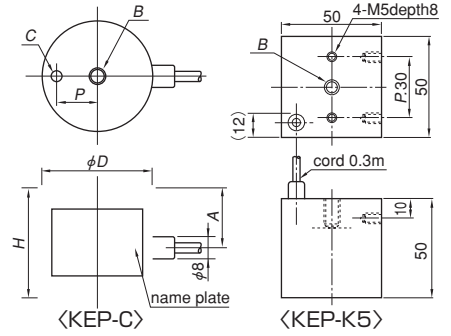


Model **KEP** MAGNETIC HOLDER



Electromagnet release type

Controller required additionally



**Precautions for use**  
Rust and scratches on the attractive face affect the holding power adversely. Repair it periodically.

- [Features]**
- Permanent magnetic holder for long time attraction without trouble of dropping due to power failure. It is turned ON/OFF with electric control.
  - Magnetic force turns OFF (releases) by power supply control and it is turned ON at all other times.
  - The interruptible power supply is not required.

**How to Use**

Power source is 24 VDC. When using 4 holders at the same time, connect their wires in series and use them with power of 96 VDC.

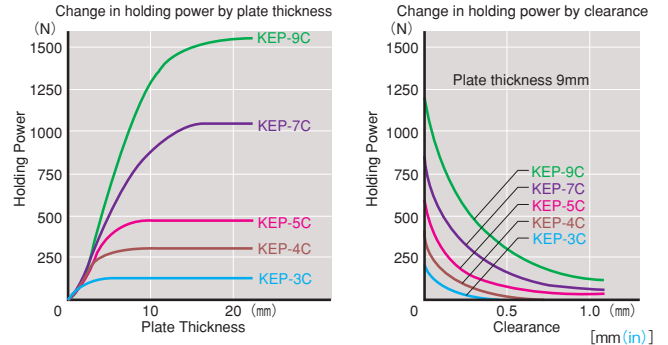
In this case, a voltage variable rectifier (e.g. KR-T205) enables adjustment of the demagnetizing voltage (power on amount at OFF) to facilitate operation.

**Release Only at Power Supply**

The power-on time must be 5 seconds or less. The power-off time must be 10 times or longer.

**Residual Magnetism**

As an inevitable nature of the permanent electromagnetic holder, 3 % to 4 % of the holding power will remain as residual holding power even when it is released. If the weight of the lifted workpiece is lighter than this holding power, it may not be released. In such a case, the workpiece can be released easily by attaching a thin nonmagnetic film on the attractive face. But, the holding power will drop in squared proportion.



Model	Dimensions						Max. Holding Power	Voltage	Current	Operating Factor	Applicable Rectifier	Mass
	$\phi D$	H	P	A	B	C						
KEP-3C	30 (1.18)	40	10 (0.39)	22	M6 (0.23) Depth 10	$\phi 4$ (0.15) Depth 3	150N ( 15kgf)	24 VDC	0.45A	10% ED	KR-T103A-24 KR-T101A-6/24	0.17kg/ 0.37 lb
KEP-4C	40 (1.57)	15	15 (0.59)	25	M8 (0.31) Depth 13	$\phi 5$ (0.19) Depth 4	250N ( 25kgf)		0.54A			0.31kg/ 0.68 lb
KEP-5C	50 (1.96)	50	18 (0.70)	25	M8 (0.31) Depth 13	$\phi 5$ (0.19) Depth 4	340N ( 35kgf)		0.58A			0.6 kg/ 1.32 lb
KEP-7C	70 (2.75)	60	20	35	M10 (0.39) Depth 16	$\phi 6$ (0.23) Depth 6	880N ( 90kgf)		0.50A			1.5 kg/ 3.30 lb
KEP-9C	90 (3.54)	60	20	35	M10 (0.39) Depth 16	$\phi 6$ (0.23) Depth 6	1470N (150kgf)		0.45A			2.4 kg/ 5.29 lb
KEP-K5	50(1.96) × 50(1.96) × 50(1.96)				M8D (0.31) epth13	—	250N ( 25kgf)		0.43A			50% ED

※ The maximum holding power applies to SS400, 20-mm thick, ground-finished test piece held on the whole area.  
※ Cord length 0.3 m.

Model **KE-H** HYBRID HOLDER

Controller required additionally



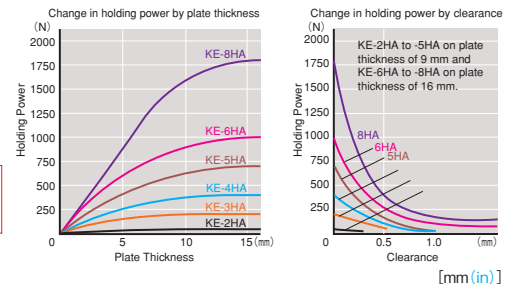
**Precautions for use**  
Rust and scratches on the attractive face affect the holding power adversely. Repair it periodically.

**[Application]**

Applicable to systems requiring high speed for robot hands and repeated transport operations in an automated line.

**[Features]**

- Very little residual holding power permits the speedy release of the workpiece. This enables high-speed operation, for example, an attaching / detaching cycle of 5 to 6 cycle/sec for a lightweight workpiece.
- Because it is a permanent electromagnetic type, the holder consumes little power and generates little heat, and thus is suitable for continuous, long period operation.
- The holding power is switchable to high, low and off according to normal supply, shutoff and reverse supply of power, respectively. This enables a wide variety of uses. (When at "low," the holding power is about 1/3 of that at "high.")
- Powerful rare earth magnet offers high holding power in spite of the small size of the holder.



Model	Dimensions	Max. Holding Power	Tapped Hole	Voltage	Current	Operating Factor	Applicable Rectifier	Mass
KE-2HA	$\phi 20$ (0.78) × 25 (0.98)	50N ( 5kgf)	M4 (0.15) × 0.7 (0.02) Depth 6 (0.23)	24 VDC	0.07A	100% ED	KR-H1005 RH-H102B	60g/ 0.13 lb
KE-3HA	$\phi 30$ (1.18) × 40 (1.57)	200N ( 20kgf)	M6 (0.23) × 1.0 (0.03) Depth 6 (0.23)		0.11A			140g/ 0.31 lb
KE-4HA	$\phi 40$ (1.57) × 40 (1.57)	400N ( 40kgf)	M8 (0.31) × 1.25 (0.04) Depth 10 (0.39)		0.15A			280g/ 0.61 lb
KE-5HA	$\phi 50$ (1.96) × 50 (1.96)	700N ( 70kgf)	M10 (0.39) × 1.5 (0.05) Depth 10 (0.39)		0.2 A			530g/ 1.17 lb
KE-6HA	$\phi 60$ (2.36) × 60 (2.36)	1000N (100kgf)	M10 (0.39) × 1.5 (0.05) Depth 10 (0.39)		0.22A			960g/ 2.11 lb
KE-8HA	$\phi 80$ (3.15) × 60 (2.36)	1800N (180kgf)	M10 (0.39) × 1.5 (0.05) Depth 10 (0.39)		0.28A			1.6kg/ 3.52 lb

※ For continuous high speed operations, a non-contact rectifier (RH-H102A) needs to be used.  
※ HA type: Cord length 0.3 m (0.2 m for KE-2HA only)  
※ The maximum holding power applies to SS400, ground test piece held on the whole area. Test piece thickness: 10 mm for KE-2HA~4HA and 20 mm for KE-5HA~8HA.

ELECTROMAGNETIC CHUCKS  
CHUCK CONTROLLERS  
PERMANENT ELECTROMAGNETIC CHUCKS  
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BLOCKS FOR MC  
VACUUM CHUCKS  
PROMELTA SYSTEM  
SINE BAR CHUCKS  
MAGNETIC BLOCKS  
WORKING TOOLS  
MEASURING TOOL HOLDERS  
MAGNETIC HOLDERS  
MAGNETIC TOOLS