

TURBO MAX-MILL

EPM

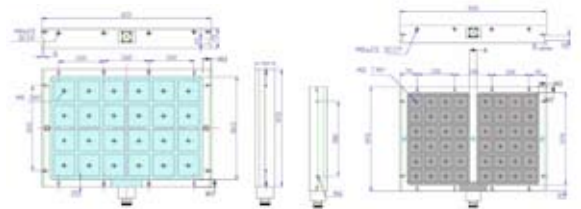
SQUARE POLE ELECTROPERMANENT CHUCK

FEATURES

- Square pole pattern Electropermanent magnets available in standard pole construction of 50mm & 75mm squares. Alternative patterns of 47mm, 65mm, 100mm squares also can be constructed to cater to specific requirements.
- Holding force above 80 MT/SqM for the 50mm square pole version and 110 MT/SqM for the 75mm Square pole version
- Perfect safety in case of power failure. No electricity needed to keep the Magnetic chuck ON.
- Uniform clamping over entire area, no chattering of tools, improves finish and tool life.
- High and uniform magnetic power, with choice to vary and control strength.
- Modular and sturdy construction.
- Easily integrated with pallet changing and FMS systems.
- Unobstructed movement of cutters during machining as all five faces of the job can be machined in the same setting.
- Drastically reduces the loading, unloading and controlling the work pieces.
- Better machining accuracy - as the chattering of tools reduces, the finish and tool life is improved..

APPLICATIONS

- For heavy duty roughing, milling and finishing applications on large and tall parts from 30mm to 600mm thickness and beyond, choose the 75mm type. For milling and finishing applications on parts from 7mm to 100mm, choose the 50mm type.
- A minimum contact of 4 alternate poles is required for the 75mm type and 8 for the 50mm type. In case of reduced contact, increase coverage by placing parallel bar side supports to simulate wider contact.
- Easily integrated with Pallet changing and FMS Systems.
- AUTOMATIC SHIMMING : Sliding pole extensions allow to clamp and to support uniformly work pieces even with bent surfaces achieving high accuracies of planarity.



T-slot and solid top variation



Array of static and mobile extension blocks



Solid top variation



Typical application scenarios



All dimensions are in mm.

MODEL NO :	'X' = 50MM SQUARE								
	L	W	H	N	W1	W2	V	A	WT
EPMM'X'3020	310	240	67	12	25	30	220 380 400 415 440		33
EPMM'X'4020	430			18					46
EPMM'X'5020	500			21					58
EPMM'X'6020	590			24					71
EPMM'X'8020	750			30					85
EPMM'X'3030	310			300					16
EPMM'X'4030	430	24						59	
EPMM'X'6030	590	32						91	
EPMM'X'8030	750	40						108	
EPMM'X'10030	990	56						142	
EPMM'X'4040	430	420						36	84
EPMM'X'5040	480			42				92	
EPMM'X'6040	590			48				129	
EPMM'X'8040	750			60				154	
EPMM'X'10040	990			80				202	
EPMM'X'12040									
EPMM'X'5050	500	480		49				130	
EPMM'X'6050	590			56				162	
EPMM'X'8050	750			70				193	
EPMM'X'10050	990			98				253	
EPMM'X'15050									
EPMM'X'20050									
EPMM'X'6060	590	600		72				200	
EPMM'X'8060	750			90				239	
EPMM'X'10060	990		126	313					
EPMM'X'15060									
EPMM'X'20060									

MODEL NO :	'X' = 75MM SQUARE								
	L	W	H	N	W1	W2	V	A	WT
EPMM'X'3020	337	239	67	6	25	30	220 380 400 415 440		44
EPMM'X'4020	425			8					56
EPMM'X'5020	513			10					68
EPMM'X'6020	601			12					80
EPMM'X'8020	815			16					124
EPMM'X'3030	337			327					9
EPMM'X'4030	425	12						77	
EPMM'X'6030	601	18						111	
EPMM'X'8030	815	24						145	
EPMM'X'10030	1029	30						178	
EPMM'X'4040	425	415						16	99
EPMM'X'5040	513			20				120	
EPMM'X'6040	601			24				145	
EPMM'X'8040	815			32				182	
EPMM'X'10040	1029			40				228	
EPMM'X'12040	1205			48				266	
EPMM'X'5050	513	503		25				149	
EPMM'X'6050	601			30				160	
EPMM'X'8050	815			40				226	
EPMM'X'10050	1029			50				278	
EPMM'X'15050	1469			75				439	
EPMM'X'20050	1960			100				585	
EPMM'X'6060	601	591		36				204	
EPMM'X'8060	815			48				266	
EPMM'X'10060	1029		60	328					
EPMM'X'15060	1469		90	518					
EPMM'X'20060	1960		120	691					

N : Number of poles W1 & W2 : Wall thicknesses V : Voltages available A : Amperes

