



## Product name : Holding magnet for diver 198x160x32 / N

### PERFORMANCE PARAMETERS

Manufacturer	Enes Magnesy
Length	198 [mm]
Width	160 [mm]
Height	32 [mm]
overall height together with eye	77 [mm]
Magnet type	Neodymium
Maximal hoisting capacity	500 [kg]
Maximum working temperature	≤ 80 °[C]
Housing	stainless steel, AISI 304 / EN 1.4301, approved for contact with food
water-resistant	yes
Waterproof	class IP67
with easier detachment	yes
handling mode	ręczny
With the eye	yes
Weight	9.35 [kg]

**The maximum slide force: above the 105 [kG].**

**The maximum allowed pull force by perpendicular acting of detaching force: approx. 500 [kG].**

**Holding magnets for divers are used for suspension loads on steel vertical walls e.g. ship's boards. By dint of the hermetically closed in a housing made of acid-proof steel the holding magnet is seawater-proof. The 165 mm long side-lever (handle) make the separation from attracted steel element easy.**

In the holding magnet sintered neodymium magnets (NdFeB) were used. The maximal working temperature for holding magnets involving neodymium magnets is **80°C**.

The pull force given refers to hoisting capacity measured in optimal conditions, by using as a backing plate a sheet made of low-carbon steel, 30 [mm] thick, of smooth surface and with the force acting perpendicularly, in room temperature.

**Notice:** the pull force given should be treated as only a comparative value. An actual pull force depends on the following factors:

- air gap (a distance) between holding magnet and an attracted element
- material, of which an attracted element is made (the higher carbon proportion in steel, the smaller pull force)
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surface of an attracted element (the smoother the surface, bigger the pull force)

- direction of acting of detaching force (the biggest pull force is obtained with perpendicular acting of detaching force)
- thickness of an attracted element (the element cannot be too thin, because in such case part of magnetic flux is not used for closing of a magnetic circuit)
- working temperature.

We generally recommend individual checking of the holding magnet in any specific working conditions.

Weight of the holding magnet: ~9,4 [kg]

## TECHNICAL DRAWING

