
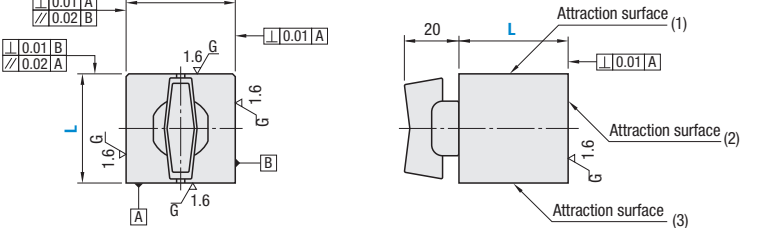


# Magnetic Block with Three-Sided Attraction / Leveling Bolt with Magnet



**Magnetic Block with Three-Sided Attraction**

Component	Material	Surface Treatment
Main Body	1018 Carbon Steel Equivalent	Electroless Nickel Plating
Magnets	Neodymium Magnet	—
Knob	304 Stainless Steel	—




① There is a Brass Separator located in the center.

Part Number	Type	L	Attraction Force		Mass (g)
			① ③ N (kgf)	② N (kgf)	
HXBK		40	235 [24]	78 [8]	528
		60	490 [50]	147 [15]	1683

- Features**
- Attraction surfaces ①-③ can be turned ON / OFF by turning the knob.
  - Knob is made of sturdy stainless steel.
  - Enhances the assembly and machining efficiency.

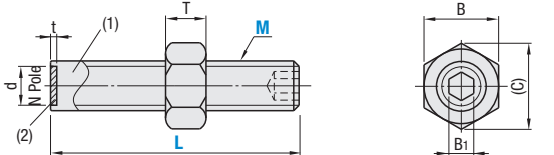
① Attraction force is for reference only. When multiple sides of magnetic material are attracted at same time, Attraction Force may decrease.

**Part Number Example**  
 Part Number: **HXBK40**



**Leveling Bolt with Magnet**

Type	Type		(1)		(2)		Nut Material	Heat-Resistant Temperature
	Standard Type	High Strength Type	Material	Surface Treatment	Material	Surface Treatment		
HXBB	—	—	4137 Alloy Steel	Black Anodize	Neodymium Magnet	Nickel Plating	SGD3(JIS) Carbon Steel	80°C
HXBN	PHXBN	—		Electroless Nickel Plating				



Part Number	Type	M	L	Attraction Force N [kgf]		Surface Flux Density Gauss [G]		t				d		
				Standard Type	High Strength Type	Standard Type	High Strength Type	B	B <sub>1</sub>	(C)	T		Standard	High Strength
PHXBN		4	15	—	0.5 (0.05)	—	1800-2100	7	2	8.1	3.2	—	3	2
		5	15	—	1 (0.1)	—	2700-3000	8	2.5	9.2	4	—	4	2.5
Standard Type		6	*15 *20 30 40	1.4 (0.15)	2 (0.2)	2800-2900	2700-3000	10	3	11.5	5	—	—	3
	HXBB	8	*15 *20 30 40 50	4.9 (0.5)	6.9 (0.7)	3000-3300	3000-3300	13	4	15	6.5	2	—	5
HXBN	10	—	30 40 50 60	7.8 (0.8)	—	—	—	17	5	19.6	8	—	—	6
High Strength Type		12	30 40 50 60	10.7 (1.1)	—	2600-2900	—	19	6	21.9	10	1.5	—	7
	*PHXBN	16	40 50 60 80	24.5 (2.5)	—	3200-3400	—	24	8	27.7	13	2	—	9.5


① High Strength Type (PHXBN) is available with \* marked sizes.  
 ② Attraction force and surface magnetic flux density are for reference only.

**Part Number Example**  
 Part Number: **HXBB6 - L**  
 Example: **HXBB6 - 30**


# Electromagnet Holders

Standard / Low Profile / Super Low Profile


Standard / Low Profile / Super Low Profile Type




Tapped Through Hole Type



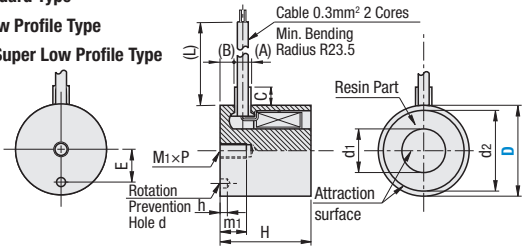
Rectangle



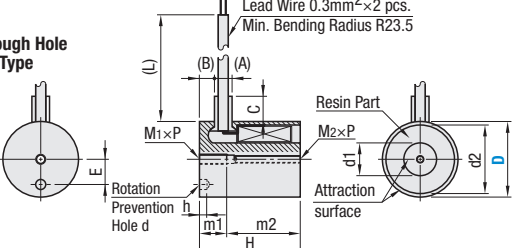
Axial Cable



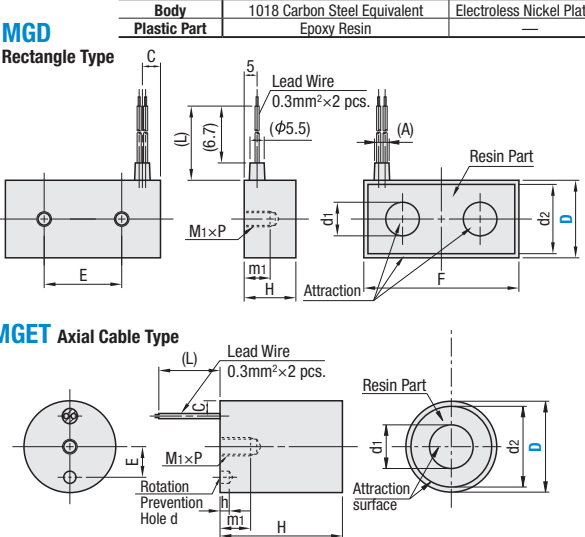
**MGE Standard Type**  
**MGES Low Profile Type**  
**SMGES Super Low Profile Type**



**MGX Tapped Through Hole Standard Type**  
**MGXS Tapped Through Hole Low Profile Type**



**MGD Rectangle Type**  
**MGET Axial Cable Type**



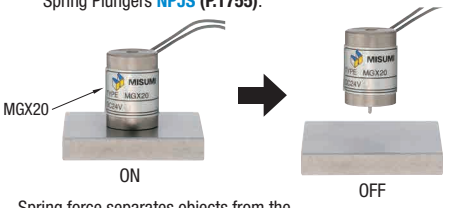
Part Number	Type	D	H	d <sub>1</sub>	d <sub>2</sub>	(A)	(B)	C*	M <sub>1</sub> x P	M <sub>2</sub> x P	Effective Screw Depth		Rotation Prevention Hole		E	(L)	F	Voltage (V)	Current (A)	Max. Attraction Force N (kgf)	Mass (g)	
											m <sub>1</sub>	m <sub>2</sub>	d	h								
MGE		20	28	8	17.4	5.5	3.25	4 (3.25)	4 x 0.7	—	8	—	—	—	—	—	—	—	24	0.06	28 (2.8)	70
		30	40	13	27	—	6	10	6 x 1.0	—	12	—	4	3	10	700	—	—	—	0.17	180 (18)	200
		40	—	16	35	7.2	—	(3.95)	8 x 1.25	—	15	—	—	—	15	—	—	—	—	0.24	300 (30)	350
	MGET (*only)	50	50	24	44.4	—	4.5	—	10 x 1.5	—	20	—	5	4	18	—	—	—	90	0.11	600 (60)	700
MGES		20	20	6	17	—	1.5	12	4 x 0.7	—	5	—	—	—	—	—	—	—	—	0.20	1,200 (120)	1200
		30	—	13	27	5.5	2	15	6 x 1.0	—	10	—	—	—	10	200	—	—	—	0.07	10 (1)	40
		40	—	17	34	—	—	—	—	—	12	—	3	2	15	—	—	—	24	0.08	100 (10)	80
		50	25	24	42	—	—	—	8 x 1.25	—	18	—	—	—	18	—	—	—	—	0.09	220 (22)	150
MGX		20	28	8	17.4	—	3.5	4 (4.5)	4 x 0.7	3 x 0.5	8	16.3	—	—	—	—	—	—	—	0.10	500 (50)	300
		30	40	13	27.2	7.2	6	10 (5)	6 x 1.0	4 x 0.7	12	22.6	4	3	10	700	—	—	24	0.17	108 (10.8)	200
MGXS		20	20	6	17	5	1.5	12	4 x 0.7	3 x 0.5	5	11.3	—	—	—	200	—	—	—	0.07	6 (0.6)	40
		30	—	13	27	—	2	15	6 x 1.0	4 x 0.7	10	4.6	3	2	10	—	—	—	—	0.08	60 (6)	80
SMGES		30	15	11.5	27.5	5.5	1.3	15	6 x 1.0	—	8	—	3	2	10	200	—	—	24	0.06	50 (5)	60
		20	—	6	17.6	—	—	—	—	—	5	—	—	—	—	—	—	—	—	0.13	40 (4)	100
MGD		30	—	13	26.8	5.5	—	7	6 x 1.0	—	10	—	—	—	30	700	—	—	24	0.17	150 (15)	200

① Maximum attraction force is for subject material of 1018 Carbon Steel Equivalent (polished surface, 50mm thick plate). \*Dimensions in ( ) are for MGET.  
 ② See the page on the right for features, use conditions and cautions on Electromagnet Holders.

**Part Number Example**  
 Part Number: **MGD20**  
**MGX20**  
**MGET20**  
**MGE20**

**Application Example**

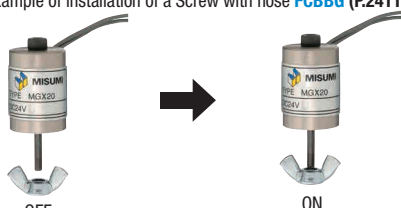
Countermeasure for Residual Magnetism  
 Spring Plungers **NPJS (P.1755)**.



ON → OFF

Spring force separates objects from the magnet stuck by residual magnetism.

**More Options**  
 Example of installation of a Screw with nose **FCBBG (P.2411)**



OFF → ON

Can magnetize Screw with nose and pickup objects with the end.