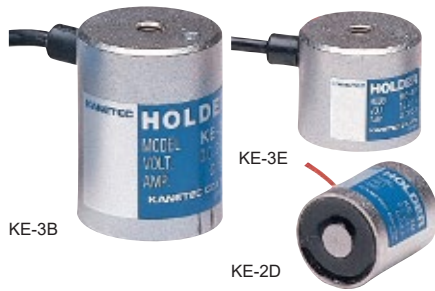




Model KE-B.D.E ELECTROMAGNETIC HOLDER



Rectifier required additionally

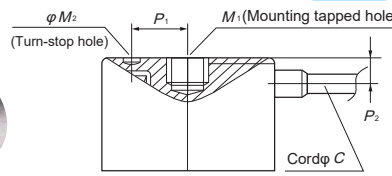


Application

These holders are suitable for a wide range of operations such as feeding materials on automatic press machines, preventing deflection of shearing materials, various automatic processes and hands of industrial robots.

Features

- Special cables that have specially high durability against bending and vibration are used. (Employed in all models except for KE-1B and KE-2D.)
- Electrical control can be used for turning on and off the magnetic force and for remote operation.
- Usable continuously.
- Finished by plating.



<KE-3-9B, KE-3-6E>

A type of cord on the top face spec. (KE-B/E-U) is also available.

Model	Nominal Size	Max. Holding Power	Mounting Hole			Power Cord		Voltage	Current	Working Rate	Applicable Rectifier	Mass
			M ₁	M ₂	P ₁	C	P ₂					
KE-1B	φ10 (0.39) ×30 (1.18)	8N (0.8kgf)	M4 (0.15) ×0.7 (0.02) Depth 6 (0.23)	—	—	—	—	—6 VDC	0.18A	100% ED	KR-T101A-6/24 RH-M303A-6/24, -C1, -C2	15g/ 0.03 lb
KE-2B	φ20 (0.78) ×40 (1.57)	28N (2.8kgf)	M6 (0.23) ×1.0 (0.03) Depth 12 (0.47)	φ4 (0.15) Depth 2 (0.07) Depth 3 (0.11)	10 (0.39) 15 (0.59)	φ3.7 (0.14)	7 (0.27)	24 VDC	0.07A		KR-T101A-6/24 RH-M303A-6/24, -C1, -C2 RH-M105B-24	60g/ 0.13 lb
KE-3B	φ30 (1.18) ×40 (1.57)	180N (18kgf)					8 (0.31)		0.19A			150g/ 0.33 lb
KE-4B	φ40 (1.57) ×40 (1.57)	400N (40kgf)	M8 (0.31) ×1.25 (0.04) Depth 15 (0.59)	φ5 (0.19) Depth 4 (0.15)	18 (0.70) 20 (0.78)	φ6.2 (0.24)	8.5 (0.33)	90 VDC	0.24A		KR-N101A RH-M210B KR-N103A RH-M102C RH-M105B RH-M205B	300g/ 0.66 lb
KE-5B	φ50 (1.96) ×50 (1.96)	590N (60kgf)					10 (0.39)		0.12A			560g/ 1.23 lb
KE-6B	φ60 (2.36) ×60 (2.36)	1080N (110kgf)	M10 (0.39) ×1.5 (0.05) Depth 15 (0.59)	φ6 (0.23) Depth 6 (0.23)	20 (0.78)		12 (0.47)		0.19A			1.0kg/ 2.20 lb
KE-7B	φ70 (2.75) ×60 (2.36)	1470N (150kgf)					15 (0.59)		0.20A			1.4kg/ 3.08 lb
KE-8B	φ80 (3.15) ×60 (2.36)	1960N (200kgf)					15 (0.59)		0.26A			1.7kg/ 3.74 lb
KE-9B	φ90 (3.54) ×60 (2.36)	3230N (330kgf)					15 (0.59)		0.35A			2.2kg/ 4.85 lb

Cord length 0.3 m (0.25 m lead for KE-1B only)

The max. holding power of Models KE-1B to 4B is based on a test piece of SS400, 10 mm thick, ground surface held on the whole area, and that of KE-5B to 9B, a test piece of SS400, 20 mm thick, ground surface held on the whole area. For KE-3B to 9B, a drip-proof type is also available.

Model	Nominal Size	Max. Holding Power	Mounting Hole			Power Cord		Voltage	Current	Working Rate	Applicable Rectifier	Mass
			M ₁	M ₂	P ₁	C	P ₂					
KE-2D	φ20 (0.78) ×25 (0.98)	18N (1.8kgf)	M4 (0.15) ×0.7 (0.02) Depth 8 (0.31)	φ2.1 (0.08) Depth 2.5 (0.09)	7.5 (0.29)	—	—	24 VDC	0.04A	100% ED	KR-T101-6/24 RH-M303A-6/24, -C1, -C2 RH-M105B-24	30g/ 0.06 lb
KE-3E	φ30 (1.18) ×25 (0.98)	80N (8kgf)	M6 (0.23) ×1.0 (0.03) Depth 12 (0.47)	φ4 (0.15) Depth 2 (0.07) Depth 3 (0.11)	10 (0.39) 15 (0.59)	φ3.7 (0.14)	7.5 (0.29)	24 VDC	0.09A		KR-T101-6/24 RH-M303A-6/24, -C1, -C2 RH-M105B-24	100g/ 0.22 lb
KE-4E	φ40 (1.57) ×25 (0.98)	220N (22kgf)					8 (0.31)		0.12A			190g/ 0.42 lb
KE-5E	φ50 (1.96) ×30 (1.18)	490N (50kgf)	M8 (0.31) ×1.25 (0.04) Depth 15 (0.59)	φ5 (0.19) Depth 3 (0.11) 18 (0.70)	20 (0.78)		9.5 (0.37)	90 VDC	0.05A		KR-N101A RH-M105B KR-N103A RH-M205B RH-M102C RH-M210B	380g/ 0.83 lb
KE-6E	φ60 (2.36) ×30 (1.18)	880N (90kgf)					11 (0.43)		0.07A			500g/ 1.10 lb

1N 0.1kgf

Model RH-M ELECTROMAGNETIC HOLDER HIGH-SPEED CONTROLLER

Dedicated to electromagnetic holders



RH-M102C

Application

These are breakthrough electric products that can make standard electromagnetic holders respond to higher-speed motion of workpiece handling by robot hands, etc.

Features

- The residual holding power, a factor to delay workpiece attaching and detaching operations, can be eliminated quickly to speed up the lines that use standard electromagnetic holders. (The demagnetizing time may become longer depending on materials of workpieces.)
- These controllers can be used to attract and transfer stacked plates one by one or to pick up parts stored in a bucket one by one by adjusting the voltage.

RH-M303A-6/24 Series

Features

- The employment of FET in the output circuit ensures high-speed and consistent demagnetization performance. This Series also withstands frequent usage.
- The PWM output control provides consistent output voltages not affected by voltage fluctuation and difference of power source frequency at very weak output setting.
- A wide range of power source from 100 VAC to 220 VAC can be used.
- The rated output voltage can be selected between 24 V and 6 V with a dip switch. (KE-1B also supported.)
- The demagnetization function is incorporated. (Alternate attenuation and reverse excitation can be selected with a dip switch.)
- A weak magnetization adjust function is incorporated.

										[mm (in.)]
Model	Input/Output			Dimensions			Demag. Function	Applicable Holder	Mass	
	Voltage	Voltage	Current	Width	Depth	Height				
RH-M303A-6/24	Single-phase 100 VAC 220 VAC, 50/60 Hz	0—24 VDC/ 0—6 VDC	3A	55 (2.17)	160 (6.30)	175 (6.89)	Provided	6V KE-1B	0.8kg/ 1.76 lb	
RH-M303A-6/24-C1				70 (2.76)	180 (7.09)	205 (8.07)		24V KE-2B—4B KE-2D—4E KE-2R—4RA KE-KA KE-V306—312 KEP-3C—9C,K5	1.7kg/ 3.75 lb	
RH-M303A-6/24-C2				175 (6.89)	100 (3.94)	190 (7.48)			2.5kg/ 5.51 lb	
RH-M102C				0—90 VDC	2A	145 (5.70)		175 (6.88)	260 (10.2)	90V KE-5B—9B KE-5E,6E KE-V510—830 KE-M
RH-M105B-24	Single-phase 100 VAC 50/60Hz	0—24 VDC	5A	170 (6.69)	290 (11.4)	24V KE-2B—4B KE-2D—4E KE-KA KE-V306—312 KE-2R—4RA			4.5kg/ 9.92 lb	
RH-M105B		0—90 VDC		90V KE-5B—9B KE-5E,6E KE-V510—830 KE-M		6.0kg/ 13.2 lb				
RH-M205B		0—90 VDC								
RH-M210B	Single-phase 200 VAC 50/60Hz	0—90 VDC	10A	282 (11.1)						



RH-M303A-6/24

[Type installed inside panel]
A simple construction of PWB and chassis suitable for installation inside the machine power source panel.



RH-M303A-6/24-C1

[Cover type]
A type having a dedicated cover added to the type installed inside panel. A power indicator lamp is provided on the panel.



RH-M303A-6/24-C2

[Type housed in case]
The base construction is the type installed inside panel. This is placed in a dedicated case to enable installation on the side face of a machine. This type is equipped with a power indicator lamp, voltmeter, magnetic force adjust variable resistor and demagnetizing variable resistor.