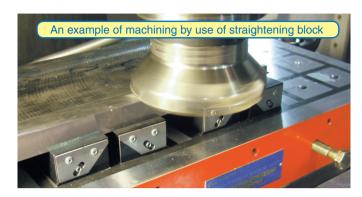
A Line-up of products selectable according to machining methods and workpieces.

- Considerable power saving and reduction in size of the Chuck Master by the renewed design.
- ■The detachable connector type is employed to respond to pallet changing.
- Electricity is used only when mounting and demounting workpieces. Workpieces can be held firmly in the event of power failure.
- ■Usable in wet machining operations.



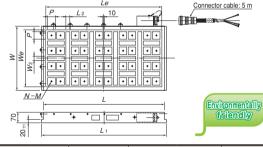


Suitable for securing workpieces during cutting on milling machines and machining centers.

- The power cord is of detachable connector type for easy use. The connector cap is of waterproof type.
- Can be used in wet machining operations.
- The chuck is very thin, 70 mm in height, and light weight.
- Less accuracy change and highly rigid construction.
- Considerable power saving compared with conventional products.
- (□70: 50% reduction, □50: 70% reduction)

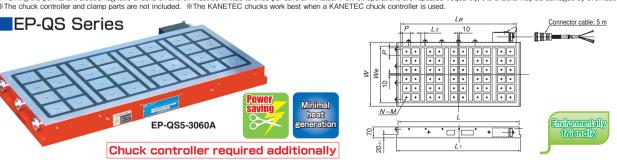
- Magnetization and demagnetization in a very short time.
- Tapped holes on the attractive face can be used to install various blocks to hold workpieces by various methods according to machining operations.
- Straightening blocks are also available that are mounted on the chuck work face to hold workpieces by an induction field. These optional products are very useful for workpieces having irregular attractive faces that for example have steps and distortion and for machining the bottom and side faces of workpieces. (See ■Options on page 32.)





															fulli (III)
	Stan	idard	Work	Face			Pole Dimer	nsions			Mounting Face	Tapped Hole on	Attractive Face	Mass Applicable	
Size I		Model	W	L	We	Le	Le No. of poles		W ₂	L ₂	L ₁	N	М	Mass	Chuck Master
		3060A	300(11.8)	610(24.0)	252 (9.92)	570 (22.4)	24		18(0.70)	16 (0.63)	630 (24.8)	24		90kg/198 lb	
	EP-QN5	4080A	420 (16.5)	800 (31.5)	372 (14.6)	760 (29.9)	40	50(1.96)	28(1.10)	25(0.98)	820 (32.2)	40	8(0.31)	160kg/352 lb	EPS-P2100B
	EP-QN5	50100A	500 (19.6)	960 (37.8)	432 (17.0)	917(36.1)	60	50(1.96)	18(0.70)	26(1.02)	000(00.5)	60	8(0.31)	230kg/507 lb	EPS-P2100B
		60100A	600 (23.6)	960 (37.8)	552(21.7)	917 (36.1)	72		24(0.94)	26(1.02)	980 (38.5)	72	1	280kg/617 lb	
		4080A	390 (15.3)	800 (31.5)	332 (13.0)	760 (29.9)	24			24 (0.94)	820 (32.2)	24		150kg/330 lb	EPS-P2100B
	EP-QN7	50100A 500(500 (19.6)		452 (17.8)	960 (37.8)	40	70 (2.75)	28(1.10)	25 (0.98)	1020 (40.1)	40	10 (0.39)	240kg/529 lb	EPS-P2100B-2
		60100A	620 (24 4)		572 (22.5)		50					50		300kg/661 lb	EPS-P2100B-2

*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.



ı	Standard		Work Face		Pole Dimensions				Mounting Face	Tapped Hole on	Attractive Face	Maga	Applicable		
Size Model		W	L	We	Le	No. of poles	P	L ₂	L ₁	N	М	Mass	Chuck Master		
ı		3060A	300 (11.8)	610(24.0)	252 (9.92)	570 (22.4)	32	50 (1.96)	16 (0.55)	630 (24.8)	32	8(0.31)	90kg/198 lb	EPS-P2100B	
	EP-QS5	4080A	420 (16.5)	800 (31.5)	372 (14.6)	760 (29.9)	60		25 (0.98)	820 (32.2)	60		160kg/352 lb		
	EP-Q55	50100A	500 (19.6)	960 (37.8)	432 (17.0)	017(36.1)	84		26 (1.02)	980 (38.5)	84		230kg/507 lb	EPS-P2100B-2	
		60100A	600 (23.6)		552(21.7)		108				108		280kg/617 lb		
	EP-QS7	3060A	300 (11.8)	600 (23.6)	252 (9.92)	562 (22.1)	18	70 (2.75)	25 (0.98)	620(24.4)	18		86kg/189 lb	EPS-P2100B	
		4080A	390 (15.3)	800 (31.5)	332 (13.0)	760 (29.9)	32		24 (0.94)	820 (32.2)	32	10 (0.39)	150kg/330 lb		
		50100A	470 (18.5)	1000(30/1) -	412 (16.2) 572 (22.5) 960 (37.8)	060 (27.9)	50	70(2.73)	25 (0.98)	1020 (40.1)	50	10(0.39)	220kg/485 lb	EPS-P2100B-2	
		60100A	620 (24.4)			900 (37.6)	70				70		300kg/661 lb		

■ Model designation

Chuck size CHUCK: EP-QN5-3060A N.....Normal (Ribs arranged between poles) Pole size S.....Strong (Poles arranged densely) (5…□50 7…□70)

- <Ordering information>
- Sizes other than standard sizes are also available.
- ■Larger sizes are available in the form of linked chucks. Please contact us.
- ■Round chucks are also available
- •When workpieces are hardened steel or special steel, they may be difficult to demount due to strong residual magnetism. In these cases, Model EP-D (P. 34) is recommended.

A guide for selection

General milling	Good holding conditions such as plate machining.	QN
Planomiller, horizontal M/C, use of straightening blocks, etc.	Poor holding conditions such as heavy duty cutting	QS

Selection of pole size □50 or □70

- lacktriangle The \Box 70 size is superior in the absolute holding power and gap characteristic.
- ●The □50 size is recommended for relatively small and thin workpieces. (The plate thickness of magnetic saturation is 20 to 25 mm for \square 50 and 30 to 35 mm for \square 70.)
- Relation between chuck models and holding power Comparison of holding power of chucks of same size



Holding power

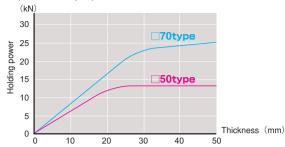
□50 generates the max. holding power of 2.94 kN (300 kgf) or over per pole and \square 70 generates 5.88 kN (600 kgf) or over per pole.

(An example of calculation)

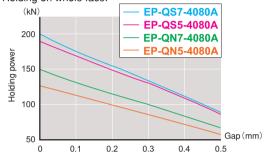
Max. holding power on whole attractive face of EP-QS5-4080A 2.94kN×60 (number of poles)=176.4kN {18000kgf}

■EP-Q type holding power characteristic

1. Relation between workpiece thickness and holding power Test piece held by 4 poles



2. Relation between gap and holding power Holding on whole face.

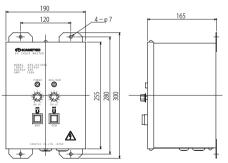


Model of special specification



■EPS-P EP Chuck Master* Compact design for limited installation space.





		[mm (in)]				
Model	EPS-P2100B EPS-P2100B-2					
Dimensions (W×H×D)	190 (7.48) ×165 (6.5) ×255 (10.0)					
Power source	Single-phase, 200 VAC 50/60 Hz					
Output capacity	10 VDC - 90 VDC pulse 100 A					
Output switchover	No switchover	2				
Magnetizing time (approx.) • demagnetizing time (approx.)	1 sec.	3 sec.				
Breaker capacity (ref.)	30	A				
Mass	7.5kg (16.5)	7.6kg(16.7)				

*The power cable must be larger than 3.5 mm² and less than 10 m.







KT-Q50N

Movable