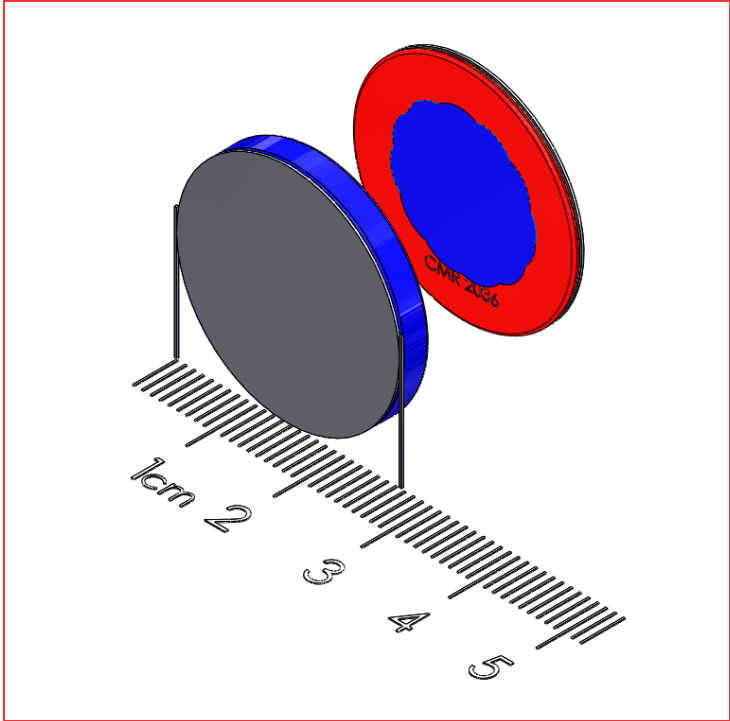


# 1002281

## Mobile Device Polymagnet pair - Center Alignment

Centering Polymagnets are engineered to provide strong attachment and a self-aligning function. 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
- Radial alignment
- 1002036 – 1" OD 0.041" thick
- 1002037 – 1" OD 3.48" thick

### Technical Specifications:

Shape Type:	Disc	
Diameter:	1.0"	
Weight:	0.04 oz	(1.1 g)
Material:	NdFeB	
Magnet Grade:	N50	
Coating:	Ni-Cu-Ni	
Temperature Rating:	140°F	(60 C)
Holding Force:	7.8 lbs	(34.7 N)
Shear:	2.3 lbs	(10.2 N)



www.polymagnet.com

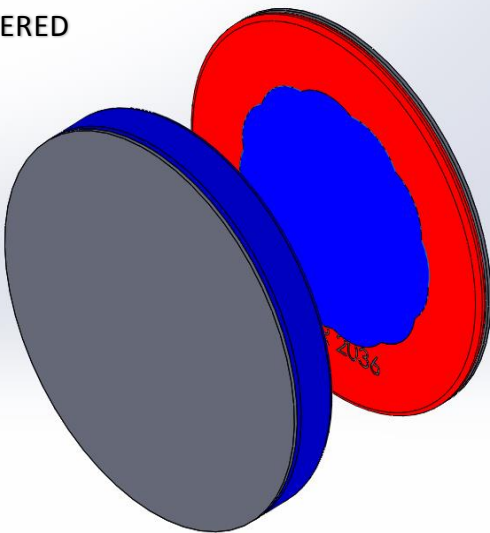
These Polymagnets provide a self-aligning feature as the magnet is moved into and out of position. The holding force decreases, as one magnet is moved off center, while the shear force pulling the magnet back to center increases. This decrease in holding force minimizes friction and provides self-alignment for the system.

\*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.

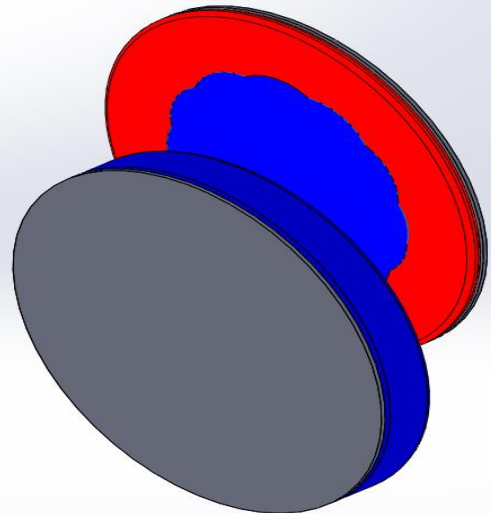
Holding Force:	7.8 lbs
Shear Force:	0 lbs

Holding Force:	2.8 lbs
Shear Force:	2.8 lbs

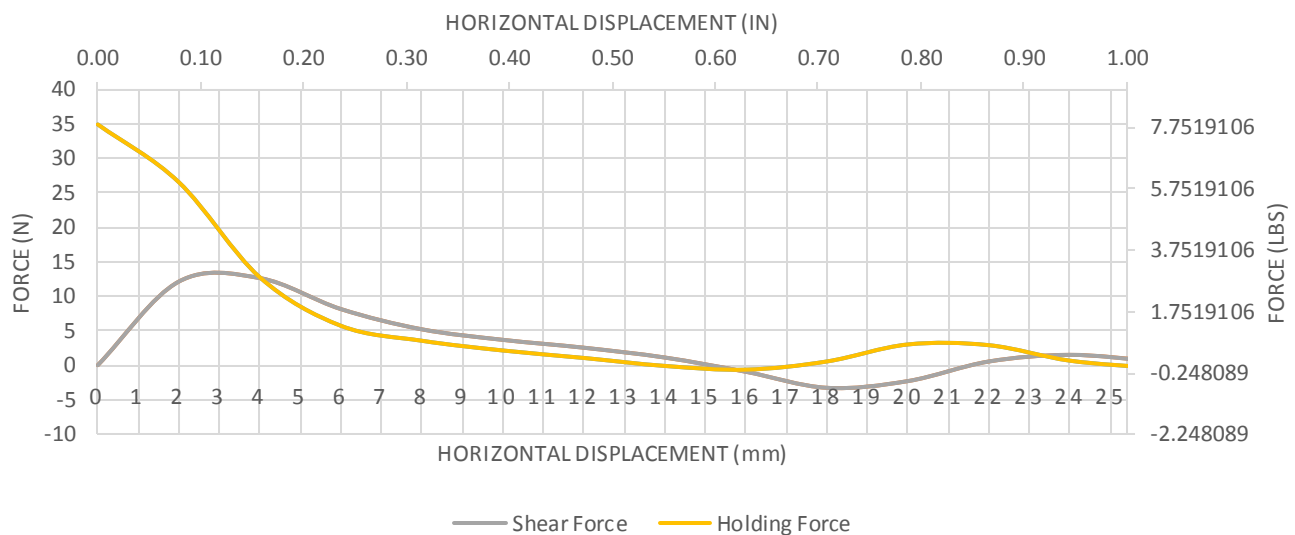
CENTERED



0.15IN OFFSET



### HOLDING FORCE VS HORIZONTAL DISPLACEMENT SHORT AXIS AT 1.5MM MAGNET TO MAGNET GAP



It is recommended to use a material with a high coefficient of friction on one of the surfaces. This will increase the mechanical shear force of the system.

#### 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](http://www.cmrpatents.com)

