

# PERMANENT ELECTROMAGNETIC CHUCKS

## Model EP-QS3 RECTANGULAR PERMANENT ELECTROMAGNETIC CHUCK

### Very small magnetic pole type suitable for small and thin workpieces!

Environmentally friendly

Power saving

Minimal heat generation

Chuck controller required additionally

#### [Application]

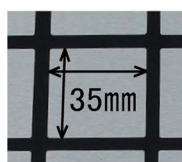
Used for securing workpieces during cutting by milling machines, machining centers, etc.

#### [Features]

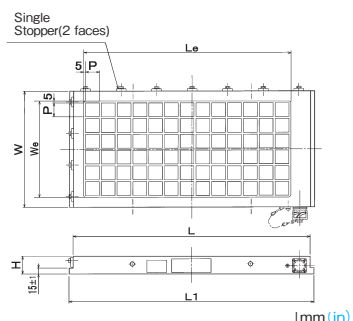
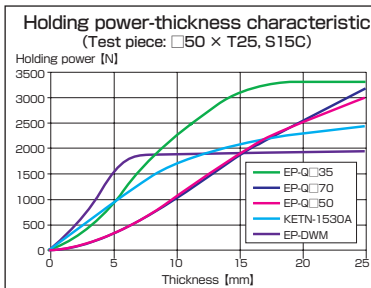
- Compared with conventional permanent electromagnetic chucks for cutting, this type has higher holding power on small and thin workpieces.
- Compared with conventional chucks, the residual holding power has been reduced to a third maximum.
- An original construction is employed to keep the height below 50 mm, thus realizing thin and light weight chucks.
- Electricity is supplied momentarily only when mounting and demounting workpieces, thus minimal heat is generated and highly precise machining can be expected. Also electricity is saved.
- Can be used in wet operations.
- The employment of a quick connector facilitates connection/removal of the cable.



EP-QS3-3060A



<Newly developed 35-mm square micro poles>



Model	Work Face		Pole Dimensions				Mounting Face		Height	Mass	Electro Chuck Master
	W	L	W <sub>e</sub>	L <sub>e</sub>	No. of Poles	P	W	L <sub>1</sub>			
EP-QS3-1732A	165 (6.49)	315 (23.6)	125 (4.92)	245 (9.64)	18	35 (1.37)	165 (6.49)	335 (13.1)	45 (1.77)	16kg/ 35 lb	EPS-P2100B
EP-QS3-2040A	205 (8.07)	400 (15.7)	165 (6.49)	325 (12.7)	32		205 (8.07)	420 (16.5)	45 (1.77)	26kg/ 57 lb	
EP-QS3-3060A	295 (11.6)	600 (23.6)	245 (9.64)	525 (20.6)	78		295 (11.6)	620 (24.4)	45 (1.77)	56kg/ 123 lb	
EP-QS3-4282A	415 (16.3)	820 (32.2)	365 (14.3)	745 (29.3)	162		415 (16.3)	840 (33.0)	50 (1.96)	120kg/ 264 lb	EPS-P2100B-2

※ The chuck controller and clamp parts are not included. ※ The KANETEC chucks work best when a KANETEC chuck controller is used.

※ Turning the permanent electromagnetic chucks on and off must be limited to once per several minutes. If on/off operations are repeated frequently, the chucks may be damaged by overheat.

## Model EPZF-WX PERMANENT ELECTROMAGNETIC CHUCK ACSHIM\*

Environmentally friendly

Power saving

Minimal heat generation

Patented Design registered

### Highly precise straightening operations realized!

#### [Application]

Most suitable for precise setting of workpieces including mold bases in the milling sector.

#### [Features]

- The sticks on the chuck attractive face hold workpieces in the natural state.
- The number of sticks can be increased/decreased according to workpieces.
- Electricity is supplied momentarily only when mounting and demounting workpieces, thus minimal heat is generated and highly precise machining can be expected. Also electricity is saved. In addition, this ACSHIM can be used not only for plate machining, but also for various machining operations that require workpieces to be held for a long time.
- The elimination of the lid of the stick section facilitates maintenance as there is no need to align the level of the body and the lid when replacing the stick unit.
- The utilization of T slots enables it to clamp nonferrous or irregular shaped workpieces.
- The low magnetic force control by the dedicated control unit (EPS-WF275A) offers a low attraction function.
- Can be used in wet operations.



EPZF-WX4280

(An example of special fabrication)

Chuck controller required additionally



A new construction to prevent occurrence of stick motion failure due to chips employed.



Model	Nominal Size	Work Face		Mounting Face			Height	Number of Sticks	Voltage	Mass	Dedicated Control Unit
		B	L	B	L <sub>1</sub>	t					
EPZF-WX50100	500 (19.6) × 1000 (39.3)	500 (19.6)	1000 (39.3)	500 (19.6)	1020 (40.1)	30 (1.18)	150 (5.90)	40	180 VDC	520kg/ 1146 lb	EPS-WF275A
EPZF-WX60100	600 (23.6) × 1000 (39.3)	600 (23.6)	1000 (39.3)	600 (23.6)	1020 (40.1)	30 (1.18)	150 (5.90)	48	180 VDC	620kg/ 1367 lb	

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Model	Power Source	Rated Output		Dimensions			Mass	Operation box		
		Voltage	Current	Width	Depth	Height		Width	Depth	Height
EPS-WF275A	Single-phase 200 VAC 50/60Hz	30 VDC ~ 180 VDC Low magnetic force: ±30 VDC (Continuous)	75A	1300 (51.1)	400 (15.7)	900 (35.4)	190kg/ 418 lb	200 (7.87)	70 (2.75)	180 (7.08)

