our handheld magnets, separated from the standard editions by a matte black powder coating and a black rubber handle. This feature reduces reflectivity significantly compared to the standard magnets, which are uncoated.

Like our standard editions, the black-coated Tactical magnets are crafted from stainless steel housings with a powerful neodymium core. They range in holding force from 100 kg to 800 kg (220 lbs to 1750 lbs) and are delivered in a slim and convenient IP67-rated carrying case with inbuilt magnetic shielding.



LONG-LIFE MAGNETS

Blumags have supplied several customers with tailored magnets for extreme longevity. These long-life magnets feature improved metal alloys (such as super duplex) and assembly design, protecting the magnetic core from exposure to seawater. There is a cost-benefit aspect to such a design, because what protects the core, also reduces the magnetic strength, requiring larger magnets to achieve the same strength. But for magnets that must last for decades under water, it's worth the extra initial cost.

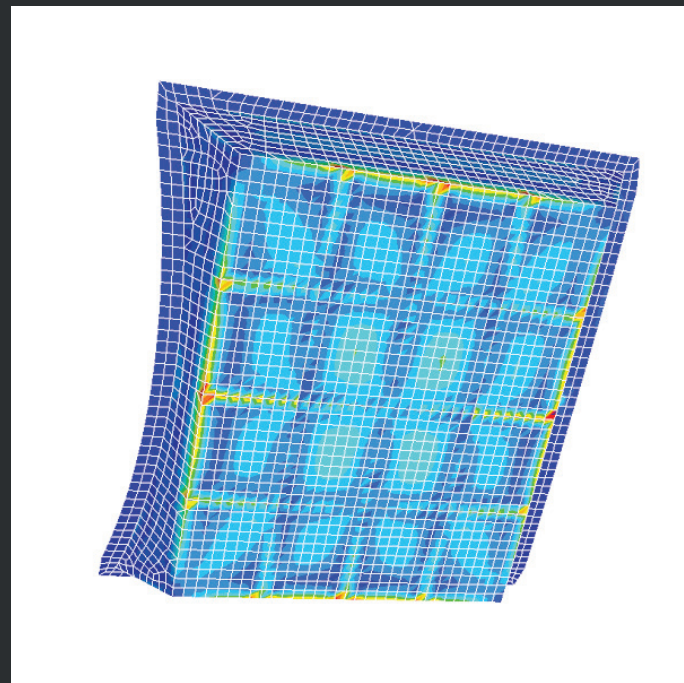
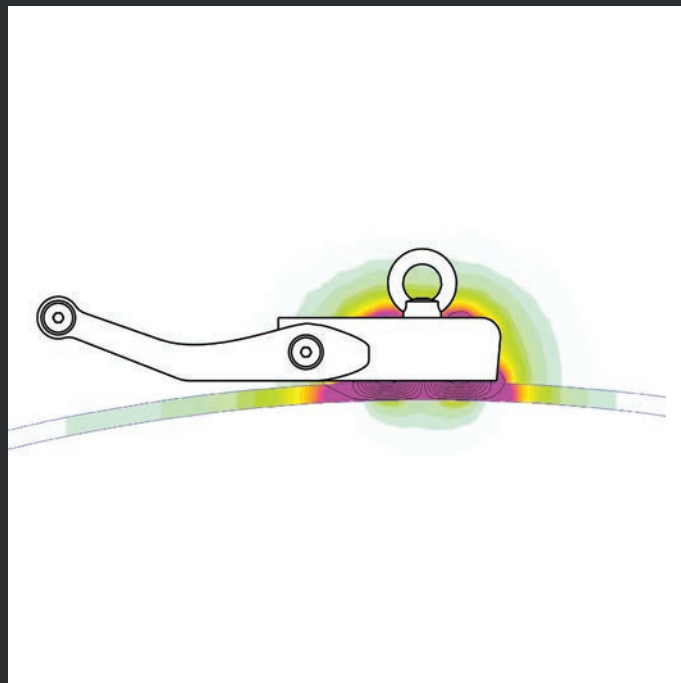
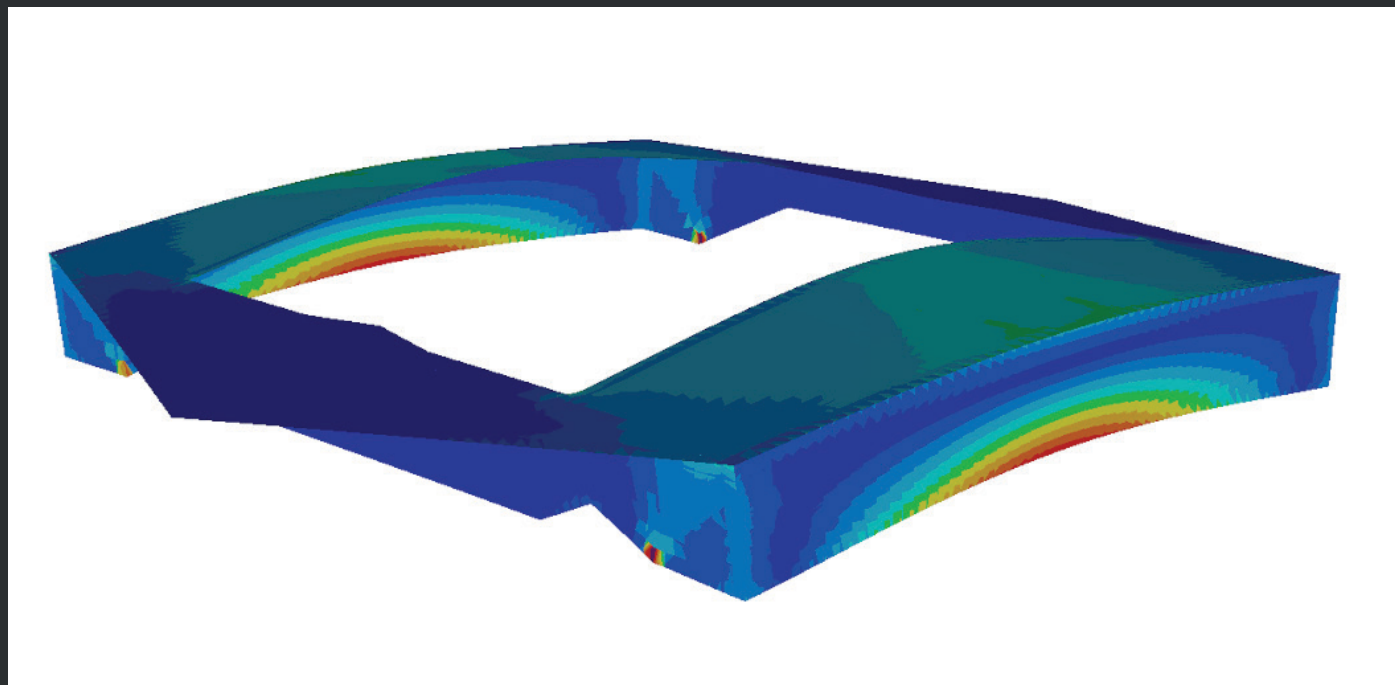
Typical applications include mooring line monitoring, offshore wind farm sensors, subsea transducers, wreck monitoring and many others.

Apart from housing material, we can also customize the top plate design to seamlessly integrate the magnet into the customer's tools.



ENDLESS POSSIBILITIES

We are devoted to R&D. Just like we continuously improve our standard designs and extend our portfolio with new products, we are also happy to assist you with engineering and custom design for your specific project. We provide expertise in product design, magnet technology, subsea technology, FEM analyses and engineering with marine applications.



ENDORSEMENTS

Don't take our word for it. Hear what our customers have to say about our products. Here are some examples of testimonials from around the world.

“ We use magnets mainly to moor to ships stopped at sea. I tested the magnets in various conditions and I must say that the Willy 800 is excellent. In calm sea conditions and currents of 3-4 kn the boats (13 m and 17 m in length) do not move even with short ropes. And with rough sea conditions up to 1-1.5 m of short wave, giving 20 m of rope, it manages to keep a 13 m pilot boat moored.

And above all at the moment there is no sign of corrosion.

Paolo Ciappini
Ciappini Trasporti Marittimi
Italy

“ The Willy 1750 lbs (800 kg) is by far the best diving magnet on the market.

Jordan Moreno
Phoenix International
USA

“ Virtually everything you do under water becomes easier with Blumags. These magnets make an essential part of a diver's toolkit.

Dag Ammerud
Freelance diver and ROV pilot
Norway

“ I have been using my new magnet everyday. This magnet excels in most every aspect compared to other similar products I have used. I'm working with two other dive companies, and I will be spreading the word of this superior product.

Robson Portes
Commercial Divers Plus
USA

“ As promised, we managed to test the magnets and the results are very satisfactory. We will be in touch in the near future with other orders for sure, and we will spread the word locally to promote your good product.

Nathaniel Buhagiar
Zeta Energy
Malta



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