

Magnets

Countersunk with Holder / Oval Holder

Magnets – Countersunk with Holder

Type	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	Heat-Resistant Neodymium Magnets	80°C	N	S
HXCC-S								150°C	S	N
HXCC									N	S
HXCC									N	S

Part Number	Type	A	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
											HXCC / HXCC-S HXCCCH / HXCS	HXCR	HXCC / HXCC-S HXCCCH	HXCS	HXCR				
Round Type HXCC HXCC-S HXCCCH	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		
Square Type HXCS	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		
Rectangle Type HXCR	12	6	9.6	4.8	9	4.8	1.0	25	12	M4-12x1 pc.	M4-12x2 pcs.	15.7 [1.6]	29.4 [3.0]	68.6 [7.0]	3200-4000	3800-4100			
	15	7	12.6	6.3	11	6.3	1.2	30	15	M5-15x1 pc.	M5-15x2 pcs.	24.5 [2.5]	49.0 [5.0]	98.1 [10.0]	3800-4000	4200-4500			
	20	8	17.2	8.6	13	8.6	1.6	40	20	M6-16x1 pc.	M6-16x2 pcs.	58.8 [6.0]	117.6 [12.0]	235.2 [24.0]	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. ④ Due to the nature of the product, there may be some fragments, but this has no effect on the magnetism.

Part Number Example HXCC10

Magnets – Oval Holder

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

Part Number	Type	B	A	P	T	R	Counterbored Type			Tapped Type			Attraction Force		Surface Flux Density Gauss [G]	
							g	d	h	M (Coarse)	HXUKZ / HXUKM	HXUKZN / HXUKMN	d ₁	d ₂	HXUKZ / HXUKM	HXUKZN / HXUKMN
Counterbored Type HXUKZ HXUKZN	10	27	17	7	5	8	4.5	4.5	M4	8.8 [0.9]	13.7 [1.4]	7	8	2700-2900	3600-3900	
Tapped Type HXUKM HXUKMN	13	33	20	9	6.5	9.5	5.5	5.5	M5	19.6 [2.0]	30.4 [3.1]	9.5	11	2800-3100	3800-4200	
	16	41	25	10	8	12.5	6.5	6.5	M5	38.2 [3.9]	63.7 [6.5]	12.5	14	2900-3300		
	20	50	30	12	10	16.5	8.5	8.5	M6	60.8 [6.2]	114.7 [11.7]	16.5	18	2900-3400	4000-4400	

Part Number	Type	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]
	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 HXUKZ10

Urethane Coated Magnets / Threaded Magnets with Holders

Urethane Coated Magnets

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

Threaded

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

Part Number Example HXX10

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

Tapped

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

Application Example

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

Threaded Magnets with Holders

RoHS 10

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.

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

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

Part Number Example HXB10 - 8