

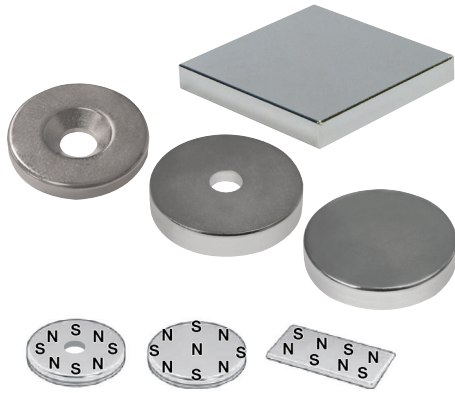
SMARTMAG® MULTI-POLE ENCODED MAGNETS **MAG-MATE®**

Max-Attach® - SmartMag® Encoded Magnet Material



Max-Attach® SmartMag® magnets are Rare Earth Neodymium-Iron-Boron multi-pole encoded magnets that contain small magnetic poles encoded into a single face of raw magnet material to produce superior attachment force that cannot be achieved with conventionally magnetized magnet material. Maximum temperature is 180°F (82°C). They cannot be machined.

Some models available with 3M VHB (Very High Bond) adhesive backing for placement on non-ferrous surfaces.



SmartMag® Max-Attach® Disc						
O.D. (in)	Height (in)	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back	
0.500	0.062	0.004	4.9 (2.22)	CMP5006P2N52	CMP5006P2ADH	
0.500	0.125	0.007	7.7 (1.04)	CMP5012P1N35	-	
0.500	0.187	0.037	9.3 (4.22)	CMP5018P2N35	-	
0.500	0.125	0.007	8.8 (3.99)	CMP5012P1N42	-	
0.500	0.187	0.037	10.5 (4.76)	CMP5018P2N42	-	
0.750	0.062	0.007	15.3 (6.94)	CMP7506P1N42	CMP7506P1ADH	
0.750	0.125	0.015	18.0 (8.16)	CMP7512P1N42	CMP7512P2ADH	
1.000	0.062	0.013	16.5 (7.48)	CMP10006P1N42	CMP10006P1ADH	
1.000	0.125	0.027	37.3 (16.92)	CMP10012P1N42	CMP10012P1ADH	
1.000	0.187	0.040	38.4 (17.42)	CMP10018P2N42	CMP10018P2ADH	
1.500	0.125	0.060	77.0 (34.93)	CMP15012P1N42	CMP15012P1ADH	

Max-Attach® Ring						
O.D. (in)	I.D. (in)	Height (in)	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
0.750	0.125	0.125	0.014	16.3 (7.39)	CMP751212P2N42	-
0.750	#6CS (0.186)	0.125	0.011	11.0 (4.99)	CMP7512CSP2N42	-
1.000	#6CS (0.186)	0.125	0.800	30.0 (13.60)	CMP10012CSP2N42	-
1.000	0.190	0.125	0.026	33.2 (15.06)	CMP101912P2N42	CMP101912P2ADH
1.500	0.125	0.125	0.059	67.3 (30.53)	CMP151212P2N42	CMP151212P2ADH
2.000	0.875	0.187	0.128	119.0 (53.98)	CMP208718P2N42	-

Max-Attach® Rectangle						
Length (in)	Width (in)	Height (in)	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
0.500	0.500	0.125	0.008	13.1 (5.94)	CMP010505P1N42	CMP010505P1ADH
1.000	0.500	0.125	0.017	17.1 (7.76)	CMP010510P1N42	CMP010510P1ADH
1.000	1.000	0.060	0.018	26.0 (11.79)	-	CMP061010P2ADH
1.000	1.000	0.125	0.034	39.8 (18.05)	CMP011010P1N42	CMP011010P1ADH
1.500	1.000	0.187	0.076	62.1 (28.17)	CMP181510P2N35	-
1.500	1.000	0.187	0.076	64.8 (29.39)	CMP181510P2N42	CMP181510P2ADH
1.500	1.500	0.125	0.076	86.4 (39.19)	CMP011515P1N42	CMP011515P1ADH

SmartMag® Alignment Encoded Magnet Material



SmartMag® alignment magnets are multi-pole encoded magnets that contain small magnetic poles encoded into a single face of raw magnet material to create alignment patterns that can produce complex precision alignment that has not been achieved with conventionally magnetized magnet material. Maximum temperature is 180°F (82°C). They cannot be machined. Some models available with 3M VHB (Very High Bond) adhesive backing for placement on non-ferrous surfaces.

Twist-Latch:

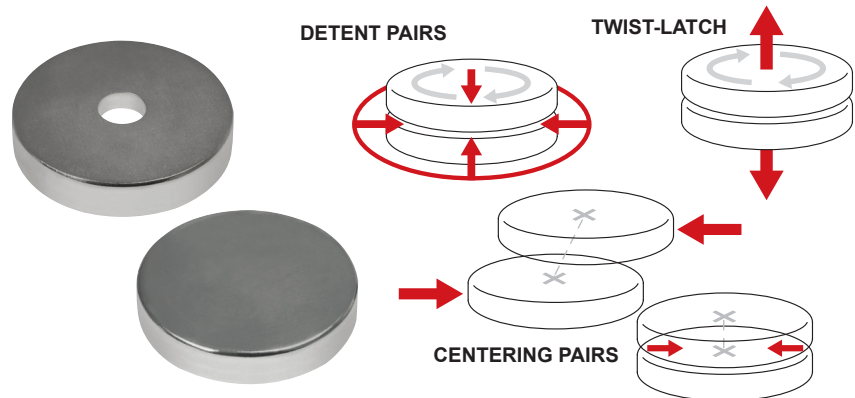
Twist-Latch SmartMags® will repel until they rotate through the zero-force transition point where they will attract and attach. They have an alignment pattern that will repel or release the magnets when one magnet is rotated into a specific release orientation.

Detent:

Detent SmartMags® will align at specific angles when rotated and hold its position until enough force is applied to rotate one magnet into the next position.

Centering:

Centering SmartMags® are a distinct type of Alignment SmartMag® that are produced in matching pairs and will align along a set axis.



Twist-Latch – SmartMag® Disc or Ring Pairs							
O.D. (in)	I.D. (in)	Height (in)	Release Angle	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
1.000	-	0.125	120°	0.027	15.0 (6.80)	CMP2M1012L12	CMP1012L12ADH
1.000	-	0.125	180°	0.027	19.0 (8.62)	CMP2M1012L18	CMP1012L18ADH
1.000	0.190	0.125	120°	0.026	12.0 (5.44)	CMP2M10CS12L12	-
1.000	0.190	0.125	180°	0.026	14.0 (6.35)	CMP2M10CS12L18	-

Detent – SmartMag® Disc or Ring Pairs							
O.D. (in)	I.D. (in)	Height (in)	Detent Angle	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
1.000	-	0.125	90°	0.027	16.0 (7.26)	CMP2M1012D09	CMP1012D09ADH
1.000	-	0.125	120°	0.027	20.0 (9.07)	CMP2M1012D12	CMP1012D12ADH
1.000	0.190	0.125	90°	0.026	12.0 (5.44)	CMP2M1012CSD09	-
1.000	0.190	0.125	120°	0.026	16.0 (7.26)	CMP2M1012CSD12	-

Centering – SmartMag® Disc or Ring Pairs							
O.D. (in)	I.D. (in)	Height (in)	Release Angle	Weight (lbs)	Hold - lbs (kg)	Model No.	Model No. with Adhesive Back
1.000	-	0.125	180°	0.027	32.0 (14.52)	CMP2M1012C3	CMP2M1012C3ADH
1.000	0.190	0.125	180°	0.026	22.0 (9.98)	CMP2M10CS12C3	-