

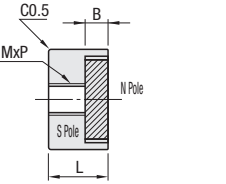
# Magnets with Holders

## High Strength Flat Type



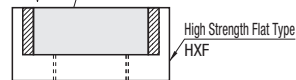
RoHS10

Part Number	①		②		Heat Resistant Temperature	③		Polarity
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	
HXF	EN 1.0736 Equiv.	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C	Brass (EN CW640N Equiv.)	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		Volume Discount Rate	
									1 ~ 3 pc(s).	4~9	10~49	50~200
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	3				
	10			20.6 (2.1)	2500~3600	8	9					
	13			45.1 (4.6)	2500~3600	10	11					
	16	10	M4x0.7	89.2 (9.1)	3000~4400	12	14	4				
	20			128.5 (13.1)	3200~4600	15	18					
	25			225.5 (23.0)	3200~4600	18	23					
	20	13	M6x1.0	225.5 (23.0)	3200~4600	18	23	5				
25	225.5 (23.0)			3200~4600	18	23						

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

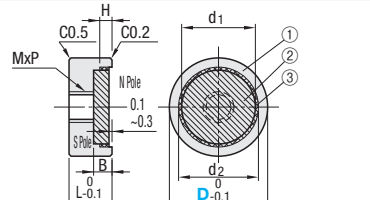
Ordering Example Part Number HXF10

## Strong Type

RoHS10



Part Number	①		②		Heat Resistant Temperature	③		Polarity
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	
HXU	EN 1.0718 Equiv.	Electroless Nickel Plating	Samarium-Cobalt Magnet	-	80°C	Brass (EN CW640N Equiv.)	N S	
HXUM	EN 1.4005 Equiv.	-	Samarium-Cobalt Magnet	-	80°C	Brass (EN CW640N Equiv.)	N S	
HXUS	EN 1.4005 Equiv.	-	Neodymium Magnet	Nickel Plating	150°C	-	N S	
HXUMN	EN 1.0718 Equiv.	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	150°C	-	N S	
HXUSN	EN 1.4005 Equiv.	-	Neodymium Magnet	Nickel Plating	150°C	-	N S	
HXUMNH	EN 1.0715 Equiv.	Electroless Nickel Plating	Heat-resistant Neodymium Magnet	-	150°C	-	N S	



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

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			-	-	-	-		
	13			34.3 (3.5)	2800~3100	44.1 (4.5)	4000~4300	9.5	11			-	-	-	-		
(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			-	-	-	-		
	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.

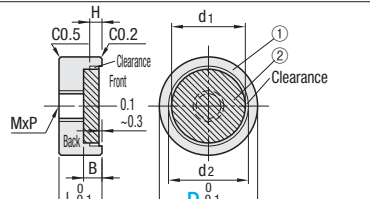
Ordering Example Part Number HXUMN10

## Thin Type

RoHS10



Part Number	①		②		Heat Resistant Temperature	③		Polarity
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	
HX	-	-	Samarium-Cobalt Magnet	-	80°C	N	S	
HXM	EN 1.0718 Equiv.	Electroless Nickel Plating	Samarium-Cobalt Magnet	-	80°C	N	S	
HXMN	EN 1.0718 Equiv.	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	150°C	S	N	
HXMN-S	EN 1.4005 Equiv.	-	Neodymium Magnet	Nickel Plating	150°C	S	N	
HXSNS	EN 1.4005 Equiv.	-	Neodymium Magnet	Nickel Plating	150°C	N	S	
HXMNH	EN 1.0715 Equiv.	Electroless Nickel Plating	Heat-resistant Neodymium Magnet	-	150°C	N	S	



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

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			-	-	-	-		
	13			29.4 (3.0)	2200~2400	44.1 (4.5)	3000~3400	9.5	11			-	-	-	-		
(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			-	-	-	-		
	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

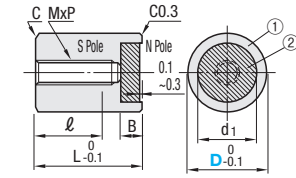
## Standard Type



RoHS10

Part Number	①		②		Heat Resistant Temperature	③		Polarity
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	
MGN	EN 1.0718 Equiv.	Electroless Nickel Plating	Neodymium Magnet	-	80°C	N	S	
MGNH	EN 1.4005 Equiv.	-	Heat-resistant Neodymium Magnet	-	150°C	N	S	

For MGNH, heat-resistant adhesive is applied.



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												
(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												

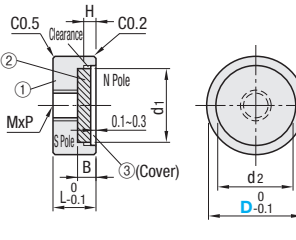
Attraction force and surface magnetic flux density are for reference only.

## Cap Type



RoHS10

Part Number	①		②		Heat Resistant Temperature	③		Polarity
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	
HXX	EN 1.0718 Equiv.	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C	N	S	



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



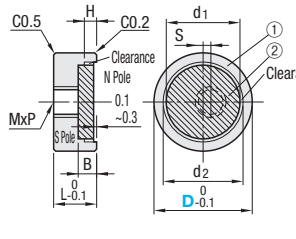
Attraction force and surface magnetic flux density are for reference only.

## Eccentric Mount Type



RoHS10

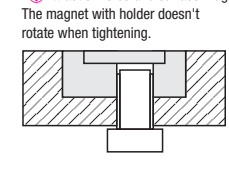
Part Number	①		②		Heat Resistant Temperature	③		Polarity
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	
HXE	EN 1.0718 Equiv.	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C	N	S	



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



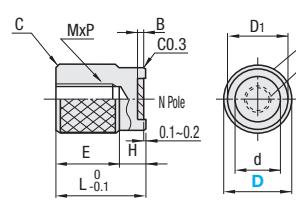
Attraction force and surface magnetic flux density are for reference only.

## Knurled Type



RoHS10

Part Number	①		②		Heat Resistant Temperature	③		Polarity
	Material	Surface Treatment	Material	Surface Treatment		Material	Front/Back	
MGR	EN 1.0718 Equiv.	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C	N	S	



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)	3400~3700	9.5	14	2.0						1.0
	20			58.8 (6.0)	3400~3700	12.5	18	7						18
25	30	8												