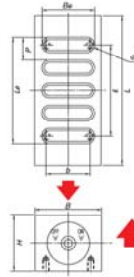


Model MMZ ONE-FACE HOLDING RECTANGULAR PERMANENT MAGNETIC MINI CHUCK



[Application]

These chucks are used in combination with a magnetic chuck as an auxiliary holding tool for irregularly shaped workpieces in grinding and light duty cutting. These chucks are of drip-proof construction enabling them to hold workpieces in electric discharge machining fluid.

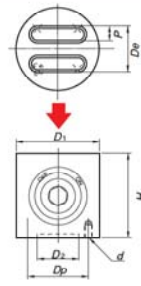
[Features]

- The magnetic force can be turned ON and OFF from either the front side or the rear side.
- The chucks can be used in fluid.

Model	Holding Power	Attractive Face				Pole Pitch			Mounting Face			Height H	Handle Hole	Mass
		B	L	Be	Le	P	b	ℓ	d					
MMZ-412A	300N (30kgf)	40 (1.57)	115 (4.52)	29 (1.14)	86 (3.38)	15 (1.5+8+1.5+4)	0.59 (0.05+0.31+0.05+0.15)	30 (1.18)	65 (2.55)	4-M5 (0.19) depth 7 (0.27)	40 (1.57)	Nominal 6 (0.23)	1.2kg/2.6 lb	
MMZ-614A	800N (80kgf)	60 (2.36)	135 (5.31)	48 (1.88)	92 (3.62)	19.5 (2+10+2+5.5)	0.76 (0.07+0.39+0.07+0.21)	42 (1.65)	72 (2.83)	4-M6 (0.23) depth 10 (0.39)	50 (1.96)		2.6kg/5.7 lb	

※ The holding power is based on a test piece of □50 × t25, S15C. ※ A hex wrench key is included.

Model MMC ONE-FACE HOLDING ROUND PERMANENT MAGNETIC MINI CHUCK



[Application]

These chucks are used in combination with a magnetic chuck as an auxiliary holding tool for irregularly shaped workpieces in grinding and light duty cutting. (These chucks cannot be used in wet operations.) They can also be used for such applications as holding workpieces in advance to reduce the setup time. Thus they can be used for continuous grinding of small and thin workpieces.

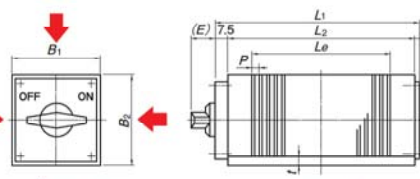
[Features]

- These chucks are of powerful type having a special construction using Alnico magnet steel.
- Small, but the magnetic force can be turned on and off.

Model	Holding Power	Attractive Face		Pole Pitch		Mounting Face			Height H	Handle Hole	Mass
		D ₁	D _e	P	D _p	D ₂	d				
MMC-5A	85N (8.5kgf)	50 (1.96)	29 (1.14)	9.5 (1.5+8)	0.37 (0.06+0.31)	35 (1.37)	25 (0.98)	4-M5 (0.19) depth 7 (0.27)	50 (1.96)	Nominal 8 (0.31)	0.7kg/1.5 lb
MMC-8A	500N (50kgf)	80 (3.15)	54 (2.12)	10 (2 + 8)	0.39 (0.08+0.31)	60 (2.36)	50 (1.96)	4-M6 (0.23) depth 10 (0.39)	65 (2.55)		2.2kg/4.8 lb

※ The holding power is based on a test piece of □50 × t25, S15C. ※ A hex wrench key is included.

Model MMW THREE-FACE HOLDING PERMANENT MAGNETIC MINI CHUCK



[Application]

These chucks have three attractive faces and can be used in combination with a magnetic chuck. They are suitable for setting angles of small workpieces and angle grinding.

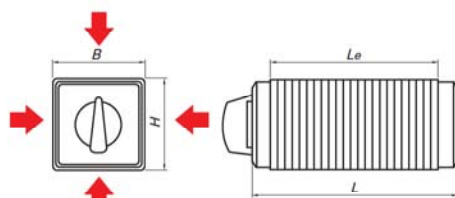
[Features]

- Since these chucks have three attractive faces, one face may be used for mounting the chuck and other faces for holding workpieces.
- They have magnetic poles arranged at micro pitches to hold small workpieces.
- Drip-proof construction.

Model	Nominal Size	Holding Power	Dimensions						Pole Pitch P	Squareness	Parallelism	Mass	
			B ₁	B ₂	L ₁	L ₂	E	Le					
MMW-3F50A	55 (2.16) × 115 (4.52)	600N (60kgf)	55 (2.16)	55 (2.16)	125.5 (4.94)	115 (4.52)	20.5 (0.80)	90.5 (3.56)	10 (0.39)	1.5 (0.5+1.0)	0.01	0.02	2.8kg/6.2 lb
MMW-3F70A	70 (2.75) × 115 (4.52)	900N (90kgf)	70 (2.75)	70 (2.75)			25.5 (1.00)			0.05 (0.02+0.03)			4.0kg/8.8 lb

※ The holding power is based on a test piece of □50 × t25, S15C, ground surface, with nothing held on other faces.
 ※ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

Model MMXW FOUR-FACE HOLDING PERMANENT MAGNETIC MINI CHUCK



[Application]

These chucks are suitable for holding workpieces in such operations as grinding, boring, cutting, welding and assembly. Since four faces can hold workpieces simultaneously, they can be used as a magnet vice in a wide range of applications.

[Features]

- These are unique universal mini chucks capable of holding workpieces on four faces.
- They can be used in such a way as to hold workpieces on the bed of a machine tool or holding workpieces on the top and side faces simultaneously. They can also be used as a guide stopper to secure workpieces.
- The accuracy is as follows: flatness 0.01 mm, parallelism 0.02 mm, squareness 0.03 mm.
- Drip-proof construction.

Model	Holding Power		Dimensions			Pole Pitch	Height H	Mass
	2nd face after holding on one whole face	4th face after holding on three whole faces	B	Le	L			
MMXW-611A	400N (40kgf) or over.	60N (6kgf) or over.	64 (2.52)	112 (4.40)	136 (5.35)	4 (2+2)	64 (2.52)	3.5kg/7.7 lb

※ The holding power is based on a test piece of □50 × t25, S15C, ground surface, with nothing held on other faces.
 ※ Note that when workpieces are held on two or more faces simultaneously, the holding power of each face drops.

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