

Magnet

Countersunk

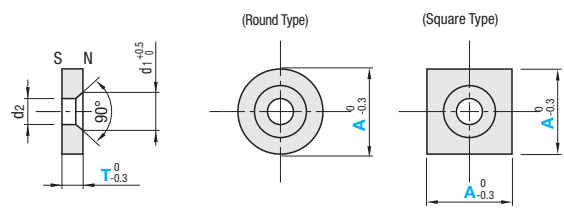
⚠️ Powerful magnets. May crack when pulled and struck by other magnetic substances. Please handle with care in unpacking.

Countersunk

RoHS 10

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

Magnetization Direction: Y-direction



(Round Type) (Square Type)

A Accessory: Flat Head Screw 1 pc. (EN 1.4301 Equiv.)

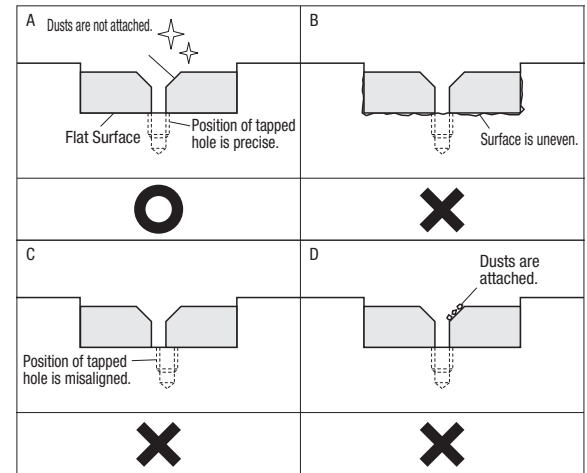
Part Number		Type	A	T	d1	d2	Accessory:	Attraction Force N {kgf}		Surface Magnetic Flux Density Gauss [G]		Unit Price			
								NHXCC	NHXCS	NHXCC-H	NHXCS-H	NHXCC	NHXCS	NHXCC-H	NHXCS-H
(Round Type)	8	2	3	5.5	3.0	M2.5-6		7.8 {0.8}	10.8 {1.1}	2000~2500	3000~3400				-
								10.8 {1.1}	16.6 {1.7}	2400~2800	3200~3600				-
	10	3	4	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)	12	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	5	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	6	11	5.8	M5-12		49 {5.0}	-	3800~4100	-	-	-	-	-
								54.8 {5.6}	78.4 {8.0}	4200~4400	4000~4200				-
	25	4	6	13	7.0	M6-15		58.8 {6.0}	-	3700~4100	-	-	-	-	-
								78.4 {8.0}	98.0 {10.0}	4100~4400	3900~4300				-

Ordering Example
Part Number: NHXCC8
T: 3

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

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)



Tightening Torque (Reference Value)

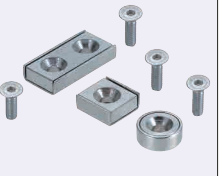
Magnets - Countersunk		
Tightening Torque (Value for Reference)		
A Dimension of Magnet	Included Flat Head Screw	N · m
8	M2.5-6	0.2
10	M3-8	0.6
12	M3-8	0.6
15	M4-10	1.4
20	M5-12	2.9
25	M6-15	5.0

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

Magnet

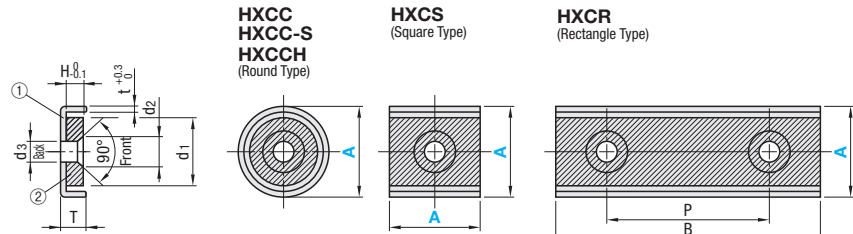
Countersunk with Holder / Oval Holder

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

Countersunk with Holder

RoHS 10

Type		Material	Surface Treatment	Material	Surface Treatment	Heat Resistant Temperature	Polarity	
Round	Square						Front	Back
HXCC	HXCS	HXCR	EN 1.0038 Equiv.	Nickel Plating	Neodymium Magnet	80°C	N	S
HXCC-S	-	-			Heat-resistant Neodymium Magnet	150°C	S	N
HXCC-H	-	-					N	S

Magnetization Direction: Y-direction



(Round Type) (Square Type) (Rectangle Type)

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

Part Number											Accessory (Stainless Steel Flat Head Screw)		Attraction Force N[kgf]			Surface Magnetic Flux Density Gauss [G]	Unit Price				
Type	A	T	d1	H	d2	d3	t	B	P	HXCC-HXCC-SHXCC-HXCS	HXCR	HXCHXCC-SHXCC	HXCS	HXCR	HXCC		HXCC-S	HXCCH	HXCS	HXCR	
(Round Type) HXCC HXCC-S HXCCH	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						
(Square Type) HXCS	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						
(Rectangle Type) 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						

Ordering Example
Part Number: HXCC10

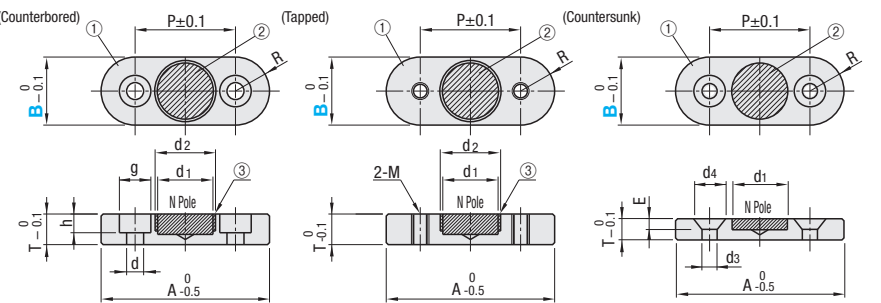
⚠️ Attraction force and surface magnetic flux density are for reference only.

Oval Holder

RoHS 10

Type		Material	Surface Treatment	Material	Surface Treatment	Material	Surface Treatment	Heat Resistant Temperature
Counterbored	Tapped							
HXUKZ	HXUKM	-	-	-	-	-	-	-
HXUKZ-H	HXUKM-H	-	-	-	-	-	-	-
-	-	HXUKS	EN 1.0038 Equiv.	Electroless Nickel Plating	Neodymium Magnet	Nickel Plating	Brass	80°C

(Counterbored) (Tapped) (Countersunk)



⚠️ Brass is not contained in Countersunk Type.

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			
(Counterbored)	10	27	17	5	8	4.5	4.5	M4	8.8 {0.9}	13.7 {1.4}	7	8	2700~2900	3600~3900	-	-	-	-	-
(Tapped)	13	33	20	6.5	9.5	5.5	5.5	M5	19.6 {2.0}	30.4 {3.1}	9.5	11	2800~3100	3800~4200	-	-	-	-	-
(Countersunk)	16	41	25	8	9.5	5.5	5.5	M5	38.2 {3.9}	63.7 {6.5}	12.5	14	2900~3300	-	-	-	-	-	-
(Countersunk)	20	50	30	10	9.5	5.5	5.5	M5	60.8 {6.2}	114.7 {11.7}	16.5	18	2900~3400	4000~4400	-	-	-	-	-

Ordering Example
Part Number: HXUKZ10

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