nes

## Product name : Holding magnet with facilitated separation $230 \times 50 \times 30$ / N PERFORMANCE PARAMETERS

| Manufacturer | Enes Magnesy |
| :--- | :--- |
| Length | $230[\mathrm{~mm}]$ |
| Width | $50[\mathrm{~mm}]$ |
| Height | $30[\mathrm{~mm}]$ |
| handle length | $215[\mathrm{~mm}]$ |
| Thread type | wewnętrzny, M8 |
| threads quantity | 3 |
| Magnet type | Neodymium |
| Maximal hoisting capacity | $600[\mathrm{~kg}]$ |
| recommended maximum thickness of the metal sheet | $10[\mathrm{~mm}]$ |
| Coating | Zinc (Zn) |
| Maximum working temperature | $\leq 80^{\circ}[\mathrm{C}]$ |
| with easier detachment | yes |
| handling mode | ręczny |
| With handle | yes |
| Weight | $2.84[\mathrm{~kg}]$ |

## The maximum pull force: ~600 [kg]

## Three threaded holes M8.

Length of handle: ~215 [mm].
Total widht with handle: $\sim \mathbf{8 7}$ [mm].

Holding magnet with facilitated separation is used for secure of molds on vibro-tables during production of concrete elements.

In the holding magnet sintered neodymium magnets (NdFeB) were used. The maximum working temperature for holding magnets involving neodymium magnets is $\mathbf{8 0}$ o[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, $10[\mathrm{~mm}]$ 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)
- 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: $\sim 2,8[\mathrm{~kg}]$

