	DMAGNETIC
CONTROL	CHUCK
CONTROLLERS MAGNE	PERMA

ETIC CHUCKS : ELECTROMAGNETIC CHUCKS

List of	perm	anent mag	netic hold	ers			
Size	Height	OD "h" Tolerance	Plating	Painting	Peripheral Knurling	Stainless Steel Spec.	Heat-Resistance Spec.
ф 5	× 8	KM-0005					
φ 5	×13		KM-0005L				
	× 8	KM-0007					
φ 7	×13		KM-0007L				
	× 8		KM-0010H		KM-0010J	KM-0010H-SUS	
ϕ 10	×15	KM-H001	KM-001				
	×18		KM-T001				
φ15	×15	KM-H0015	KM-0015				
φισ	×18		KM-T0015				
φ18	× 8		KM-0018H		KM-0018J	KM-0018H-SUS	
φ20	×15	KM-H002	KM-002				
Ψ20	×18		KM-T002				
φ25	×10		KM-0025H		KM-0025J	KM-0025H-SUS	
φ26	×25	KM-H0025		KM-025C			
Ψ20	×30		KM-T0025				
φ30	×25			KM-03C			
φου	×33		KM-T003				
φ40	×30			KM-04C			
φ 40	×40						KM-T004T
φ50	×40			KM-05C			
φ50	×45						KM-T005T
φ70	×40			KM-07C			
φ80	×45			KM-08C			
26×26	×25			KM-025S			
26×60	×25			KM-06S			

32 Ī H₂ H2 42 dΩ фΩэ φD- $\overline{D_1}$ KM-0005 KM-05C KM-025S KM-06S KM-07C KM-0007 KM-001 KM-08C KM-0015 KM-0005L KM-002 KM-0007L KM-025C КМ-Н KM-03C KM-T KM-04C

** The holding power may drop when the holder is worked on additionally. In particular, additional work in the radial direction has large influence on the holding power and therefore, must be limited to a minimum necessary scope

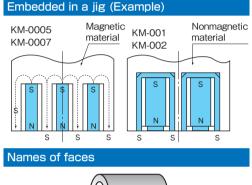
area.....Additionally workable.

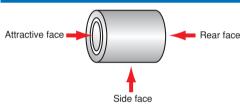
[Application]

Can be used to hold down drawings, rules and paper patterns. The holders with a tapped hole on the back can be used widely by installing them on jigs. Can be incorporated in press dies. Can hold workpieces during wire cutting.

[Features]

- Six types of specifications; OD tolerance, plating, painting, peripheral knurling, stainless steel spec. and heat-resistance spec. are available for selection according to applications.
- By matching the OD "h" tolerance, the holders can be incorporated in dies.
- A tapped hole on the back makes the holders useful in various applications.





Upper limit of working temperature

The holding power drops as body temperature rises. The following types are available. The original holding power returns to the original level when the temperature drops to normal temperature.

■Type A (Alnico magnet used)

Superior in terms of temperature. The holding power as high as 85% can be maintained at 350°C when the holding power at 20°C is 100%. This type can be used up to 400°C intermittently for a short period of time.

■Type B (Samarium-cobalt type rare earth magnet used)

The holding power drops to about 95% at 100°C and to about 85% at 200°C when the holding power at 20°C is 100%. For continuous use, the upper limit is 150°C and for intermittent use for a short period of time, this type may be used up to 200°C.

■Type C (Neodymium rare earth magnet used)

The holding power drops to about 85% at 50°C and to about 70% at $100^\circ\!C$ when the holding power at $20^\circ\!C$ is 100%. The upper limit for continuous use is 100°C.



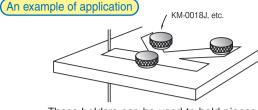


indicates the attractive face.









These holders can be used to hold pieces cut out by wire cutting to prevent them from moving or falling from the securing area.

OD "h" tolerance specification

					[mm (in)]	
Workable R	lange		Upper Limit of Working	Tapping	Mass	
D ₂ H ₁ H		H ₂	Temp.			
4.5(0.17)			Tumo D	Not allowed.	1.5g/0.003 lb	
6.5(0.25)	_	_	Type B	inot allowed.	2.5g/0.005 lb	
9.5(0.37)	9.5(0.37)				Prepared hole up to	11g/0.024 lb

Model	Dimensions			Tioluling Surface		Tapped		Workable Range				Tapping	Mass
	OD × Height	"h" tolerance	Height tolerance	Power	Treatment	Hole	D ₁	D ₂	H ₁	H ₂	of Working Temp.	1 444	
KM-0005	ϕ 5(0.19)h7(0.27) × 8(0.31)	-0.012		0.3N (0.03kgf)			5(0.19)	4.5(0.17)			Type B	B Not allowed	1.5g/0.003 lb
KM-0007	ϕ 7(0.27)h7(0.27) × 8(0.31)	-0.015		0.4N (0.04kgf)		None None	7(0.27)	6.5(0.25)] -	_	туре в		2.5g/0.005 lb
KM-H001	ϕ 10(0.39)h9(0.35)×15(0.59)	-0.036	_	8N (0.8kgf)			10(0.39)	9.5(0.37)				food allowed	11g/0.024 lb
KM-H0015	ϕ 15 (0.59) h9 (0.35) × 15 (0.59)	-0.043	0 -0.1	20N (2kgf)	None		15(0.59)	14(0.55)	15 (0.59)				20g/0.044 lb
KM-H002	ϕ 20 (0.78) h9 (0.35) × 15 (0.59)	-0.052		40N (4kgf)			20(0.78)	18(0.70)	(0.00)				40g/0.088 lb
KM-H0025	φ26(1.02)h9(0.35) ×25(0.98)	-0.052		100N (10kgf)	1		26(1.02)	24(0.94)	25 (0.98)	21 (0.82)		Prepared hole up to 4.0 deep on the rear face allowed.	100g/0.222 lb

radial direction has large influence on the holding power and therefore, must be limited to a minimum necessary scope.

Plating specification

[mm (in)]

	05	Н	olding	Surface	Mounting		Workabl	e Range			- .		
Model	OD × Height	Po	ower	Treatment	Tapped Hole	D ₁	D ₂	H ₁	H₂	WorkingTemp.	Tapping	Mass	
KM-0005L	ϕ 5(0.19) ×13(0.51)	1.8N	(0.18kgf)			_	_	13(0.51)	12(0.47)	Type A		2g/0.004 lb	
KM-0007L	ϕ 7(0.27)×13(0.51)	4N	(0.4kgf)			7 (0.27)	6.5 (0.25)	13(0.51)	12(0.47)	Type A	Not allowed.	3.8g/0.008 lb	
KM-0010H	ϕ 10(0.39)×8 (0.31)	3N	(0.3kgf)		None	_	_	_	_	Type B		5g/0.011 lb	
KM-001	ϕ 10(0.39)×15(0.59)	8N	(0.8kgf)			10 (0.39)	9.5(0.37)	15(0.59)		Type A	Prepared hole up to 3.0 deep on the rear face allowed.	11g/0.024 lb	
KM-T001	$\phi 10(0.39) \times 18(0.70)$	OIN	(U.okgi)		M5 (0.19) Depth5 (0.19) pitch0.8 (0.03)	10(0.39)	9.5(0.37)	18(0.70)	12(0.47)		Provided.	12g/0.026 lb	
KM-0015	ϕ 15(0.59) ×15(0.59)	20N	(2kgf)	Nickle	None	15 (0.59)	14(0.55)	15(0.59)	12(0.47)	Type A	Prepared hole up to 3.0 deep on the rear face allowed.	20g/0.044 lb	
KM-T0015	$\phi 15(0.59) \times 18(0.70)$	ZUIN	(ZKgI)	plating	M5 (0.19) Depth5 (0.19) pitch0.8 (0.03)	15 (0.59)	14(0.55)	18(0.70)			Provided.	23g/0.051 lb	
KM-0018H	ϕ 18(0.70)×8 (0.31)	50N	(5kgf)	piatirig	None	_	_	_	_	Type B	Not allowed.	16g/0.035 lb	
KM-002	ϕ 20(0.78) ×15(0.59)	40N	(4kgf)		None	20 (0.78)	18(0.70)	15(0.59)	12(0.47)	Type A	Prepared hole up to 3.0 deep on the rear face allowed.	40g/0.088 lb	
KM-T002	ϕ 20(0.78) ×18(0.70)	4011	(4KgI)		M5 (0.19) Depth5 (0.19) pitch0.8 (0.03)	20(0.76)	18(0.70)	18(0.70)	12(0.47)	Type A	Provided.	45g/0.100 lb	
KM-0025H	ϕ 25(0.98) ×10(0.39)	90N	(9kgf)		None	_	_	_	_	Type B	Not allowed.	38g/0.083 lb	
KM-T0025	φ26(1.02) ×30(1.18)	100N	(10kgf)		M6 (0.23) Depth1 0 (0.39) pitch1.0 (0.03)	26 (1.02)	24 (0.94)	30(1.18)	21 (0.82)	Type A	Provided.	120g/0.266 lb	
KM-T003	φ30(1.18) ×33(1.29)	150N	(15kgf)		M6 (0.23) Depth8 (0.31) pitch1.0 (0.03)	30(1.18)	27(1.06)	33(1.29)	28(1.10)	Type A	Flovided.	180g/0.400 lb	

^{**}The holding power is based on a test piece of SS400, 10 mm thick, ground surface. **The holding power may drop when the holder is worked on additionally. In particular, additional work in the radial

Peripheral knurling specification

[mm (in)]

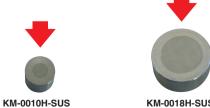
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Model	OD × Height	Holding Power	Surface Treatment	Mounting Tapped Hole	Upper Limit of Working Temp.	Feature	Mass
KM-0010J	φ10(0.39) ×8(0.31)	3N (0.3kgf)		None	Type B	Peripheral knurling	5g/0.011 lb
KM-0018J	φ18(0.70) ×8(0.31)	50N (5kgf)	Nickle plating				16g/0.035 lb
KM-0025J	φ25 (0.98) ×10 (0.39)	90N (9kgf)					38g/0.083 lb

^{*}The holding power is based on a test piece of SS400, 10 mm thick, ground surface.

Stainless steel to resist rusting. First in the industry!

indicates the attractive face.









Comparison in pure water (Left: Made of stainless steel)

KM-0018H-SUS KM-0025H-SUS

Working up to 0.5 mm allowed on the attractive face.

Stainless steel specification

Lmm	(in)	

	O Call III														
I	Model	OD × Height	Holding Power	Surface Treatment	Mounting Tapped Hole	Upper Limit of Working Temp.	Tapping	Mass							
ı	KM-0010H-SUS	$\phi 10(0.39) \times 8(0.31)$	3N (0.3kgf)					5g/0.011 lb							
	KM-0018H-SUS	ϕ 18(0.70) ×8(0.31)	50N (5kgf)	None	None	Type B	Not allowed.	16g/0.035 lb							
ı	KM-0025H-SUS	$\phi 25(0.98) \times 10(0.39)$	90N (9kgf)					38g/0.083 lb							

PERMANENT MAGNETIC HOLDER Model KM



Painting specification

all all	airting specification [mm(in)]												
Model	OD × Height	OD X Hoight Holding		Mounting		Workabl	le Range		Upper Limit of	Tapping	Mass		
Model	OD A Height	Power	Treatment	Tapped Hole	D1	D2	H ₁	H ₂	Working Temp.	гарріпів	IVIGSS		
KM-025C	ϕ 26 (1.02) × 25 (0.98)	100N(10kgf)		M 6(0.23),depth 8(0.31)	26(1.02)	25 (0.98)	25 (0.98)	17(0.66)			90g/0.19 lb		
KM-03C	ϕ 30 (1.18) \times 25 (0.98)	150N(15kgf)		pitch1.0 (0.03)	30(1.18)	27(1.06)	25(0.96)	17 (0.00)			121g/0.26 lb		
KM-04C	$\phi 40(1.57) \times 30(1.18)$	300N(30kgf)		M 8(0.31),depth 12(0.47) pitch1.25(0.04)	40 (1.57)	36(1.41)	30 (1.18)		Type C (See page 81)		260g/0.57 lb		
KM-05C	ϕ 50 (1.96) × 40 (1.57)	500N (50kgf)			50 (1.96)	46(1.81)					545g/1.20 lb		
KM-07C	ϕ 70 (2.75) × 40 (1.57)	700N(70kgf)	Painting	M12(0.47),depth 15(0.59) pitch1.75(0.06)	70 (2.75)	60 (2.36)	40(1.57)				1000g/2.20 lb		
KM-08C	$\phi 80(3.14) \times 45(1.77)$	1000N (100kgf)		M12(0.47),depth 18(0.70) pitch1.75(0.06)	80 (3.14)	66 (2.59)	45(1.77)	27(1.06)			1600g/3.52 lb		
KM-025S	26(1.02) ×26(1.02) ×25(0.98)	100N(10kgf)		None	26 (1.02)					Prepared hole up to 11 deep on the rear face allowed.	118g/0.26 lb		
			1	MC(0.00) death 10(0.00)		125(0.98)	25(0.98)	15(0.59)	1				

60 (2.36)

pitch1.0

HEAT-RESISTANT PERMANENT MAGNETIC HOLDER

M6 (0.23) depth 10 (0.39)

indicates the attractive face.

26(1.02) ×60(2.36) ×25(0.98)



A heat-resistant type introduced to permanent magnetic holders!

Provided

275g/0.60 lb

[Application]

Most suitable as a securing fixture in workplaces where heat is generated such as ship building and welding sites. These holders can also be used to hold down drawings, rulers and small parts.

[Features]

●Heat resistance up to 350°C

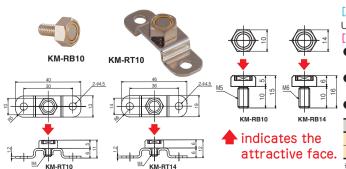
The tapped hole provided on the back widens a scope of use by assembling these holders to fixtures. [mm(in)]

Model	OD×Height	Holding Power	Surface Treatment	Mounting Tapped Hole	Upper Limit of Working Temp.	Tapping	Mass
KM-T004T	$\phi 40(1.57) \times 40(1.57)$	300N(30kgf)	Painting	M8(0.31) depth10(0.39)	Max. 350°C	Provided.	0.4kg/0.88 lb
KM-T005T	ϕ 50 (1.96) × 45 (1.77)	500N(50kgf)	Painting	pitch1.25 (0.04)	IVIAX. 350 C	Provided.	0.67kg/1.47 lb

*The holding power is based on a test piece of SS400, 10 mm thick, ground surface.

HEXAGONAL PERMANENT MAGNETIC HOLDER (WITH MALE THREAD)

HEXAGONAL PERMANENT MAGNETIC HOLDER (WITH PLATE)



[Application]

ΚI

Used as a jig. Used for operations of conveying light weight workpieces in lines, etc. [Features]

- The tip of the permanent magnetic holder is threaded, which enables the holder to be mounted in any place easily.
- When used in combination with the included plate, the holder can be mounted in
- places where a tapped hole cannot be made. (Model KM-RT) Since this holder has been nickel plated, it can be used under various circumstances.

Model	Holding Power	Mass	Model	Holding Power	Mass
M-RB10	10N (1kgf)	5g/0.011 lb	KM-RT10	10N (1kgf)	10g/0.022 lb
M-RB14	40N (4kgf)	10g/0.022 lb	KM-RT14	40N (4kgf)	18g/0.039 lb

The holding power is based on a test piece of SS400, 10 mm thick, ground surface