Great Magtech (Xiamen) Electric Co., Ltd

Magwork

Since 2015

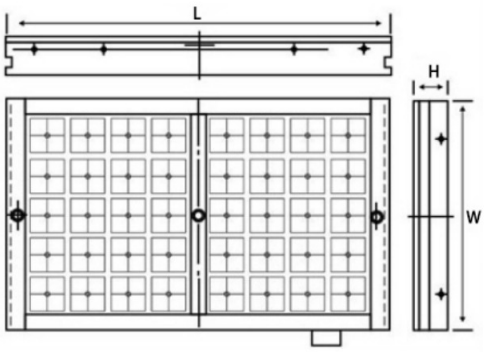
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Electro-Permanent Magnetic Chuck
EP50 Series





Feature:

1. Comprising 75mm*75mm poles with a force of 15-17kgf/cm².

2. It is possible to predetermine the force generated by counting the number of poles, workpiece gripping at least 4 pole contact faces.

3. The controller does the magnetizing or demagnetizing in 0.5~5 seconds.

4. Chuck is tested for slippering force, waterproof test, temperature rise test, and electrical & demagnetizing tests.

Suitable:

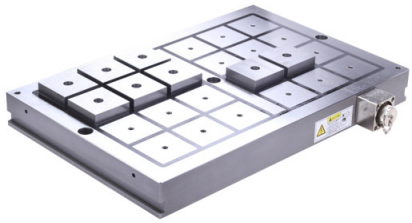
1. Used for normal and heavy-duty drilling, milling, and CNC machining center.

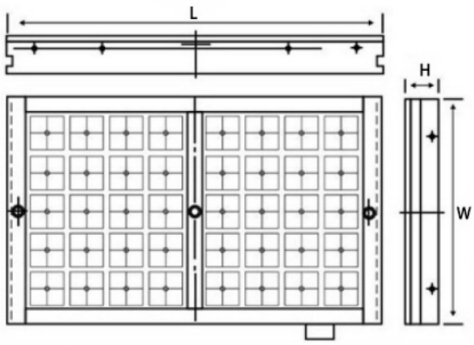
2. Best used for workpieces at least 250*250 mm and 10 mm thick, for small and medium dimensions with normal operating air gaps.

Specification:

Model	Dimension(mm)			Pole Number	Weight(kgs)	
	Length	Width	High		Net	Gross
GME-EP50-205	470	258	58	18	68	72
GME-EP50-206	595	258	58	24	81	89
GME-EP50-208	775	258	58	30	106	116
GME-EP50-209	900	258	58	36	123	133
GME-EP50-210	1025	258	58	42	140	152
GME-EP50-303	327	315	58	16	54	62
GME-EP50-304	436	315	58	24	78	86
GME-EP50-305	496	315	58	28	85	93
GME-EP50-306	595	315	58	32	99	109
GME-EP50-308	775	315	58	40	129	139
GME-EP50-309	900	315	58	48	150	162
GME-EP50-310	1025	315	58	56	171	183
GME-EP50-403	430	320	58	24	73	82
GME-EP50-405	490	430	58	36	112	120
GME-EP50-406	605	436	58	48	140	150
GME-EP50-408	775	436	58	60	179	189
GME-EP50-409	900	436	58	72	208	220
GME-EP50-410	1000	400	68	84	212	225
GME-EP50-503	500	315	58	28	83	92
GME-EP50-505	510	500	58	42	135	142
GME-EP50-506	605	500	58	56	160	170
GME-EP50-508	770	500	68	70	204	214
GME-EP50-509	900	500	68	84	238	250
GME-EP50-510	1010	500	68	98	267	278
GME-EP50-603	600	310	58	32	98	106
GME-EP50-604	600	436	58	48	140	150
GME-EP50-605	600	500	58	56	139	149
GME-EP50-606	615	600	58	72	195	207
GME-EP50-608	625	770	68	90	255	267
GME-EP50-609	890	615	68	108	290	320
GME-EP50-610	1010	615	68	126	329	349

Electro-Permanent Magnetic Chuck
EP75 Series





Feature:

1. Comprising 75mm*75mm poles with a force of 15-17kgf/cm².

2. It is possible to predetermine the force generated by counting the number of poles, workpiece gripping at least 4 pole contact faces.

3. The controller does the Magnetizing or demagnetizing in 0.5~5 seconds.

4. Chuck is tested for Slippering force, Waterproof test, Temperature rise test, Electrical & Demagnetizing tests.

Suitable:

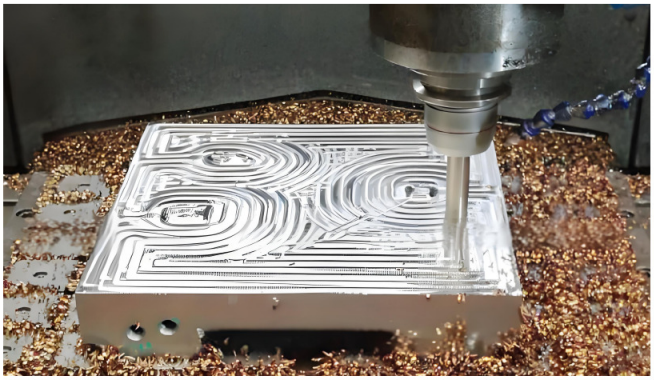
1. Used for normal and heavy-duty drilling, milling, and CNC machining center.

2. Best used for workpieces at least 400*400 mm and 18 mm thick, Ideal for general pieces of various dimensions with normal operating air gaps and medium thicknesses.

Specification:

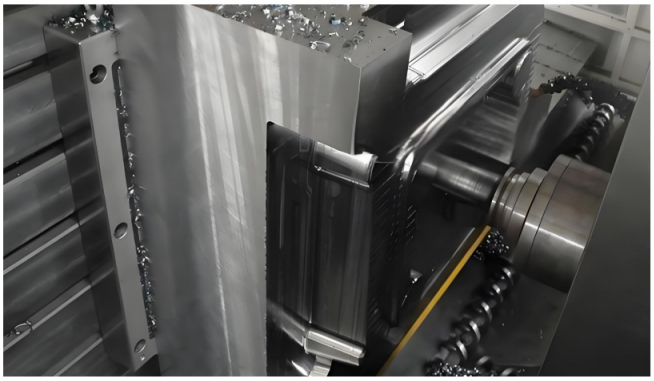
Model	Dimension(mm)			Pole Number	Weight(kgs)	
	Length	Width	High		Net	Gross
GME-EP75-206	620	230	58	12	75	83
GME-EP75-208	770	230	58	16	93	102
GME-EP75-210	1030	230	58	20	126	136
GME-EP75-304	410	320	58	12	69	77
GME-EP75-305	510	340	58	15	80	86
GME-EP75-306	620	300	58	18	98	108
GME-EP75-308	770	300	58	24	123	133
GME-EP75-310	1030	300	58	30	164	176
GME-EP75-404	420	420	58	16	93	101
GME-EP75-405	510	420	58	20	113	121
GME-EP75-406	630	420	58	24	140	148
GME-EP75-408	810	420	58	32	180	188
GME-EP75-410	1030	420	68	40	229	239
GME-EP75-502	510	230	58	10	62	69
GME-EP75-504	510	420	58	20	113	121
GME-EP75-506	630	500	58	30	167	175
GME-EP75-508	810	500	68	40	215	223
GME-EP75-509	950	510	68	45	256	272
GME-EP75-510	1000	500	68	50	265	275
GME-EP75-602	610	230	58	12	74	84
GME-EP75-604	630	420	58	24	140	148
GME-EP75-606	600	600	58	36	190	200
GME-EP75-608	800	600	68	48	255	262
GME-EP75-610	1020	600	68	60	324	336

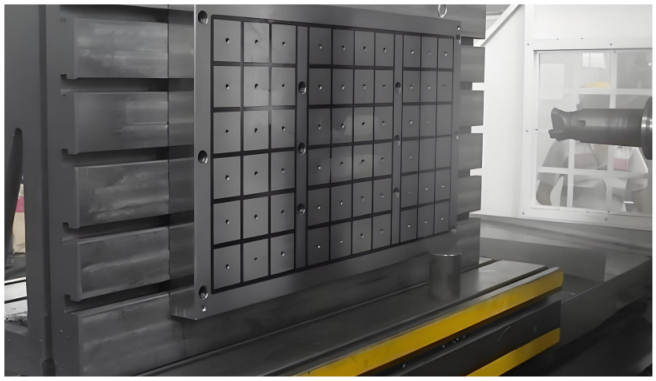
Application



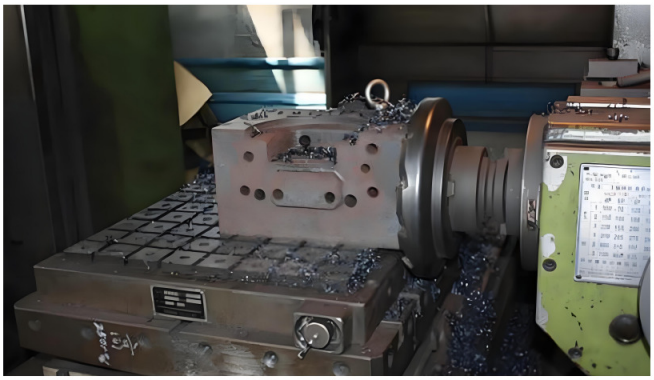


Vertical Machining Center



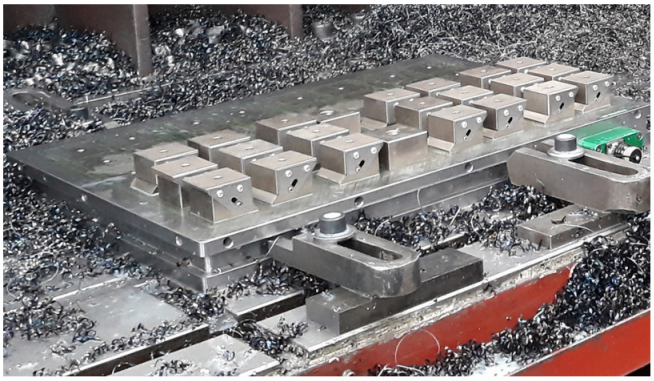


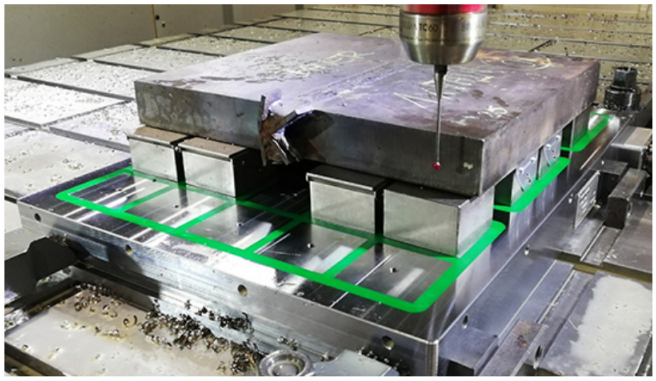
Horizontal Machining Center



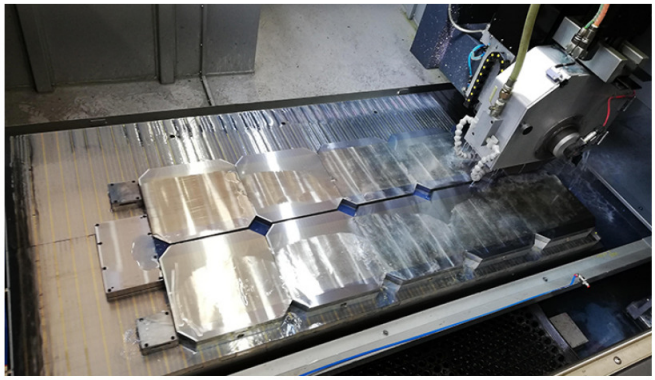


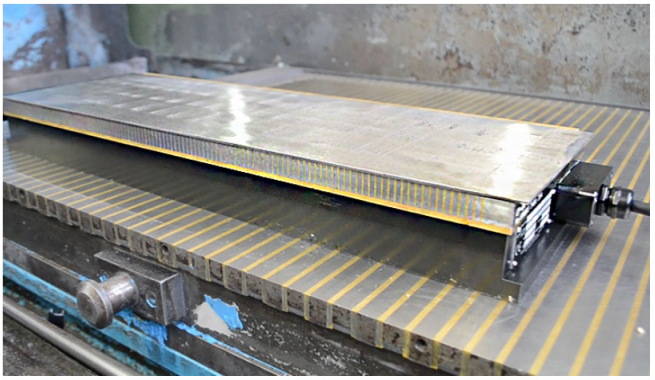
Milling Machine



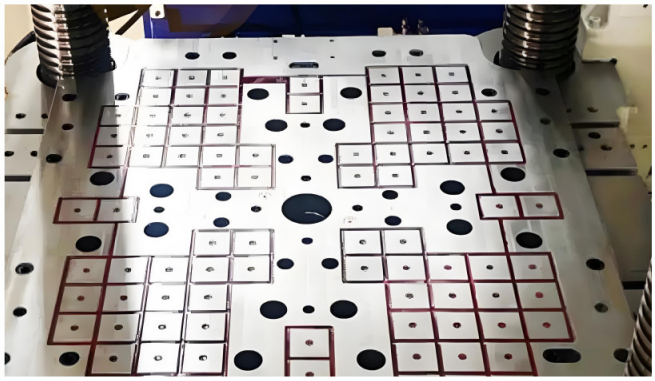


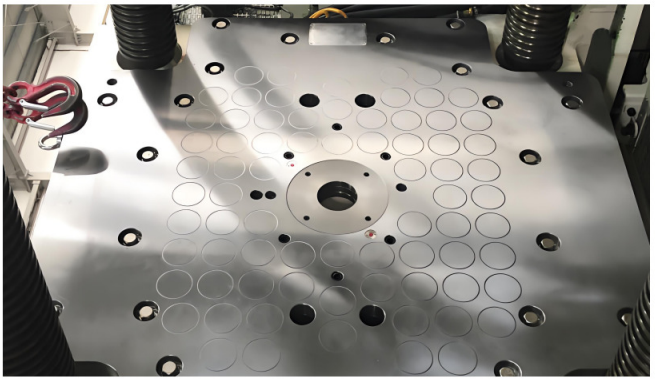
Drilling Machine



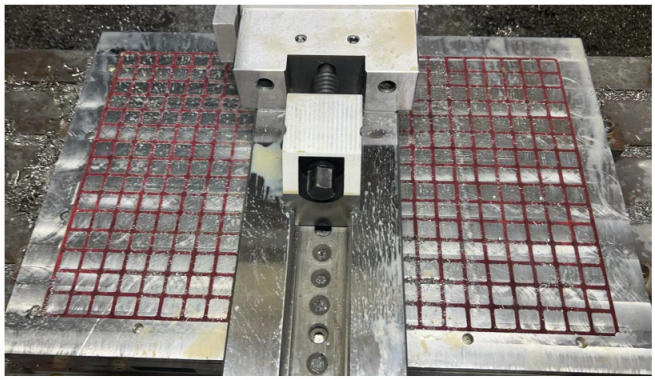


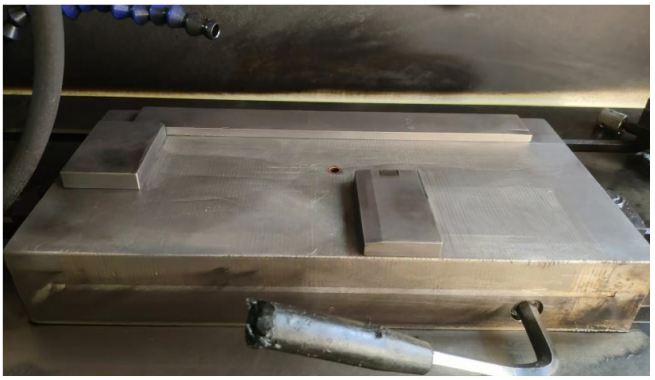
EDM



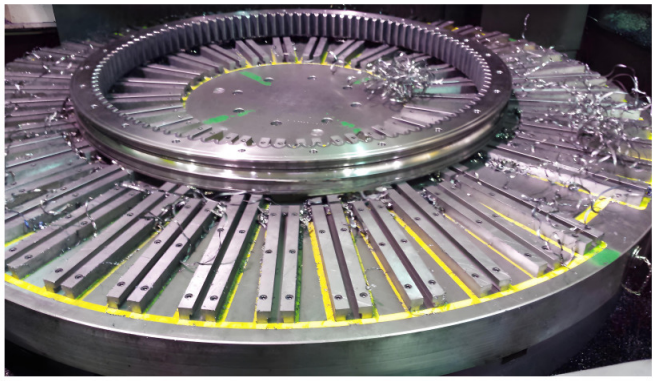


Injection Molding Machine





Grinding Machine

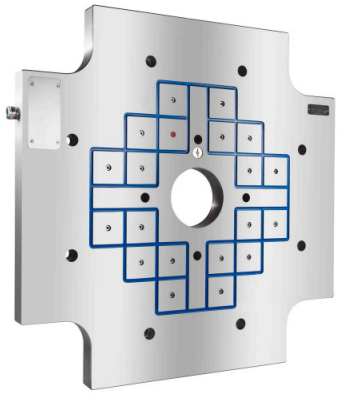




Vertical Lathe Machine

Electro-Permanent Magnetic Chuck for Plastic Injection Machine

Feature:



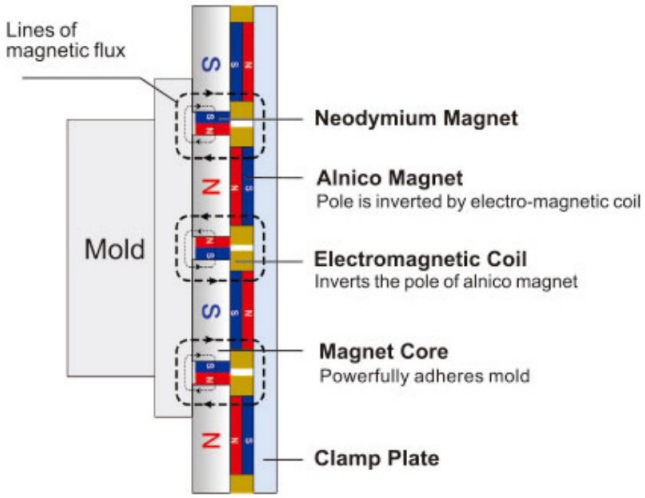
1. Electro-permanent magnetic chuck quick mold change system provides a much greater improvement in mold change efficiency. It performs less than 3 minutes for mold changing of general injection molding machine. For large-size machines, it will shorten the mold changing time from 2 hours down to 10 minutes.

2. The system requires just a single operator for mold-changing job. Without any tool, the operator can easily handle this system beyond the safety distance of the machine.

3. Standard working temperature: 120℃(150/200/optional).

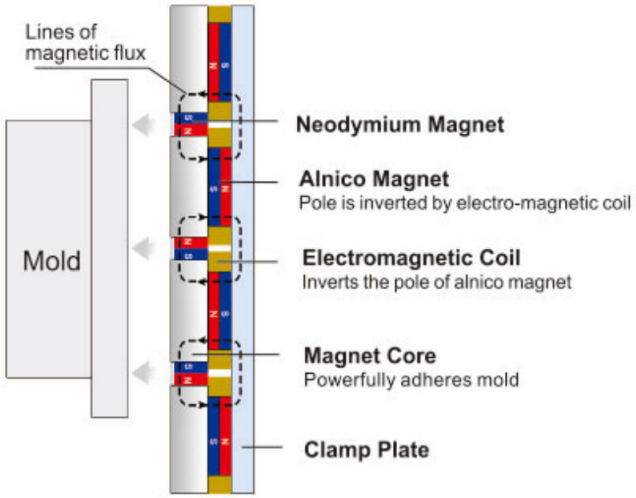
4. According to the brand and application requirements of the injection molding machine used by the customer, design the corresponding adjustment.

Working Principle:



Magnetization:

During the Mag phase, the magnetic flux is short-circuited outside the magnetic surface, safely clamping the mold with a very limited magnetic depth, so as not to affect any internal part of the engaged mold.

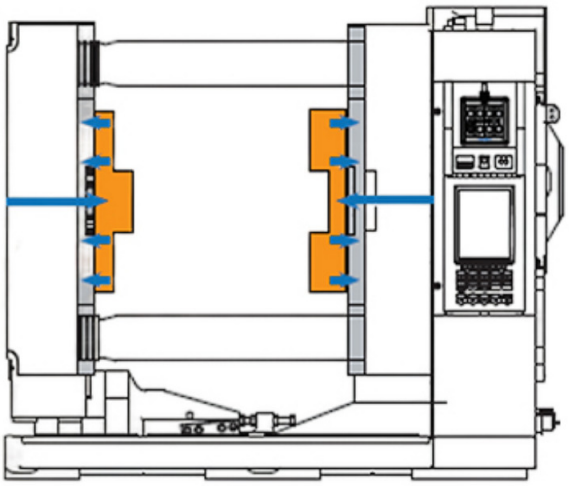


Demagnetization:

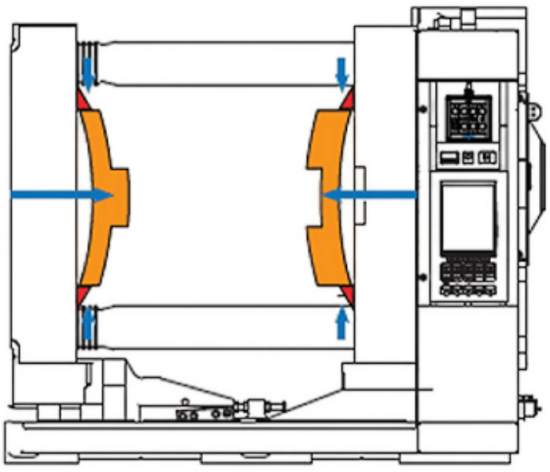
During the Demag phase, the magnetic flux is short inside the magnetic module frame, perfectly releasing the mold for its changeover.

Clamping Force Uniformity:

Traditional clamping focuses the clamping forces around the peripheral edges of the mold. Magnetic clamping generates clamping force over the entire surface of the mold. Once the mold is magnetized it is nearly a part of the machine platen. This increased rigidity equates to higher parts, increased repeatability, and less maintenance of the mold.

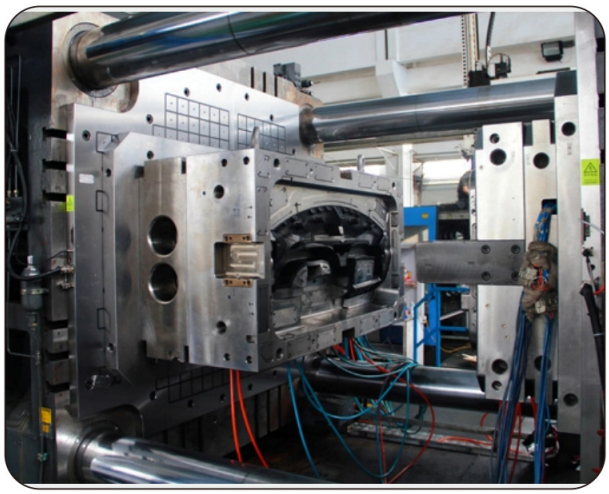


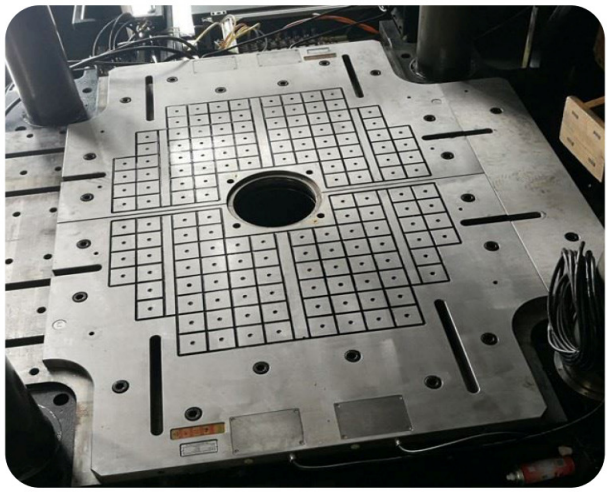
GME-EMQS

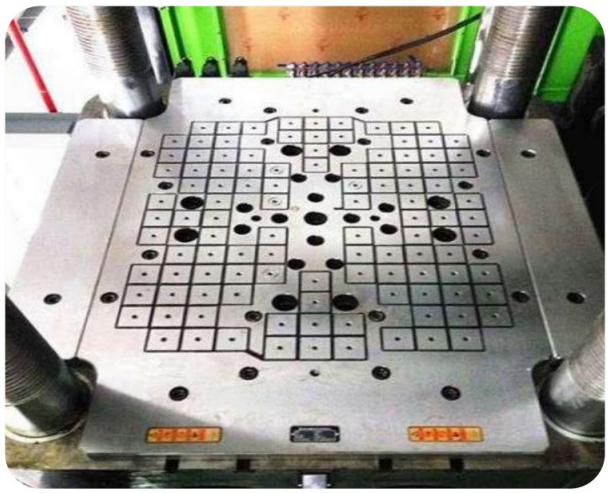


Traditional Clamping

Application:







Circular Electro-Permanent Magnetic Chuck with Radial Poles

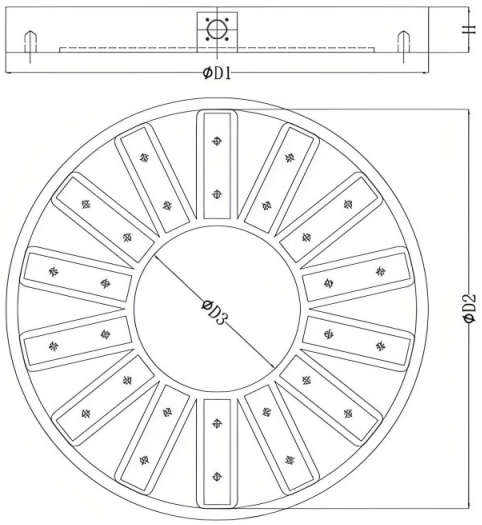


Feature:

1. Highest clamping force up to 16kgf/ cm².
2. Electro-permanent technology with no deformation.
3. Owing to the rise of the temperature.
4. Can eliminate the residual magnetism from the workpiece.
5. T-slot can be used with pole extension for the grinding wheel at three-side operation.
6. Minimum mechanical deformation with solid one-piece housing.

Suitable:

Clamping for grinding of ring shaped workpieces.



Specification:

Model	Dimensions(mm)					Number of Poles
	D1	D2	D3	H	Weight (Kgs)	
GME-DYZ-F 600R	635	600	250	80	168	14
GME-DYZ-F 800R	835	800	250	80	320	14
GME-DYZ-F 1000R	1035	1000	250	80	520	28/14
GME-DYZ-F 1200R	1285	1250	250	80	832	28/14
GME-DYZ-F 1300R	1335	1300	350	80	864	36/18