

## **ELECTRO PERMANENT MAGNETIC MILLING CHUCK**



Electro permanent magnetic (EPM) milling chuck is the best magnetic clamping tool at present, which use electro pulse to (de)magnetize. It is safe and reliable when workpiece is clamped by magnetic chuck in mechanical processing. "Magnetize and Demagnetize" time is less than 1 second, After magnetization, the magnetic chuck holds the magnetism permanently, and the chuck won't consume any energy at all during the whole machining. It is widely used in CNC machining, milling and die manufacturing.

EPM chuck is applicable to various high precision CNC, CNC milling machine and etc. It is available to machine five sides, workpieces which is larger than working platform also can be held for machining.

EPM chuck is also applicable to clamp various components under heavy or high-speed milling in horizontal and vertical type; it can be for curving, irregular, difficult clamping, batch and particular workpieces. It is applicable to rough and finish machining.

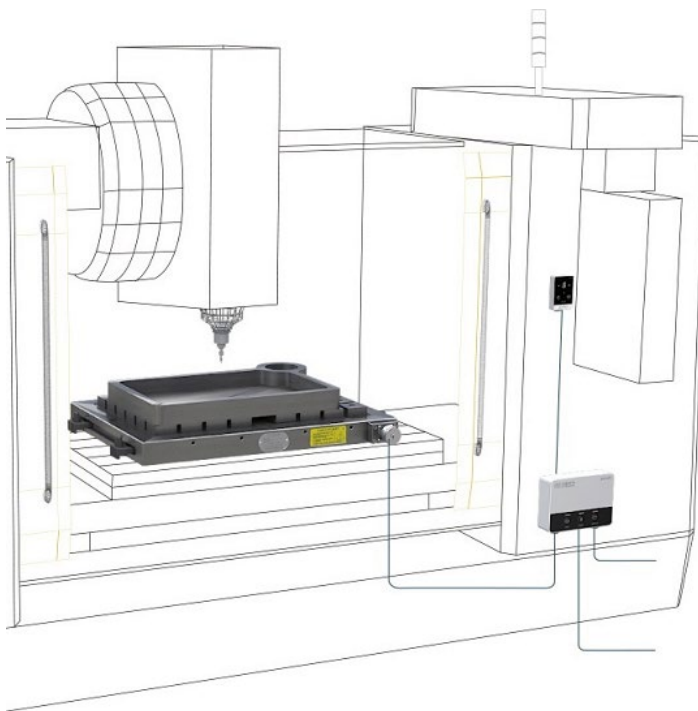
## ADVANTAGES & FEATURES

- Compared to conventional clamping tools. The EPM chuck can save more than 50% clamping operation time, increase working efficiency of labor and machine tool. Without changing machine tool or production line, it can reduce clamping workload greatly. Because of uniform force, workpiece won't be transformed, no shaking in mechanical processing. Extend service life of cutting tools.



- Constant holding force can reach to 160 ~190N/cm<sup>2</sup>, no need electricity when it is in magnetization status, won't lose holding force after power cut, no radiation of magnetic line, no heating phenomenon.
- Distinctive magnetic circuit, reasonable parameters, The chuck body is milled integrally, powerful rigidity, no thermal deformation, high precision. attraction evenly. Strip, block and Deformed pole are available.

- Easy to operate, safe and reliable. Based on customers' requirement, we can make various magnetic chuck products of special performance and dimension.



## APPLICABLE FIELDS

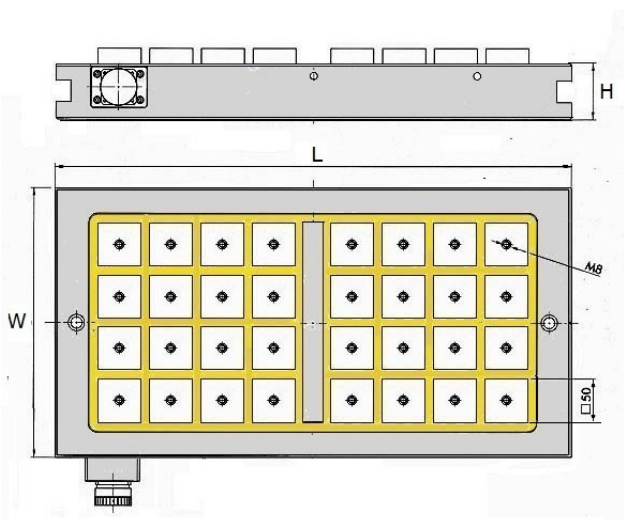
Rectangle type is widely used in mechanical processing, milling, plastic processing, automobile manufacturing, shipbuilding, etc. Round radical type is for the purpose of turning, milling, grinding of round workpieces.

Applicable machine tools: CNC, injection molding machine, molding machine, vertical lathe, surface grinder, milling machine, radial drilling machine, carved machine, and various of machine tools.

Applicable processing mode: End side milling, drilling, round rod end milling, slotting, the combined parts milling, plane machining, hole processing, lumen, boring, three contour machining, mold processing, Angle of the milling and chamfering, horizontal milling, irregular workpiece machining, welding and so on.



## MODELS AND SPECIFICATION





Model.	Surface Dimension (mm)		Weight (kg)	Pole Number	Square Pole Size	Height (mm) H
	W	L				
DYZ50-2443	240	430	58	18	50 x 50 mm  With holding force 3920N	Net 66mm
DYZ50-2459	240	590	79	24		
DYZ50-2481	240	810	101	33		
DYZ50-2499	240	990	120	42		
DYZ50-3031	300	310	48	16		
DYZ50-3043	300	430	73	24		
DYZ50-3059	300	590	102	32		
DYZ50-3081	300	810	126	44		
DYZ50-3087	300	870	166	48		
DYZ50-3099	300	990	150	56		
DYZ50-4243	420	430	114	36		
DYZ50-4259	420	590	142	48		
DYZ50-4281	420	810	176	66		
DYZ50-4287	420	870	185	72		
DYZ50-4299	420	990	210	84		
DYZ50-4859	480	590	144	56		
DYZ50-4881	480	810	202	77		
DYZ50-4887	480	870	212	84		
DYZ50-4899	480	990	240	98		
DYZ50-6060	600	600	180	64		
DYZ50-6081	600	810	252	99		
DYZ50-6087	600	870	274	108		
DYZ50-6099	600	990	300	126		
DYZ50-7581	755	810	286	121		
DYZ70-3040	300	420	64	12	70 x 70 mm  With holding force 7700N	Net 67mm  With padding block 87mm
DYZ70-3060	300	610	93	18		
DYZ70-3080	300	800	122	24		
DYZ70-4040	380	420	81	16		
DYZ70-4060	380	610	118	24		
DYZ70-4080	380	800	155	32		
DYZ70-5060	540	610	168	36		
DYZ70-5080	540	800	220	48		
DYZ70-50100	540	990	272	60		
DYZ70-6060	620	610	193	42		
DYZ70-6080	620	800	253	56		
DYZ70-60100	620	990	313	70		



- 1 Chuck Body    2 Fixing Screw Hole    3 Controller Adaptor    4 Controller  
 5 Remote Panel (Optional)    6 Epoxy Resin Insulation    7 Padding Block  
 8 Groove For Clamping    9 Lifting Ring Fixed Hole  
 10 Cables For Connect Controller, Magnet Body And Power Supply

**Technical Changes**

The data and illustrations in this catalogue are not binding and only provide an approximate description. We reserve the right to make changes to the product delivered compared with the data and illustrations in this catalogue, e.g. in respect of technical data, design, fittings, material and external appearance.

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