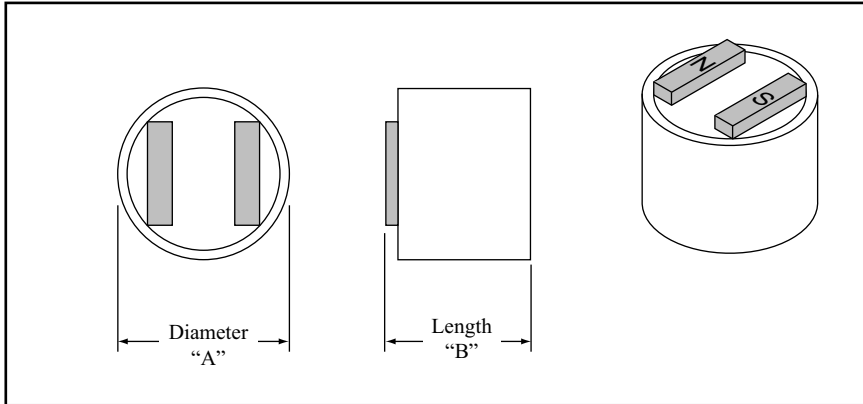


# INSULATED CERAMIC HOLDING MAGNETS



## APPLICATION:

Cylindrical Insulated Magnet Assemblies provide an economical solution to many material handling applications involving ferrous products, through the elimination of costly clamps and fixtures. These magnets can improve productivity in applications that include: parts feeding, automatic part transfers, welding, and holding parts in metal forming operations. All MPI's Cylindrical Insulated Magnet Assemblies are supplied standard with precision-ground flat, extended mild steel poles, which can be machined to custom fit irregular shapes. These magnets are not affected by vibration or temperatures up to 180° F and are fully insulated for direct mounting to steel surfaces.

## CONSTRUCTION:

Powerful Ceramic Permanent Magnet material produces a high concentration of magnet energy in the mild steel poles contact surfaces. A non-ferrous aluminum cup, potted with high-impact epoxy, provides both physical durability and insulation against de-magnetization; actual loss of 1/4 of 1% over 100 years can be expected, under normal conditions.

## CAUTION:

Care must be used not to drill, tap or change the magnet assemblies without risk of reducing the holding values as shown in the following charts.

## SELECTION:

The Three, Four, and Five pole Cylindrical Insulated Magnet Assemblies are a continuation of the Two pole design with the additional benefits of increased holding values and a wider range of sizes and tapped or countersunk thru holes for mounting. Like the two pole design, these multi-pole assemblies can be mounted directly to steel surfaces, however, they are not suitable for welding applications. Holding values shown in the charts are the results of testing under ideal conditions indicating vertical pull-off of smooth, clean surfaces and will decrease with the use of heavily oiled, rusty, painted, or thin material thickness. Use a proportionate safety factor when selecting holding values for your application. A wide range of sizes and holding values are available from stock for immediate delivery in standard Two thru Five poles designs. Special designs are common with this product line and MPI's engineering and testing facilities are available, without obligation, to satisfy your magnet requirements.

CATALOG PART NUMBER	DIMENSIONS		HOLDING VALUE LBS.
	DIA. "A"	LENGTH "B"	
2P-3750	.375	.500	1.00
2P-3762		.625	1.50
2P-3775		.750	1.75
2P-3787		.875	2.00
2P-3710		1.000	2.25
2P-5050	.500	.500	2.25
2P-5062		.625	2.50
2P-5075		.750	3.00
2P-5087		.875	3.50
2P-5010		1.000	3.75
2P-6250	.625	.500	3.50
2P-6262		.625	3.75
2P-6275		.750	4.00
2P-6287		.875	4.50
2P-6210		1.000	5.00
2P-7550	.750	.500	5.00
2P-7562		.625	7.00
2P-7575		.750	8.00
2P-7587		.875	8.50
2P-7510		1.000	9.50
2P-7511		1.125	10.00
2P-7512		1.250	10.50
2P-8750	.875	.500	5.25
2P-8762		.625	7.50
2P-8775		.750	9.00
2P-8787		.875	10.00
2P-8710		1.000	11.00
2P-87111		1.125	12.00
2P-8712		1.250	14.00
2P-8715		1.500	15.00
2P-1050	1.000	.500	7.00
2P-1062		.625	8.00
2P-1075		.750	9.00
2P-1087		.875	10.00
2P-1010		1.000	12.00
2P-1011		1.125	14.00
2P-1012		1.250	16.00
2P-1015		1.500	17.00
2P-1150	1.125	.500	9.00
2P-1162		.625	10.00
2P-1175		.750	11.00
2P-1187		.875	12.00
2P-1110		1.000	14.00
2P-1111		1.125	17.00
2P-1112		1.250	18.00
2P-1115	1.500	20.00	
2P-1250	1.250	.500	8.00
2P-1262		.625	11.00
2P-1275		.750	13.00
2P-1287		.875	18.00
2P-1210		1.000	20.00
2P-1211		1.125	23.00
2P1212		1.250	24.00
2P-1215		1.500	26.00

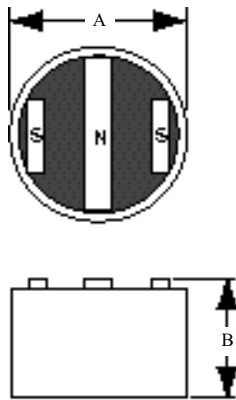


**Magnetic Products, Inc.**

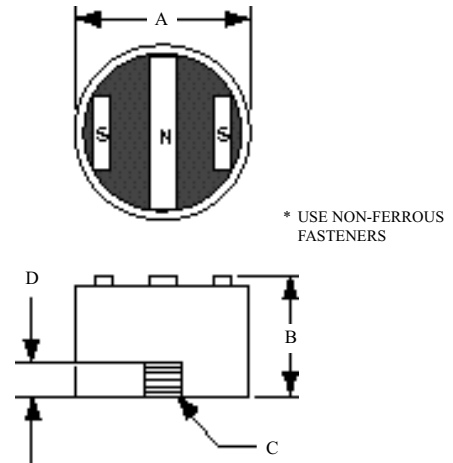
*Providing Magnetic Solutions  
for the Material Handling Industry*

# INSULATED CERAMIC HOLDING MAGNETS

## Cylindrical (Multi-Pole)

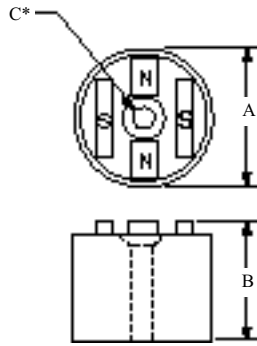


3PH-Series THREE POLE			
CATALOG PART NUM- BER	DIMENSIONS		HOLDING VALUE LBS.
	DIA. A	LENGTH B	
3P-6250	.625	.500	4.0
3P-6262		.625	5.0
3P-6275		.750	6.0
3P-6287		.875	6.5
3P-6210		1.000	7.0
3P-7550	.750	.500	9.0
3P-7562		.625	10.5
3P-7575		.750	12.5
3P-7587		.875	13.5
3P-7510		1.000	15.5
3P-7511		1.125	16.0
3P-7512		1.250	17.0
3P-8750	.875	.500	9.5
3P-8762		.625	15.0
3P-8775		.750	20.0
3P-8787		.875	25.0
3P-8710		1.000	27.0
3P-8711		1.125	29.0
3P-8712		1.250	31.0
3P-8715		1.500	32.5
3P-1050	1.000	.500	10.5
3P-1062		.625	17.0
3P-1075		.750	25.0
3P-1087		.875	28.5
3P-1010		1.000	30.0
3P-1011		1.125	31.0
3P-1012		1.250	32.0
3P-1015		1.500	33.0
3P-1250	1.125	.500	14.5
3P-1262		.625	21.0
3P-1275		.750	29.0
3P-1287		.875	36.5
3P-1210		1.000	40.0
3P-1211		1.125	46.5
3P-1212		1.250	53.5
3P-1215		1.500	60.0
3P-1550	1.500	.500	19.0
3P-1562		.625	25.0
3P-1575		.750	45.0
3P-1587		.875	55.0
3P-1510		1.000	65.0
3P-1511		1.125	70.0
3P-1512		1.250	80.0



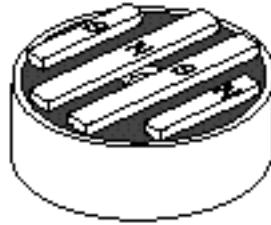
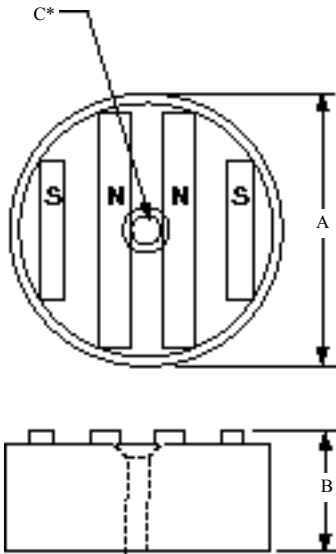
\* USE NON-FERROUS FASTENERS

3PT-Series THREE POLE with BOTTOM TAPPED HOLE					
CATALOG PART NUM- BER	DIMENSIONS		TAP*		HOLDING VALUE LBS.
	DIA. A	LENGTH B	DIA. A	DEPTH D	
3PT-6250	.625	.500	10-32	.187	4.0
3PT-6262		.625			5.0
3PT-6275		.750			6.0
3PT-6287		.875			6.5
3PT-6210		1.000			7.0
3PT-7550	.750	.500	10-32	.187	9.0
3PT-7562		.625			10.5
3PT-7575		.750			12.5
3PT-7587		.875			13.5
3PT-7510		1.000			15.5
3PT-7511		1.125			16.0
3PT-7512		1.250			17.0
3PT-8750	.875	.500	.250-20	.250	9.5
3PT-8762		.625			15.0
3PT-8775		.750			20.0
3PT-8787		.875			25.0
3PT-8710		1.000			27.0
3PT-8711		1.125			29.0
3PT-8712		1.250			31.0
3PT-8715		1.500			32.5
3PT-1050	1.000	.500	.250-20	.250	10.5
3PT-1062		.625			17.0
3PT-1075		.750			25.0
3PT-1087		.875			28.5
3PT-1010		1.000			30.0
3PT-1011		1.125			31.0
3PT-1012		1.250			32.0
3PT-1015		1.500			33.0
3PT-1250	1.125	.500	.250-20	.250	14.5
3PT-1262		.625			21.0
3PT-1275		.750			29.0
3PT-1287		.875			36.5
3PT-1210		1.000			40.0
3PT-1211		1.125			46.5
3PT-1212		1.250			53.5
3PT-1215		1.500			60.0
3PT-1550	1.500	.500	.250-20	.250	19.0
3PT-1562		.625			25.0
3PT-1575		.750			45.0
3PT-1587		.875			55.0
3PT-1510		1.000			65.0
3PT-1511		1.125			70.0
3PT-1512		1.250			80.0



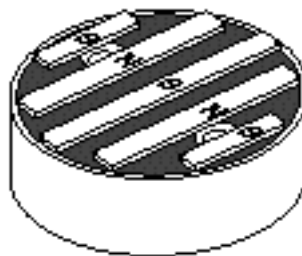
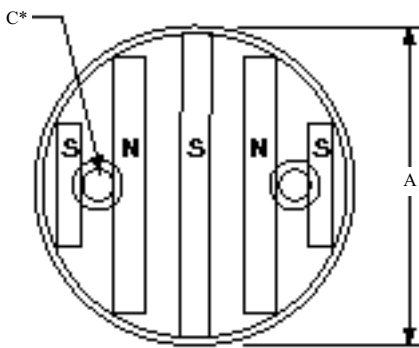
\* USE NON-FERROUS FASTENERS

3PH-Series  
THREE POLE with THRU HOLE



\* USE NON-FERROUS FASTENERS

4PH-Series  
FOUR POLE with THRU HOLE



\* USE NON-FERROUS FASTENERS

5PH-Series  
FIVE POLE with THRU HOLES

### 3PH-Series

CATALOG PART NUMBER	DIMENSIONS		82P C SINK*	HOLDING VALUE LBS.
	DIA.	LENGTH		
	A	B	C	
3PH-7550	.750	.500	#8 FLAT HEAD MACHINE SCREW	8.5
3PH-7562		.625		10.0
3PH-7575		.750		11.5
3PH-7587		.875		12.0
3PH-7510		1.000		13.0
3PH-7511		1.125		14.5
3PH-7512		1.250		16.0
3PH-8750	.875	.500	#8 FLAT HEAD MACHINE SCREW	9.0
3PH-8762		.625		12.5
3PH-8775		.750		19.0
3PH-8787		.875		23.0
3PH-8710		1.000		24.5
3PH-8711		1.125		26.5
3PH-8712		1.250		28.5
3PH-8715	1.500	30.0		
3PH-1050	1.000	.500	#8 FLAT HEAD MACHINE SCREW	10.5
3PH-1062		.625		13.0
3PH-1075		.750		20.0
3PH-1087		.875		24.0
3PH-1010		1.000		26.0
3PH-1011		1.125		28.5
3PH-1012		1.250		30.0
3PH-1015	1.500	31.5		
3PH-1250	1.125	.500	#8 FLAT HEAD MACHINE SCREW	14.5
3PH-1262		.625		20.0
3PH-1275		.750		28.0
3PH-1287		.875		35.0
3PH-1210		1.000		38.0
3PH-1211		1.125		40.0
3PH-1212		1.250		42.0
3PH-1215	1.500	48.0		
3PH-1550	1.125	.500	1/4 FLAT HEAD MACHINE SCREW	17.5
3PH-1562		.625		23.0
3PH-1575		.750		44.0
3PH-1587		.875		53.0
3PH-1510		1.000		63.0
3PH-1511		1.125		68.0
3PH-1512		1.250		76.0

### 4PH-Series

CATALOG PART NUMBER	DIMENSIONS		82P C SINK*	HOLDING VALUE LBS.
	DIA.	LENGTH		
	A	B	C	
4PH-2050	2.000	.500	1/4 FLAT HD	24.0
4PH-2075		.750	MACHINE SCREW	75.0
4PH-2010		1.000		130.0
4PH-2550	2.500	.500	1/4 FLAT HD	30.0
4PH-2562		.750	MACHINE SCREW	106.0
4PH-2510		1.000		160.0

### 5PH-Series

CATALOG PART NUMBER	DIMENSIONS		82P C SINK*	HOLDING VALUE LBS.
	DIA.	LENGTH		
	A	B	C	
5PH-3050	3.000	.500	1/4 FLAT HD	52.0
5PH-3075		.750	MACHINE SCREW	155.0
5PH-3010		1.000		240.0