

Magnets

Countersunk with Holder / Oval Holder

Magnets – Countersunk with Holder

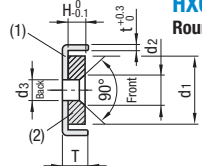


RoHS10

Type			(1)		(2)		Heat-Resistant Temperature	Temperature	
Round	Square	Rectangle	Material	Surface Treatment	Material	Surface Treatment		Front	Back
HXCC	HXCS	HXCR	1018 Carbon Steel	Nickel Plating	Neodymium Magnet	Nickel Plating	80°C	N	S
HXCC-S	—	—			Heat-Resistant Neodymium Magnets			S	N
HXCCCH	—	—			N			S	

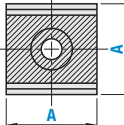
HXCC
HXCC-S
HXCCCH

Round Type



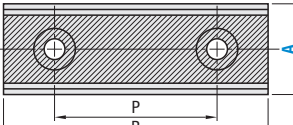
HXCS

Square Type



HXCR

Rectangle Type



Part Number		T	d ₁	H	d ₂	d ₃	t	B	P	Accessory: Stainless Steel Flat Head Screw		Attraction Force			Surface Magnetic Flux Density Gauss [G]	HXCC HXCC-S HXCCCH	HXCS HXCR
Type	A									HXCC / HXCC-S HXCCCH / HXCS	HXCR	HXCC / HXCC-S HXCCCH	HXCS	HXCR			
Round Type	8	4	6.4	3.2	5.5	3	0.6	15	8	M2.5-8x1 pc.	M2.5-8x2 pcs.	3.9 {0.4}	7.8 {0.8}	17.6 {1.8}	1200–3900	2200–2500	4000–4300
HXCC	10	5	8	4	6.5	3.5	0.8	20	10	M3-10x1 pc.	M3-10x2 pcs.	5.8 {0.6}	19.6 {2.0}	39.2 {4.0}	1500–4000	2400–2700	4200–4700
HXCC-S	12	6	9.6	4.8	9	4.8	1.0	25	12			15.7 {1.6}	29.4 {3.0}	68.6 {7.0}	3200–4000	3800–4100	
HXCCCH	15	6	12.6	4.8	9	4.8	1.0	30	15	M4-12x1 pc.	M4-12x2 pcs.	24.5 {2.5}	49.0 {5.0}	98.1 {10.0}	3800–4000		
Square Type	20	7	17.2	5.6	11	5.8	1.2	40	20	M5-15x1 pc.	M5-15x2 pcs.	58.8 {6.0}	127.5 {13.0}	230.5 {23.5}	3800–4000	4200–4500	
HXCS	25	8	21.2	6.2	13	7.0	1.6	50	30	M6-16x1 pc.	M6-16x2 pcs.	152.0 {15.5}	181.4 {18.5}	294.2 {30.0}	3700–4000		
Rectangle Type	25	8	21.2	6.2	13	7.0	1.6	50	30	M6-16x1 pc.	M6-16x2 pcs.	152.0 {15.5}	181.4 {18.5}	294.2 {30.0}	3700–4000		
HXCR	25	8	21.2	6.2	13	7.0	1.6	50	30	M6-16x1 pc.	M6-16x2 pcs.	152.0 {15.5}	181.4 {18.5}	294.2 {30.0}	3700–4000		

① Attraction force and surface magnetic flux density are for reference only. ② Handle with care since these materials are very brittle. For Tightening Torque (Value for Reference), refer to P.2477.

③ Combination use of magnets and holders helps to protect the magnets.



Part Number Example

Part Number

HXCC10

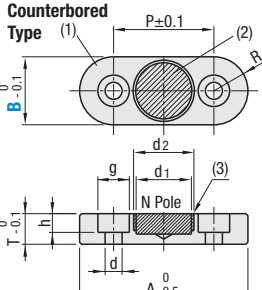
Magnets – Oval Holder



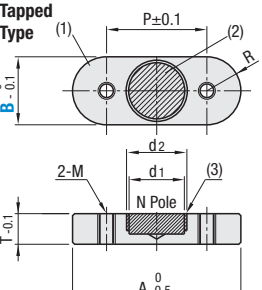
RoHS10

Type			(1)		(2)		(3)		Heat Resistant Temperature
Counterbored Type	Tapped Type	Flat Head Screw	Material	Surface Treatment	Material	Surface Treatment	Material		
HXUKZ	HXUKM	—	1018 Carbon Steel or Equivalent	Electroless Nickel Plating	Samarium-Cobalt Magnet	—	Brass (C3604 Brass (JIS) BD Brass (JIS))	80°C	
HXUKZN	HXUKMN	—			Neodymium Magnet	Nickel Plating	—		
—	—	HXUKSN	Low Carbon Steel Equivalent						

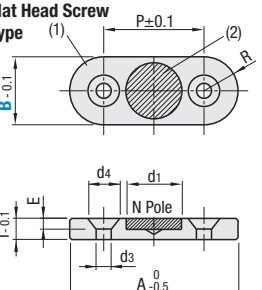
Counterbored Type



Tapped Type



Flat Head Screw Type



Part Number		B	A	P	T	R	Counterbored Type	Tapped Type	Attraction Force		d ₁	d ₂	Surface Flux Density Gauss [G]	
Type							g	d	h	M (Coarse)	HXUKZ / HXUKM	HXUKZN / HXUKMN	HXUKZ / HXUKM	HXUKZN / HXUKMN
Counterbored Type	10	27	17	7	5	8	4.5	4.5	M4	8.8 {0.9}	13.7 {1.4}	7	8	2700–2900
HXUKZ	13	33	20	7	6.5	8	4.5	4.5	M4	19.6 {2.0}	30.4 {3.1}	9.5	11	2800–3100
HXUKZN	16	41	25	9	8	9.5	5.5	5.5	M5	38.2 {3.9}	63.7 {6.5}	12.5	14	2900–3300
Tapped Type	20	50	30	10	10	9.5	5.5	5.5	M5	60.8 {6.2}	114.7 {11.7}	16.5	18	2900–3400
HXUKM														3600–3900
HXUKMN														3800–4200

Part Number		B	A	P	T	R	E	d ₁	d ₃	d ₄	Accessory (Stainless Steel Flat Head Screw)	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]
Type													
Flat Head Screw Type	10	25	15	3	5	1.5	7	3.5	6.5	M3-6 x 2 pcs.		13.7 {1.4}	2700–2900
HXUKSN	13	30	20	3	6.5	1.5	9.5	3.5	6.5	M3-6 x 2 pcs.		29.4 {3.0}	2800–3100

① Attraction force and surface magnetic flux density are for reference only.



Part Number Example

Part Number

HXUKZ10

Urethane Coated Magnets / Threaded Magnets with Holders

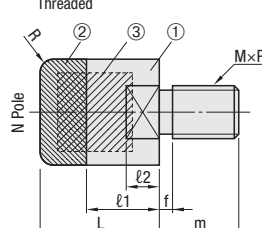
Urethane Coated Magnets



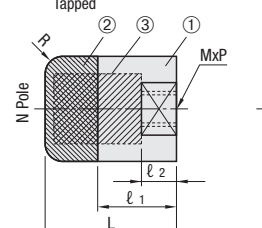
RoHS10

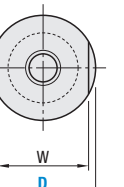
Type		① Holder	② Urethane		③ Magnet	Heat Resistant Temperature
Threaded	Tapped	Material	Material	Hardness	Material	
HXX	HXXH	304 Stainless Steel	Ether Type Polyurethane	Shore A90	Neodymium Magnet	80°C
HXXA	HXXA			Shore A70		

Threaded



Tapped





Threaded

Part Number		M x P (Coarse)	L	ℓ ₁	ℓ ₂	f	m	W	R	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	
Type	D											
HXX HXXA	10	M5 x 0.8	16	10	4	2	1	7	8	1	4.0 {0.40}	3000–3200
	12	M6 x 1.0					10	10	6.5 {0.66}	2900–3100		
	16	M8 x 1.25	18	11	5		2	12	14	8.0 {0.81}	2700–2900	
	20	M10 x 1.5	20	13	6		14	17	3	17.7 {1.8}	2600–2800	
	25	M10 x 1.5	22	15	8		22	22	35.0 {3.56}	2900–3100		



Part Number Example

Part Number

HXX10

Feature

Effective in preventing workpiece from being damaged and help dampening noise.

Tapped

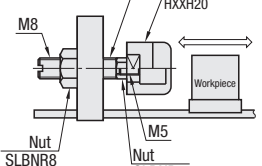
Part Number		M x P (Coarse)	L	ℓ ₁	ℓ ₂	W	R	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]
Type	D								
HXXH	10	M4 x 0.7	15	9	4	8	1	4.0 [0.40]	3000–3200
	12					10	2	6.5 [0.66]	2900–3100
	16	M5 x 0.8	17	10	5	14		8.0 [0.81]	2700–2900
	20					17	3	17.7 [1.8]	2600–2800
	25	M6 x 1.0	18	11	6	22		35.0 [3.56]	2900–3100

① Attraction force and surface magnetic flux density are for reference only.



Application Example

Conversion Adaptor for Screws
SABS Resin8–39–N5–E9–MWC



Urethane Coated Magnet HXXH20

M8

Nut SLBNR8

M5

Nut SLBNR5

Workpiece

Threaded Magnets with Holders

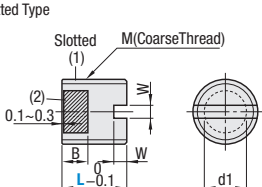


RoHS10

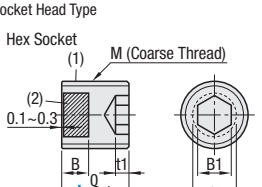
Part Number		(1)		(2)		Heat-Resistant Temperature	Temperature	
		Material	Surface Treatment	Material	Surface Treatment		Front	Back
HXB		12L14 Carbon Steel	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	80°C	N	S

① L dimensions with * in the specification table are Slotted Type.

Slotted Type



Hex Socket Head Type



Part Number		d ₁	B	M (Coarse)	Attraction Force N {kgf}	Slotted	Hexagonal Hole	
Type	L					W	B ₁	t ₁
HXB	6	8	4	5	M6 x 1.0	3.9 {0.4}	1.5	—
		15					—	3.0
	8	8	5	M8 x 1.25	7.8 {0.8}	1.5	—	
		15					—	4.0
	10	8	6	M10 x 1.5	16.7 {1.7}	2.0	—	
		15					—	5.0
	12	12	7	M12 x 1.75	32.3 {3.3}	2.5	—	
		20					—	6.0
	16	14	10	M16 x 2	60.8 {6.2}	—	8.0	3.0
		20					—	—
20	16	13	M20 x 2.5	123.5 {12.6}	—	10.0	4.0	
	25					—	—	—

① Attraction force and surface magnetic flux density are for reference only.



Part Number Example

Part Number

HXB10

L

8