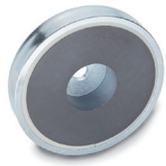
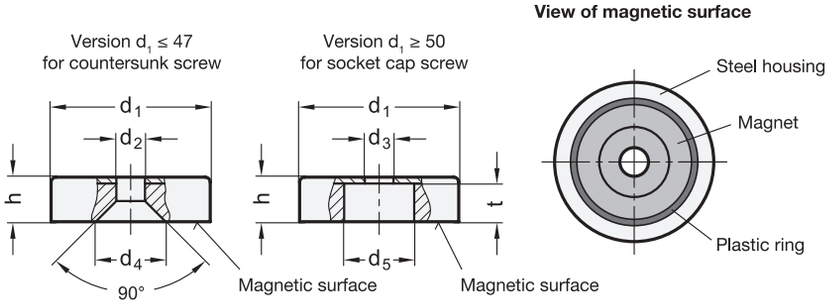
GN 50.4 | Retaining Magnets

Hard Ferrite / Samarium-Cobalt / Neodymium-Iron-Boron, Housing Steel, with Plain Hole

JW WINCO® A Ganter Company

Metric





Specification

- Magnet materials
  - Hard ferrite **HF**
    Temperature resistant up to 392 °F (200 °C)
  - NdFeB **ND**
    Neodymium, iron, boron
    Temperature resistant up to 176 °F (80 °C)
  - SmCo **SC**
    Samarium, cobalt
    Temperature resistant up to 536 °F (280 °C)
- Housing
  Steel, zinc plated
- 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 50.4 retaining magnets, in combination with the steel housing and the plastic ring, form a system that shields and strengthens the magnet for optimal transmission of the magnetic flux onto the magnetic surface.

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 50.45 (Stainless Steel, with Plain Hole) → page 2003*
- *Raw Magnets GN 55.1 (with Plain Hole) → page 2027*
- *Retaining Magnets GN 51.4 (Steel, with Plain Hole, with Rubber Jacket) → page 2007*

How to order

GN 50.4-SC-40-8-5.5

1	Magnet material
2	Diameter d_1
3	Height h
4	Bore d_2 (Bore d_3)

Metric table

Dimensions in: millimeters - *inches*

[2] d_1	Tolerances		[3] h	Tolerances			[4] d_2		[4] d_3	d_4		d_5	t	Nominal magnetic forces		
	HF	ND / SC		HF	ND	SC	HF	ND / SC	HF	HF	ND / SC	HF	HF	**HF**	**ND**	**SC**
10 *0.39*	-	±0.1	4.5 *0.18*	-	±0.1	-	-	2.6 *0.10*	-	-	5.2 *0.20*	-	-	-	19 N *4.27 lbf*	-
13 *0.51*	-	±0.1	4.5 *0.18*	-	±0.1	-	-	3.5 *0.14*	-	-	6.6 *0.26*	-	-	-	40 N *8.99 lbf*	-
16 *0.63*	±0.1	±0.1	4.5 *0.18*	+0.2/-0.1	±0.1	±0.1	3.5 *0.14*	3.5 *0.14*	-	7 *0.28*	6.6 *0.26*	-	-	14 N *3.15 lbf*	75 N *16.86 lbf*	57 N *12.81 lbf*
20 *0.79*	±0.1	±0.1	6 *0.24*	+0.2/-0.1	±0.1	±0.1	4.3 *0.17*	4.5 *0.18*	-	10 *0.39*	9.3 *0.34*	-	-	27 N *6.07 lbf*	105 N *23.60 lbf*	81 N *18.21 lbf*
25 *0.98*	±0.1	±0.1	7 *0.28*	+0.3/-0.2	±0.2	±0.1	5.5 *0.22*	4.5 *0.18*	-	12 *0.47*	9 *0.35*	-	-	36 N *8.09 lbf*	160 N *35.97 lbf*	105 N *23.60 lbf*
32 *1.26*	±0.1	±0.1	7 *0.28*	+0.3/-0.2	±0.2	±0.1	5.5 *0.22*	5.5 *0.22*	-	12 *0.47*	11 *0.43*	-	-	72 N *16.19 lbf*	310 N *69.69 lbf*	235 N *52.83 lbf*
40 *1.57*	+0.2/-0.1	±0.1	8 *0.31*	+0.4/-0.2	±0.2	±0.1	5.5 *0.22*	5.5 *0.22*	-	13 *0.51*	10.3 *0.41*	-	-	90 N *20.23 lbf*	500 N *112 lbf*	540 N *121 lbf*
47 *1.85*	-	+0.2/-0.1	9.2 *0.36*	-	±0.3	-	-	8.5 *0.33*	-	-	17.3 *0.68*	-	-	-	740 N *166 lbf*	-
50 *1.97*	+0.2/-0.1	-	10 *0.39*	+0.5/-0.2	-	-	-	-	8.5 *0.33*	-	-	22 *0.87*	8.5 *0.33*	180 N *40.47 lbf*	-	-
57 *2.24*	+0.2/-0.1	-	11 *0.43*	+0.5/-0.2	-	-	-	-	6.5 *0.26*	-	-	24 *0.94*	9 *0.35*	230 N *51.71 lbf*	-	-
63 *2.48*	+0.3/-0.1	-	14 *0.55*	+0.5/-0.2	-	-	-	-	6.5 *0.26*	-	-	24 *0.94*	12 *0.47*	290 N *65.19 lbf*	-	-
80 *3.15*	+0.3/-0.1	-	10 *0.39*	+0.5/-0.2	-	-	-	-	6.5 *0.26*	-	-	32 *1.26*	8 *0.31*	450 N *101 lbf*	-	-
80 *3.15*	+0.3/-0.1	-	18 *0.71*	+0.5/-0.2	-	-	-	-	6.5 *0.26*	-	-	11.5 *0.45*	15 *0.59*	540 N *121 lbf*	-	-
83 *3.27*	+0.3/-0.1	-	18 *0.71*	+0.5/-0.2	-	-	-	-	10.5 *0.41*	-	-	32 *1.26*	15 *0.59*	600 N *135 lbf*	-	-
100 *3.94*	+0.5/-0.1	-	22 *0.87*	+0.5/-0.2	-	-	-	-	10.5 *0.41*	-	-	34 *1.34*	18 *0.71*	680 N *153 lbf*	-	-