

Magnet Countersunk

Powerful magnets. May crack when pulled and struck by other magnetic substances. Please handle with care in unpacking.

Countersunk

RoHS 10

Type		Material	Heat Resistant Temperature	Surface Treatment
Round	Square			
NHXCC	NHXCS	Neodymium Magnet	80°C	Nickel Plating
NHXCCCH	NHXCSH	Heat-resistant Neodymium Magnets	150°C	

(Round Type)

(Square Type)

Magnetization Direction: Y-direction

A Accessory: Flat Head Screw 1 pc. (SUS304 Equivalent)

Part Number	Type	A	T	d1	d2	Accessory:	Attraction Force N [kgf]				Surface Magnetic Flux Density Gauss [G]				Unit Price				
							NHXCC	NHXCS	NHXCCCH	NHXCSH	NHXCC	NHXCS	NHXCCCH	NHXCSH	NHXCC	NHXCCCH	NHXCS	NHXCSH	
(Round Type) NHXCC NHXCCCH	8	2	3	5.5	3.0	M2.5-6	7.8 {0.8}	10.8 {1.1}	2000~2500	3000~3400									
							10.8 {1.1}	16.6 {1.7}	2400~2800	3200~3600									
	10	3	6.5	3.5	M3-8	14.7 {1.5}	22.5 {2.3}	3500~4000	3000~3300										
						18.6 {1.9}	24.5 {2.5}	4000~4200	3800~4000										
(Square Type) NHXCS NHXCSH	12	4	4.5	6.5	3.5	M3-8	18.6 {1.9}	-	3600~4000	-									
							23.5 {2.4}	27.4 {2.8}	4100~4300	3900~4100									
	15	3	9	4.8	M4-10	23.5 {2.4}	-	3800~4200	-										
						41.1 {4.2}	54.8 {5.6}	4200~4500	4000~4300										
20	5	11	5.8	M5-12	49 {5.0}	-	3800~4100	-											
					54.8 {5.6}	78.4 {8.0}	4200~4400	4000~4200											
25	4	13	7.0	M6-15	58.8 {6.0}	-	3700~4100	-											
					78.4 {8.0}	98.0 {10.0}	4100~4400	3900~4300											

Attraction Force and Surface Flux Density are reference values for magnets alone.

Ordering Example: Part Number NHXCC8 - T 3

Installation Precautions

- Place a magnet on flat surface. (Illustration B)
- Please make sure that there is no misalignment between magnet holes and tapped holes. (Illustration C)
- Please make sure that there is no dust before installing flat head screws. (Illustration D)

A Dusts are not attached.

Flat Surface Position of tapped hole is precise.

B Surface is uneven.

O

X

C Position of tapped hole is misaligned.

D Dusts are attached.

X

X

Tightening Torque (Reference Value)

Magnets - Countersunk		
Tightening Torque (Value for Reference)		
A Dimension of Magnet	Included Flat Head Screw	N · m
8	M2.5-6	0.2
10	M3-8	0.6
12	M3-8	0.6
15	M4-10	1.4
20	M5-12	2.9
25	M6-15	5.0

- Tightening beyond the specified torques may cause magnet breakage.
- We revised the safety factor and modified the reference value from the 2014 Catalog.

Magnet Countersunk with Holder / Oval Holder

The holders are used in a combination to protect the magnet.

Countersunk with Holder

RoHS 10

Type	Type		Material		Heat Resistant Temperature	Polarity			
	Round	Square	Material	Surface Treatment		Material	Surface Treatment	Front	Back
HXCC	HXCS	HXCR	SS400 Equivalent	Nickel Plating	80°C	Neodymium Magnet	Nickel Plating	N	S
								S	N
HXCC-S	-	-	-	-	150°C	Heat-resistant Neodymium Magnets	-	N	S
								S	N

HXCC
HXCC-S
HXCCCH
(Round Type)

HXCS
(Square Type)

HXCR
(Rectangle Type)

Handle with care since these materials are very brittle. For Tightening Torque (Value for Reference), refer to P.291.

Part Number	Type	A	T	d1	H	d2	d3	t	B	P	Accessory (Stainless Steel Flat Head Screw)		Attraction Force N [kgf]			Surface Magnetic Flux Density Gauss [G]	Unit Price				
											HXCC-HXCC-SHXCCCH-HXCS	HXCR	HXCCCHXCC-SHXCCCH	HXCS	HXCR		HXCC	HXCC-S	HXCCCH	HXCS	HXCR
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							
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							
12	6	9.6	4.8	6.5	3.5	1.0	25	12	M3-10x1 pc.	M3-10x2 pcs.	15.7 {1.6}	29.4 {3.0}	68.6 {7.0}	3200~4000							
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							
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							
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							

Ordering Example: Part Number HXCC10

Attraction force and surface magnetic flux density are for reference only. Due to the nature of the product, there may be some fragments, but this has no effect on the magnetism.

Oval Holder

RoHS 10

Type	Type		Material		Heat Resistant Temperature
	Counterbored	Tapped	Material	Surface Treatment	
HXUKZ	HXUKM	-	Sintered Iron	Electroless Nickel Plating	80°C
HXUKZN	HXUKMN	-	SS400 Equivalent	-	-

(Counterbored)

(Tapped)

(Countersunk)

Part Number	Type	B	A	P	T	R	E	d1	d3	d4	Accessory (Stainless Steel Flat Head Screw)		Attraction Force N [kgf]		Surface Magnetic Flux Density Gauss [G]		Unit Price			
											M (Coarse)	HXUKZ, HXUKM	HXUKZN, HXUKMN	HXUKZ, HXUKM	HXUKZN, HXUKMN	HXUKZ, HXUKM	HXUKZN, HXUKMN	HXUKZ, HXUKM	HXUKZN, HXUKMN	
(Counterbored) 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					
																19.6 {2.0}	30.4 {3.1}	9.5	11	2800~3100
(Tapped) HXUKM HXUKMN	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	3800~4200					
																60.8 {6.2}	114.7 {11.7}	16.5	18	2900~3400

Part Number	Type	B	A	P	T	R	E	d1	d3	d4	Accessory (Stainless Steel Flat Head Screw)	Attraction Force N [kgf]	Surface Magnetic Flux Density Gauss [G]	Unit Price	
														HXUKZ	HXUKM
(Countersunk) HXUKSN	10	25	15	3	5	1.5	7	3.5	6.5	M3-6x2 pcs.	13.7 {1.4}	2700~2900			
													29.4 {3.0}	2800~3100	

Ordering Example: Part Number HXUKZ10

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