

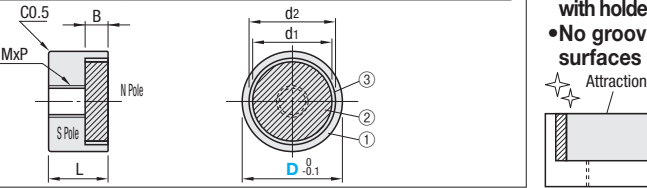
# Magnets with Holders

## High Strength Flat Type



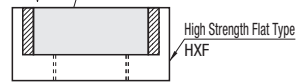
RoHS10

Part Number	①		②		Heat Resistant Temperature	③		Polarity	
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	Front	Back
HXF	SUM23 Equivalent	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C	Brass (C3603BD)	N	S	



## Features

- Highest attraction force compared with other magnets with holders of the same size.
  - No grooves or bumps on surfaces to collect dust.
- Attraction surface is flat.



Part Number Type	D	L	MxP (Coarse)	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	d1	d2	B	Unit Price		
									1 ~ 3 pc(s)	4~9	10~49
HXF	4	5	M2x0.4	1.5 (0.1)	2400~2800	2	3	2.5			
	5			2.0 (0.2)	2600~3000	2.5	3.5				
	6			5.9 (0.6)	2100~3000	4	5				
	8	8	M3x0.5	9.8 (1.0)	2300~3300	6	7				
	10			20.6 (2.1)	2500~3600	8	9				
	13			45.1 (4.6)	2500~3600	10	11				
	16			89.2 (9.1)	3000~4400	12	14				
20	13	M5x0.8	128.5 (13.1)	3200~4600	15	18					
25			225.5 (23.0)	3200~4600	18	23					

Attraction force and surface magnetic flux density are for reference only.

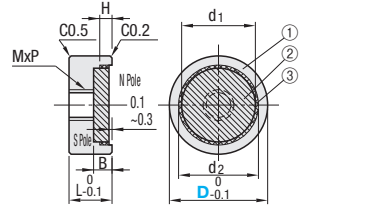
Ordering Example	Part Number
	HXF10

## Strong Type



RoHS10

Part Number	①		②		Heat Resistant Temperature	③		Polarity	
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	Front	Back
HXU	SUM24L	-	Samarium-Cobalt Magnet	-	80°C	Brass (C3603BD)	N	S	
HXUM	-	Electroless Nickel Plating	-	-					
HXUS	SUS416	-	-	-					
HXUMN	SUM24L	Electroless Nickel Plating	Neodymium Magnet	-	150°C	Nickel Plating	N	S	
HXUSN	SUS416	-	Magnet	-					
HXUMNH	SUM22	Electroless Nickel Plating	Heat-resistant Neodymium Magnet	-					



For HXUMNH, heat-resistant adhesive is applied.

Part Number Type	D	L	MxP (Coarse)	HXU, HXUM, HXUS		HXUMN, HXUSN, HXUMNH		d1	d2	B	H	Unit Price					
				Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]					HXU	HXUM	HXUS	HXUMN	HXUSN	HXUMNH
(Samarium-Cobalt Magnet)	4	5	M2x0.4	-	-	0.784 (0.08)	3100~3300	2.5	3	1	0.5	-	-	-	-	-	
	5			-	-	1.37 (0.14)	3100~3300	3.5	4	-	-	-	-	-	-		
	6			3.9 (0.4)	2100~2600	4.9 (0.5)	3100~3300	4	5	-	-	-	-	-			
(Neodymium Magnet)	8	8	M3x0.5	5.9 (0.6)	2400~2600	8.8 (0.9)	3300~3600	5	6	2	1.6	-	-	-	-		
	10			14.7 (1.5)	2700~2900	19.6 (2.0)	3800~4100	7	8	3	2.1	-	-	-	-		
	13			34.3 (3.5)	2800~3100	44.1 (4.5)	4000~4300	9.5	11	4	3.1	-	-	-	-		
(Heat-resistant Neodymium Magnet)	16	10	M4x0.7	58.8 (6.0)	2900~3300	63.7 (6.5)	4000~4300	12.5	14	4	3.1	-	-	-			
	20			98.1 (10.0)	2900~3300	107.9 (11.0)	4100~4400	16.5	18	6	5.1	-	-	-			
	25			137.3 (14.0)	2900~3400	176.5 (18.0)	4500~4800	21.5	23	-	-	-	-				

Attraction force and surface magnetic flux density are for reference only.

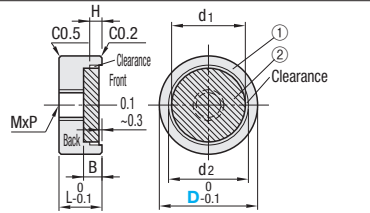
Ordering Example	Part Number
	HXUMN10

## Thin Type



RoHS10

Part Number	①		②		Heat Resistant Temperature	Polarity	
	Material	Surface Treatment	Material	Surface Treatment		Front	Back
HX	-	-	Samarium-Cobalt Magnet	-	80°C	N	S
HXM	SUM24L	Electroless Nickel Plating	-	-			
HXMN	-	-	Neodymium Magnet	-			
HXMN-S	SUM24L	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	150°C	S	N
HXSNS	SUS416	-	Magnet	-			
HXMNH	SUM22	Electroless Nickel Plating	Heat-resistant Neodymium Magnet	-			



For HXMNH, heat-resistant adhesive is applied.

Part Number Type	D	L	MxP (Coarse)	HX, HXM		HXMN, HXMN-S, HXSNS, HXMNH		d1	d2	B	H	Unit Price					
				Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]					HX	HXM	HXMN	HXMN-S	HXSNS	HXMNH
(Samarium-Cobalt Magnet)	4	4	M2x0.4	-	-	0.62 (0.06)	2700~3000	2.5	3	1	0.5	-	-	-	-	-	
	5			-	-	1.27 (0.13)	2700~3000	3.5	4	-	-	-	-	-	-		
	6			2.9 (0.3)	2100~2600	3.9 (0.4)	2700~3000	4	5	-	-	-	-	-	-		
(Neodymium Magnet)	8	6	M3x0.5	3.9 (0.4)	2200~2600	6.9 (0.7)	2700~3000	5	6	2	1.5	-	-	-	-		
	10			9.8 (1.0)	2100~2300	19.6 (2.0)	2700~3000	7	8	1.5	1	-	-	-	-		
	13			29.4 (3.0)	2200~2400	44.1 (4.5)	3000~3400	9.5	11	2	1.5	-	-	-	-		
(Heat-resistant Neodymium Magnet)	16	8	M4x0.7	49.0 (5.0)	2200~2500	88.3 (9.0)	3000~3400	12.5	14	2	1.5	-	-	-	-		
	20			88.3 (9.0)	2300~2600	127.5 (13.0)	3300~3500	16.5	18	3	2.5	-	-	-			
	25			127.5 (13.0)	2300~2600	196.1 (20.0)	3000~3400	21.5	23	-	-	-	-				

Attraction force and surface magnetic flux density are for reference only.

Ordering Example	Part Number
	HXMN20 HXMN-S20

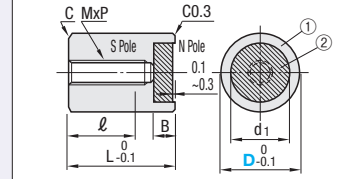
## Standard Type



RoHS10

Part Number	①		②		Heat Resistant Temperature	Polarity	
	Material	Surface Treatment	Material	Surface Treatment		Front	Back
MGN	SUM24L	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C	N	S
MGNH	SUS416	-	Heat-resistant Neodymium Magnet	-	150°C	-	-

For MGNH, heat-resistant adhesive is applied.

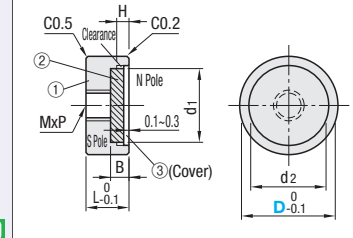


## Cap Type



RoHS10

Part Number	①		②		Heat Resistant Temperature
	Material	Surface Treatment	Material	Surface Treatment	
HXX	SUM24L	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C



Part Number Type	D	L	MxP	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	d1	B	C	ℓ	Unit Price	
										MGN	MGNH
(Neodymium Magnet)	6	10	3x0.5	2.9 (0.3)	3000~3200	4.0	2.0	0.3	6	-	-
	8			5.8 (0.6)	3500~3700	5.0					
	10			9.8 (1.0)	3400~3600	6.0					
	13			15.6 (1.6)	3200~3400	7.0	1.5				
(Heat-resistant Neodymium Magnet)	16	20	6x1.0	36.2 (3.7)	3500~3700	9.5	2.0	1.0	12	-	-
	20			58.8 (6.0)	3100~3300	12.5					
	25			112.7 (11.5)	3500~3700	16.5					
	28			196.1 (20.0)	3300~3500	18.5	3.0	1.5	18		

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Part Number Type	D	L	MxP	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	d1	d2	B	H	Unit Price	
										HXX	HXXH
HXX	8	6	3x0.5	4.1 (0.42)	1300~1500	5	6	2.0	1.5	-	-
	10			11.8 (1.2)	1900~2100	7	8	1.5	1.0		
	13			26.5 (2.7)	2300~2500	9.5	11	2.0	1.5		
	16			52.6 (5.4)	2300~2500	12.5	14	-	-		

The cap may come off if strong impacts are applied, or magnets directly come in contact with each other.



Example

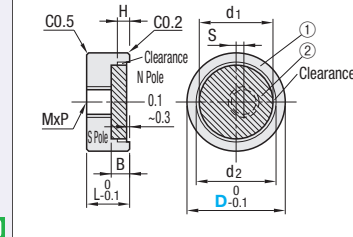


## Eccentric Mount Type



RoHS10

Part Number	①		②		Heat Resistant Temperature
	Material	Surface Treatment	Material	Surface Treatment	
HXE	SUM22	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C

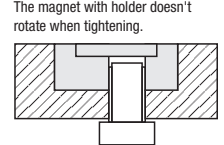


Part Number Type	D	L	MxP	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	d1	d2	B	H	S	Unit Price	
											HXE	HXEH
HXE	8	6	3x0.5	6.9 (0.7)	2700~3000	5	6	2.0	1.5	0.5	-	-
	10			19.6 (2.0)	2700~3000	7	8	1.5	1.0			
	13			44.1 (4.5)	3000~3400	9.5	11	2.0	1.5			
	16			88.3 (9.0)	3000~3400	12.5	14	-	-			

Attraction force and surface magnetic flux density are for reference only.



Example

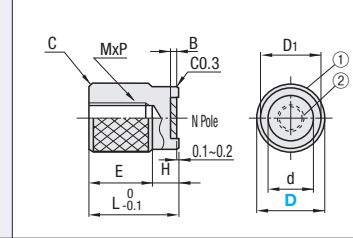


## Knurled Type



RoHS10

Part Number	①		②		Heat Resistant Temperature
	Material	Surface Treatment	Material	Surface Treatment	
MGR	SUM24L	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C



Part Number Type	D	L	MxP	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	d	D1	B	C	H	E	Unit Price	
												MGR	MGRH
MGR	10	15	5x0.8	9.8 (1.0)	3400~3600	6.0	9	2.0	0.5	5	10	-	-
	13			15.7 (1.6)	3500~3700	7.0	11	1.5					
	16			36.3 (3.7)	3500~3700	9.5	14	2.0	1.0	6	14		
	20			58.8 (6.0)	3400~3700	12.5	18	3.0	1.5	8	22		
	25			117.7 (12.0)	3500~3900	16.5	23	-	-	-	-		
28	196.1 (20.0)	3500~3900	18.5	26	-	-	-	-					

Attraction force and surface magnetic flux density are for reference only.



Example

Ordering Example	Part Number
	HXE10