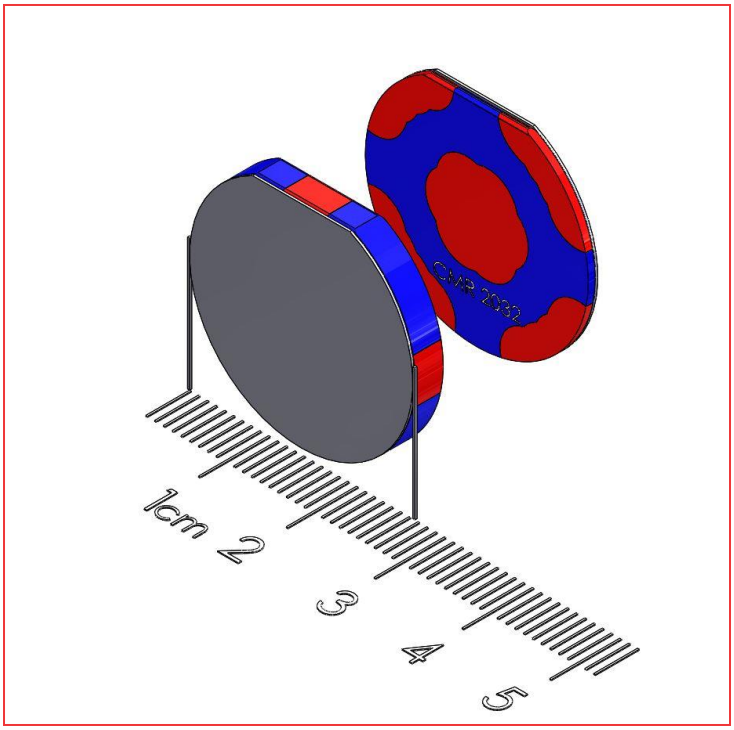
1002278
Mobile Device Polymagnet Pair –Portrait/Landscape

Portrait/Landscape Polymagnets are engineered to provide strong attachment and alignment forces in portrait/landscape positions and smoothly transition between the two arrangements with no repulsive force. This pair of magnets maintain their own axial alignment. These Polymagnets also exhibit a tightly controlled magnetic field which minimizes interference with sensitive devices.



Features and Benefits

- Mobile phone case and stand design
- Compass friendly
- Rotational alignment
- 1002032 with shunt– D shape 1” OD 0.041” Thick
- 1002033 with shunt – D shape 1” OD 0.135” thick

Technical Specifications:

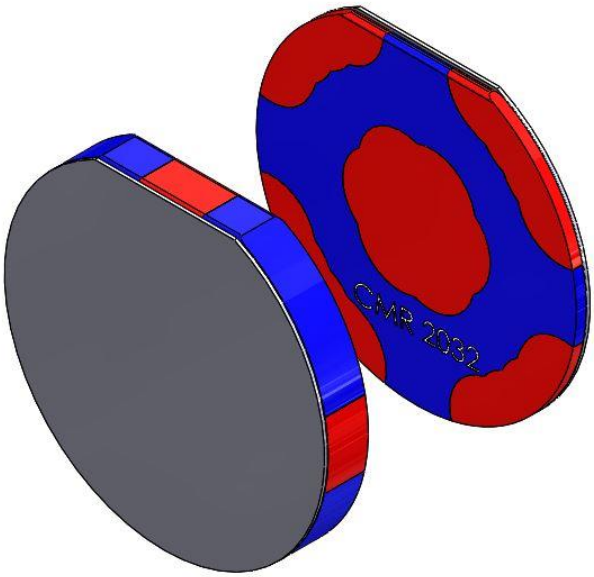
Shape Type:	D-Shape	
Diameter:	1.0”	
Weight:	0.06 oz	(3.7 g)
Material:	NdFeB	
Magnet Grade:	N50	
Coating:	Ni-Cu-Ni	
Temperature Rating:	140° F	(60 C)
Holding Force:	12.4 lbs	(55 N)

Polymagnet® CORRELATED MAGNETICS

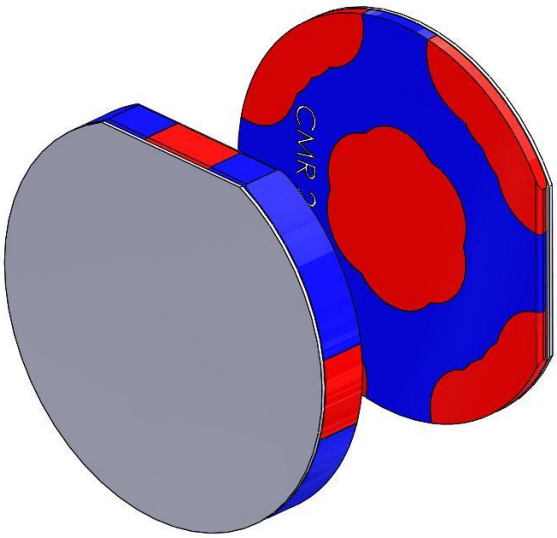
These Polymagnets exhibit holding force throughout their entire 360º rotation. The force peaks at 0/90/180/270 º positions. This magnet pair is designed to hold a phone and easily rotate between portrait and landscape positions.

*In the images below, north poles are indicated by the red regions, south poles are indicated by the blue regions, and steel is indicated by the grey region.

ALIGNED



90° ROTATION



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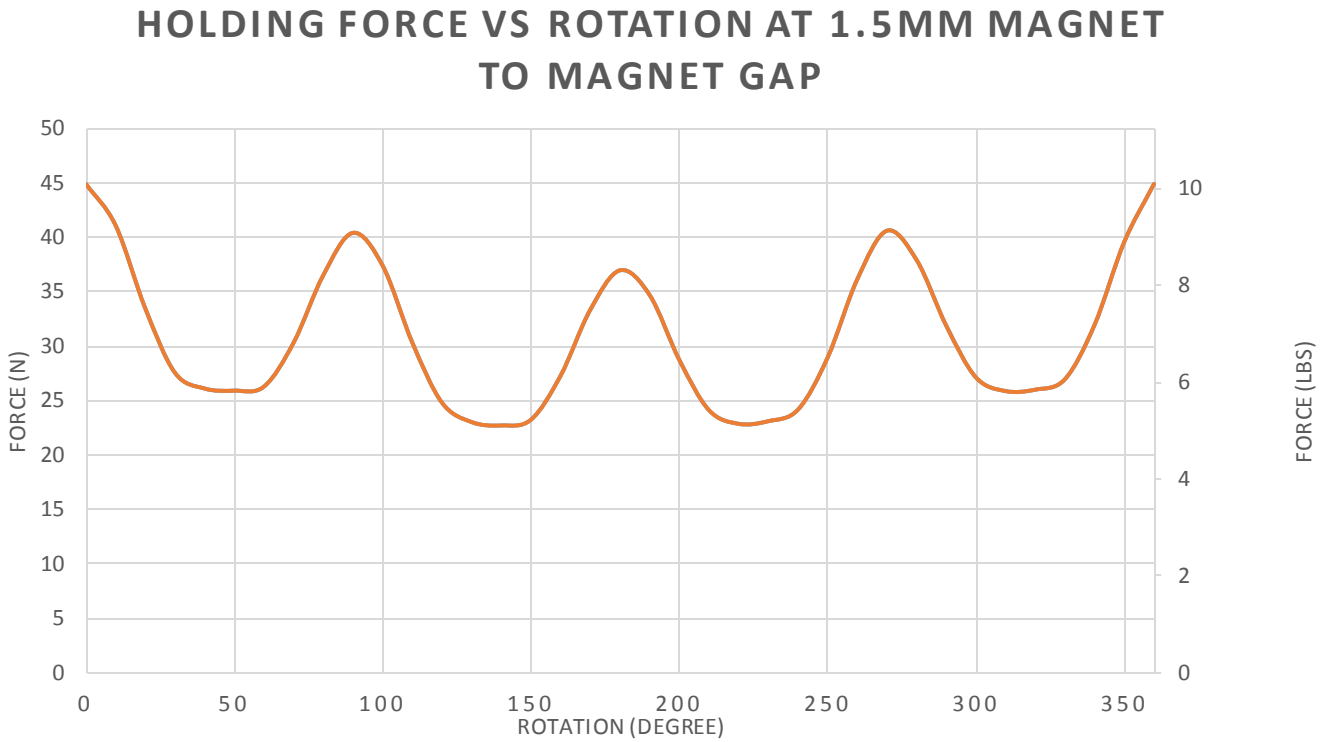

These Polymagnets are D-shaped which provides an indexing feature. This aids in the assembly process as well as provides a flat surface to resist the torque created as the magnets are rotated. In order for this system to work correctly, there must be a mechanical feature which constrains the system as seen in the picture below.

Notes on Performance Data

The performance information provided in this data sheet is derived from test or simulation results of directly comparable magnets of the same size and grade under consistent conditions. The magnets are tested under controlled environmental conditions. Unconstrained application testing may give lower forces due to the magnet tilting or shifting away from target during engagement and disengagement.

Patent Information

Pat. www.cmrpatents.com

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