

DOWEL PINS (PACKAGE PRODUCTS) / DOWEL PIN EXTRACTORS

MAGNETS / HEAT RESISTANT MAGNETS

Ⓜ Non JIS material definition is listed on P.1351 - 1352

h7 type with tapping
100PACK—MSTH(100)
200PACK—MSTH(200)

RoHS

When L=10, the tap on D5/D6 is a through hole.

Order

Part Number

PACK Type D L

100 PACK—MSTH (For 100 pcs.) 6 20

200 PACK—MSTH (For 200 pcs.) 6 20

Material: SUJ2, 45~50HRC

l ₁	l ₂	M×P	l	Dh7	Part Number		L		
					PACK	Type	D	L	
1.5	0.3	M3×0.5	*6	0	-0.012	100PACK (contains 100pcs.)	MSTH	5	10 15
								6	10
2.0	0.3	M4×0.7	6	0	-0.012	100PACK (contains 100pcs.)	MSTH	8	15 20 25 30
								8	
2.0	0.5	M5×0.8	8	0	-0.015	200PACK (contains 200pcs.)	MSTH	8	20 30 40
								10	
2.5	0.5	M6×1.0	10	0	-0.015	200PACK (contains 200pcs.)	MSTH	10	30 40

* l=6 is a reference value when D=5.

Order

Part Number

PACK Type D L

(For 100 pcs.) 100 PACK—MSTH 6 20

(For 200 pcs.) 200 PACK—MSTH 6 20

Days to Ship

Quotation

Dowel Pin Extractors

RoHS

KNHN (1) Body + (2) Each of the holder caps

KNHN—B (For 1 only)

KNHN—M (For 2 only)

Order

Part Number

KNHN (1+2) Quotation

KNHN—B (For 1 only) Quotation

KNHN—M (For 2 only) Quotation

Usage

1. Insert a socket head cap screw (CB) into a holder cap.
2. Attach the holder cap (2) on top of this extractor.
3. Rotate the extractor's knurled shaft and attach the screw to the dowel pin to be extracted.
4. Slide the hammer and extract the dowel pin.

Slide Hammer Knurled shaft (2) Holder cap

CB (socket head cap screw) P.1185

Part Number	U/Price	Slide Unit Price
KNHN (1+2)	1~9 Set	10~20
KNHN—B (For 1 only)	1~9	10~20
KNHN—M (For 2 only)	4	5
	5	6
	6	8
	8	10

Days to Ship

Quotation

RoHS

MG

① SUM24L ③ Brass (C3604BD)
 ② Alnico magnet Heat resistant temperature 80°C

L	M×P	Adsorptivity* N(kgf)	Surface magnetic flux density Gauss [G]	d ₁	d ₂	B	C	H	t	Part Number Type	U/Price D 1~19
15	M5×0.8	5.9 { 0.6 }	1100~1300	6	8	7	0.5	5	2.5	MG	10
											13
20	M6×1.0	15.7 { 1.6 }	1200~1400	10	13	10	1.0	6	3.5	MG	16
											20
25	M8×1.25	29.4 { 3.0 }	1200~1500	13	16	12	1.5	9	6.5	MG	25
											28
30	M8×1.25	44.1 { 4.5 }	1300~1700	15.5	18	13	1.5	9	6.5	MG	25
											28

Load (kgf)=Load N×0.101972 * Adsorptivity: Refer to the figure below.

Magnet section cannot be altered since it will be damaged.

Magnets and holders are fixed with adhesive.

RoHS

MGN (Strong rust-prevention type)

① SUM24L ③ Electroless nickel plated
 ② Rare earth magnet Heat resistant temperature 80°C

L	M×P	Adsorptivity* N(kgf)	Surface magnetic flux density Gauss [G]	d ₁	B	C	l	Part Number Type	U/Price D 1~19
10	M3×0.5	2.9 { 0.3 }	3000~3200	4.0	2.0	0.3	6	MGN	6
									8
15	M5×0.8	15.6 { 1.6 }	3200~3400	7.0	1.5	0.5	10	MGN	13
									16
20	M6×1.0	36.2 { 3.7 }	3500~3700	9.5	2.0	1.0	12	MGN	20
									25
25	M8×1.25	58.8 { 6.0 }	3100~3300	12.5	1.6	1.5	16	MGN	25
									28
30	M8×1.25	112.7 { 11.5 }	3500~3700	16.5	3.0	1.5	18	MGN	25
									28

Load (kgf)=Load N×0.101972 * Adsorptivity: Refer to the figure below.

Magnet section cannot be altered since it will be damaged.

Magnets and holders are fixed with adhesive.

RoHS

HX HXH (For high temperatures)

① SUM24L ② Cobalt Magnet
 ③ Low-temperature black chrome plating Heat resistant temperature 80°C 200°C

L	M×P	Adsorptivity* N(kgf)	Surface magnetic flux density Gauss [G]	d ₁	d ₂	B	H	Part Number Type	U/Price D HX HXH 1~19
6	M3×0.5	2.9 { 0.3 }	2100~2600	4	5	2.0	1.5	HX	6
									8
8	M4×0.7	9.8 { 1.0 }	2100~2300	7	8	1.5	1.1	HXH	10
									13
10	M5×0.8	29.4 { 3.0 }	2200~2400	9.5	11	2.0	1.6	HXH	16
									20
13	M6×1.0	49.0 { 5.0 }	2200~2500	12.5	14	3.0	2.6	HXH	25
									25

Load (kgf)=Load N×0.101972 * Adsorptivity: Refer to the figure below.

Magnet section cannot be altered since it will be damaged.

Magnets and holders are fixed with adhesive.

The magnetic surface is recessed by 0.1~0.3 from the case.

RoHS

HXU HXUH (For high temperatures)

① SUM24L ② Cobalt Magnet ③ Brass (C3604BD)
 ④ Low-temperature black chrome plating Heat resistant temperature 80°C 200°C

L	M×P	Adsorptivity* N(kgf)	Surface magnetic flux density Gauss [G]	d ₁	d ₂	B	H	Part Number Type	U/Price D HXU HXUH 1~19
8	M3×0.5	3.9 { 0.4 }	2100~2600	4	5	2	1.6	HXU	6
									8
10	M4×0.7	14.7 { 1.5 }	2700~2900	7	8	3	2.1	HXUH	10
									13
13	M5×0.8	34.3 { 3.5 }	2800~3100	9.5	11	4	3.1	HXUH	16
									20
15	M6×1.0	58.8 { 6.0 }	2900~3300	12.5	14	6	5.1	HXUH	25
									25

Load (kgf)=Load N×0.101972 * Adsorptivity: Refer to the figure below.

Magnet section cannot be altered since it will be damaged.

Magnets and holders are fixed with adhesive.

RoHS

HXMB

① Cobalt Magnet Heat resistant temperature 200°C

T	Adsorptivity* N(kgf)	Surface magnetic flux density Gauss [G]	Part Number Type	U/Price D 1~19
2	1.0 { 0.10 }	2000~2100	HXMB (Heat Resistance: 200°C)	3
	1.5 { 0.15 }			4
	3.9 { 0.40 }			5
1.5	6.9 { 0.70 }	2200~2400	HXMB	7

Load (kgf)=Load N×0.101972 * Adsorptivity: Refer to the right figure.

Please handle with care since magnets are very fragile.

Magnets should be fixed with adhesives.

Magnets are fragile and should be fixed so that they do not project out of holder.

In order to prevent damage to the magnet, the magnet section is set back about 0.1~0.3 in the holder.

Magnets and holders are fixed with adhesive.

Adhesives

0.1~0.3

(MGN · HX · HXH · HXU · HXUH)

SS400

N (kgf) Adsorptivity