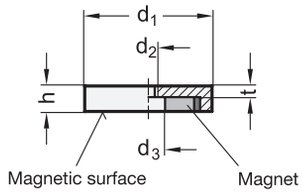
GN 50.5 | Retaining Magnets

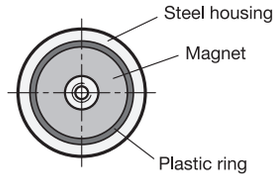
Neodymium, Iron, Boron (NdFeB), Housing Steel, with Tapped Hole

JW WINCO® A Ganter Company

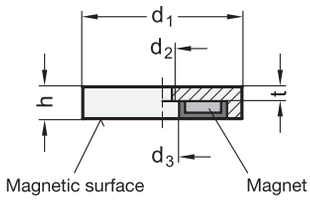
$d_1 \leq 47$

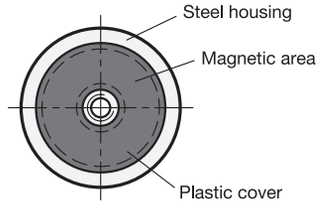


View of magnetic surface

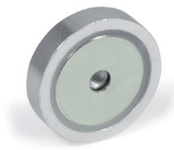


$d_1 \geq 50$





Metric



Metric table

Dimensions in: millimeters - *inches*

d_1	d_2 Thread	d_3	h	t Thread depth	Nominal magnetic forces
10 ±0.1 *0.394 ±0.004*	M 3	-	4.5 ±0.1 *0.177 ±0.004*	4.5 *0.18*	19 N *4.27 lbf*
13 ±0.1 *0.512 ±0.004*	M 3	-	4.5 ±0.1 *0.177 ±0.004*	4.5 *0.18*	40 N *8.99 lbf*
16 ±0.1 *0.630 ±0.004*	M 3	-	4.5 ±0.1 *0.177 ±0.004*	4.5 *0.18*	75 N *16.86 lbf*
20 ±0.1 *0.787 ±0.004*	M 4	-	6 ±0.1 *0.236 ±0.004*	6 *0.24*	105 N *23.60 lbf*
25 ±0.1 *0.984 ±0.004*	M 4	4.5 *0.18*	7 ±0.2 *0.276 ±0.008*	5 *0.20*	160 N *35.97 lbf*
32 ±0.1 *1.260 ±0.004*	M 5	5.5 *0.22*	7 ±0.2 *0.276 ±0.008*	5 *0.20*	330 N *74.19 lbf*
40 ±0.1 *1.575 ±0.004*	M 5	10.5 *0.41*	8 ±0.2 *0.315 ±0.008*	6 *0.24*	500 N *112 lbf*
47 $^{+0.2}_{-0.1}$ *1.850* $^{+0.008}_{-0.004}$	M 8	-	9.2 $^{+0.2}_{-0.3}$ *0.362* $^{+0.008}_{-0.012}$	9.2 *0.36*	740 N *166 lbf*
50 ±0.1 *1.969 ±0.004*	M 8	11 *0.43*	10 ±0.2 *0.394 ±0.008*	5.5 *0.22*	800 N *180 lbf*
63 ±0.1 *2.480 ±0.004*	M 10	11.5 *0.45*	14 ±0.2 *0.551 ±0.008*	8.5 *0.33*	1100 N *247 lbf*
75 $^{-0.3}_{-0.5}$ *2.953* $^{-0.012}_{-0.020}$	M 10	11.7 *0.46*	15 ±0.2 *0.591 ±0.008*	6.5 *0.26*	1750 N *393 lbf*

Specification

- Magnet material
  NdFeB **ND**
  Neodymium, iron, boron
  Temperature resistant up to 176 °F (80° C)
- Housing
  Steel, zinc plated
- Plastic cover
  Polyamide (PA)
- *Plastic Characteristics → page 2135*
- RoHS compliant

Accessory

- Magnet holding disks GN 70 → *page 2029*
- Self-adhesive disks GN 70.1 → *page 2030*
- Rubber caps GN 70.2 → *page 2031*

Information

GN 50.5 retaining magnets, in combination with the steel housing and the plastic ring or plastic cover, form a system that shields and strengthens the magnet for optimal transmission of the magnetic flux onto the magnetic surface.

For diameter $d_1 \geq 50$ mm, the magnetic surface is provided with a full-surface plastic cover.

To ensure that the magnetic properties are not negatively impaired, the mounting screws should be made of a non-magnetic material, such as stainless steel, brass or plastic.

see also...

- *More Information on Retaining Magnets → page 1990*
- *Retaining Magnets GN 51.5 (with Tapped Hole) → page 2006*

How to order		
GN 50.5-ND-40	1	Magnet material
	2	Diameter d_1