

# Magnet

Urethane Baked / Epoxy Resin Coating / Magnetization Direction

**Urethane Baked**

Type	①Urethane		②Magnet		Heat Resistant Temperature
	Material	Hardness	Material	Surface Treatment	
<b>HXUR</b>	Ether-based Polyurethane	Shore A90	Neodymium Magnet	Electroless Nickel Plating	80°C

RoHS 10

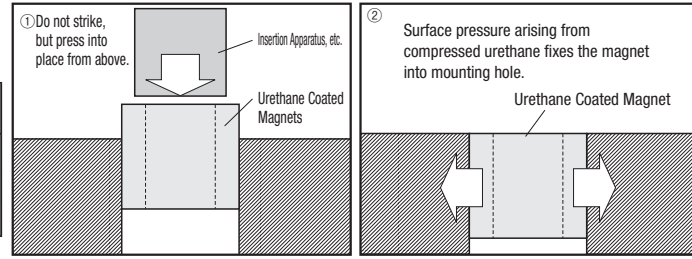
Part Number - L  
**HXUR5 - 5**

**Features**  
 • Can be installed without the need for adhesive or screw.  
**About Installation**

- Drill a through hole or deep hole as a mounting hole.
- For recommended hole tolerance, see the table below.
- When mounting, press the magnet into the component slowly. Do not hit the magnet part.
- Push Urethane section, as well as Magnet section inward.
- Adopts keyless clamping mechanism which utilizes urethane surface pressure around the magnet for fixing into mounting hole.
- Due to this, the actual O.D. is slightly larger than recommended hole size.

Material	Recommended Mounting Hole Tolerance	Mating Force N (kgf)	Unmating Force N (kgf)	Vibration Test Result (JIS C 60068-2-6) (under No Load)
Iron (SS400)	+0.1 0	300 (30.6)	180 (18.3)	○
Aluminum (A5052)	+0.1 0	400 (40.8)	170 (17.3)	○
Resin (MC Nylon)	+0.1 0	300 (30.6)	150 (15.3)	○

① Mating and Unmating Force are reference values.



Part Number	Type	D	L	d	Attraction Force N {kgf}	Surface Magnetic Flux Density Gauss [G]	Unit Price
<b>HXUR</b>	5	5	3	2.35 {0.24}	3500~3700		
	6	5	4	4.70 {0.48}	4000~4200		
	8	5	5	7.64 {0.78}	4300~4500		
	8	6	6	11.76 {1.20}	4400~4600		
	10	8	8	23.03 {2.35}	4600~4800		
	12	10	10	38.02 {3.88}	4900~5100		

① Attraction Force and Surface Flux Density are reference values for magnets alone.  
 ② N pole is colored red.  
 ③ The top and bottom surfaces are not coated with urethane.

**Epoxy Resin Coating**

Type	Material	Surface Treatment	Heat Resistant Temperature
<b>HXNJ</b>	Neodymium Magnet	Epoxy Resin Coating	80°C

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**Magnetization Direction**

Type	Material	Surface Treatment	Heat Resistant Temperature
<b>RHXN</b>	Neodymium Magnet	Nickel Plating	80°C

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Ordering Example  
 Part Number - L  
**HXNJ3 - 10**  
**RHXN5 - 10**

Part Number	Type	D	L	Attraction Force N {kgf}	Surface Magnetic Flux Density Gauss [G]	Unit Price
<b>HXNJ</b>	3	5	2.3 {0.24}	4000~4200		
	4	5	4.4 {0.45}	4200~4400		
	5	6	6.8 {0.7}	4400~4600		
	6	6	9.8 {1.0}	4400~4600		
	8	8	18.6 {1.9}	4600~4800		
	10	10	33.3 {3.4}	4800~5000		

① Resin coating enhances water-resistant and antirust properties.  
 ② Attraction Force and Surface Flux Density are reference values for magnets alone.  
 ③ N pole is colored white.

Part Number	Type	D	L	Attraction Force N {kgf}	Surface Magnetic Flux Density Gauss [G]	Unit Price
<b>RHXN</b>	5	5	4.9 {0.5}	4300~4500		
	10	10	11.8 {1.2}	4300~4500		
	15	15	12.7 {1.3}	4300~4500		
	15	15	23.5 {2.4}	5600~5800		
	20	20	35.3 {3.6}	5600~5800		

① Attraction Force and Surface Flux Density are reference values for magnets alone. ② N pole is colored red.

# Magnet

Ring / Square

① Powerful magnets. May crack when pulled and struck by other magnetic substances. Please handle with care in unpacking.

**Ring**

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**HXCW**

Material: Neodymium Magnet Surface Treatment: Nickel Plating Heat Resistant Temperature: 80°C

Ordering Example  
 Part Number - V - T  
**HXCW25 - 6 - 1**

Part Number	Type	D	V Selection	T	Attraction Force N (kgf)	Surface Magnetic Flux Density Gauss [G]	Unit Price
<b>HXUR</b>	6	2	2	6.2 {0.6}	2600~2800		
	8	3	4	1	4.9 {0.5}	1600~1800	
			2	2	7.8 {0.8}	2600~2800	
			3	3	9.8 {1.0}	3200~3400	
			5	5	14.3 {1.5}	3200~3800	
			3	3	6.9 {0.7}	1700~1900	
<b>HXCW</b>	10	3	4	1	10.8 {1.1}	2600~2800	
			5	2	11.8 {1.2}	3200~3400	
			6	3	18.8 {1.9}	3600~3800	
	12	4	5	1	7.8 {0.8}	1500~1700	
			6	2	13.7 {1.4}	2500~2700	
	14	4	8	3	15.7 {1.6}	2900~3100	
			6	5	23.3 {2.4}	3600~3800	
	18	6	8	1	8.8 {0.9}	1600~1800	
			12	2	19.6 {2.0}	2600~2800	
			5	3	23.5 {2.4}	2900~3100	
	20	6	8	1	10.8 {1.1}	1300~1500	
			12	2	21.6 {2.2}	2200~2400	
5			3	33.3 {3.4}	2600~2800		
25	6	12	1	62.3 {6.3}	3600~3800		
		10	2	12.7 {1.3}	1300~1500		
		12	3	34.3 {3.5}	2100~2300		
30	6	12	3	58.8 {6.0}	2600~2800		
		5	5	73.8 {7.5}	3400~3600		
30	12	5	5	98.5 {10.0}	3000~3200		

① Attraction Force and Surface Flux Density are reference values for magnets alone.  
 ② N pole is colored red.

**Square**

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Type	Material	Heat Resistant Temperature	Surface Treatment
<b>MGLN</b>	Neodymium Magnet	80°C	Nickel Plating
<b>MGLF</b>	Ferrite Magnet	300°C	-

Ordering Example  
 Part Number - B - T  
**MGLN10 - 5 - 1**  
 Part Number - A - B  
**MGLF5 - 10 - 5**

Part Number	Type	A	B	T	Attraction Force N {kgf}	Surface Magnetic Flux Density Gauss [G]	Unit Price
<b>MGLN (Neodymium Magnet)</b>	3	3	5	2	2.8 {0.29}	4100~4300	
				4	5.6 {0.57}	4300~4500	
				5	8.9 {0.91}	4400~4600	
				6	13.7 {1.4}	4500~4700	
				8	23.2 {2.37}	4400~4600	
				1	2.7 {0.28}	1700~1900	
	10	5	5	2	8.5 {0.87}	3000~3200	
				5	16.8 {1.71}	4200~4400	
				1	6.5 {0.66}	1800~2000	
				2	11.8 {1.2}	2500~2700	
				8	39.3 {4.01}	4500~4700	
				3	13.9 {1.42}	3100~3300	
	15	5	5	3	23.7 {2.42}	4100~4300	
				10	31.4 {3.2}	4700~4900	
				3	23.9 {2.44}	2900~3100	
				10	34.3 {3.5}	3300~3700	
				10	61.4 {6.27}	4600~4800	
				10	40.8 {4.16}	4600~4800	
20	5	10	5	47.7 {4.87}	3500~3700		
			10	77.8 {7.94}	4700~4900		
			15	69.7 {7.11}	3300~3700		
			20	84.8 {8.65}	3100~3300		
			30	110.8 {11.31}	3300~3700		

① Attraction Force and Surface Flux Density are reference values for magnets alone.  
 ② N pole of MGLN is colored red.

Part Number	Type	T	A	B	Attraction Force N {kgf}	Surface Magnetic Flux Density Gauss [G]	Tolerance		Unit Price
							A	B	
<b>MGLF (Ferrite Magnet)</b>	5	10	5	10	1.6 {0.16}	900~1100	±0.1	±0.1	
					4.9 {0.50}		±0.1	±0.1	
					9.8 {1.00}	1000~1200	±0.15	±0.15	
					12.7 {1.30}		±1.2	±0.4	
					21.6 {2.20}		±0.15	±0.15	
					29.4 {3.00}		±0.6	±1.2	
	10	30	60	40	17.7 {1.80}	1100~1400	±0.8	±0.4	
					31.4 {3.20}		±0.8	±0.8	

① Attraction Force and Surface Flux Density are reference values for magnets alone.