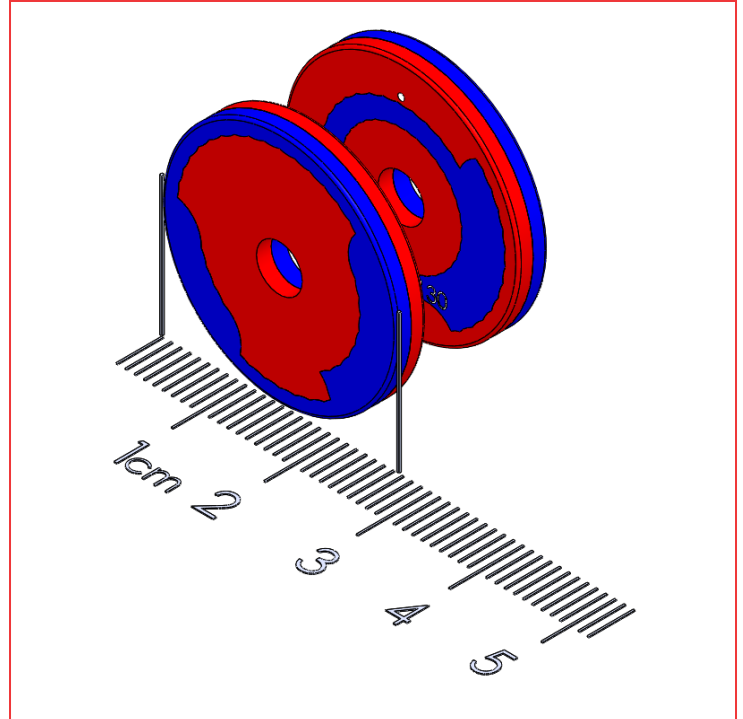


www.polymagnet.com

1002299 Spring-Latch pair – 1" Ring

The ring spring latch pair is the bare magnet set from the spring-latch set. This set must be axially constrained to perform correctly.



Features and Benefits

- Behaves like a spring in one position, and an attractive magnet pair when rotated 180 degrees.
- 1002130 – 1" OD 0.195" ID 0.125" thick
- 1002131 – 1" OD 0.195" ID 0.125" thick

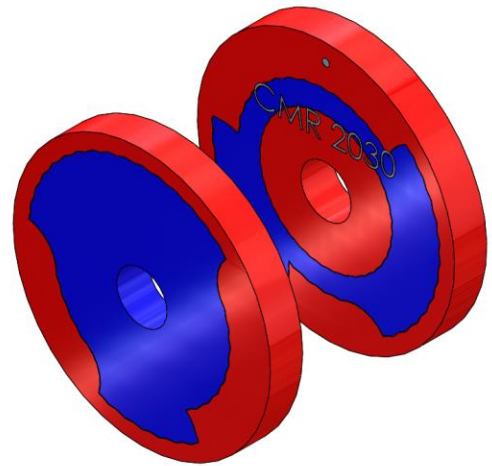
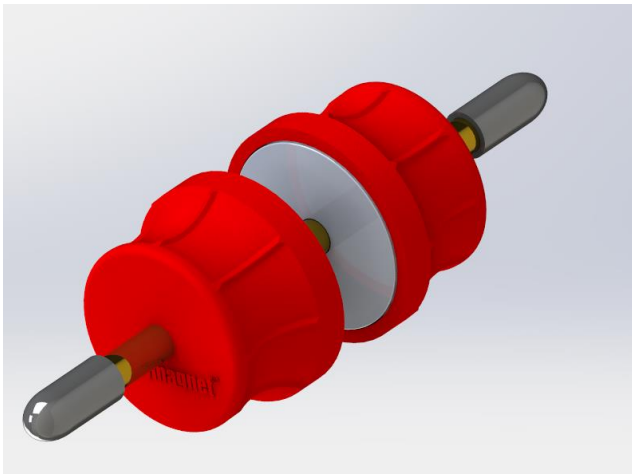
Technical Specifications:

Shape Type:	Ring	
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)

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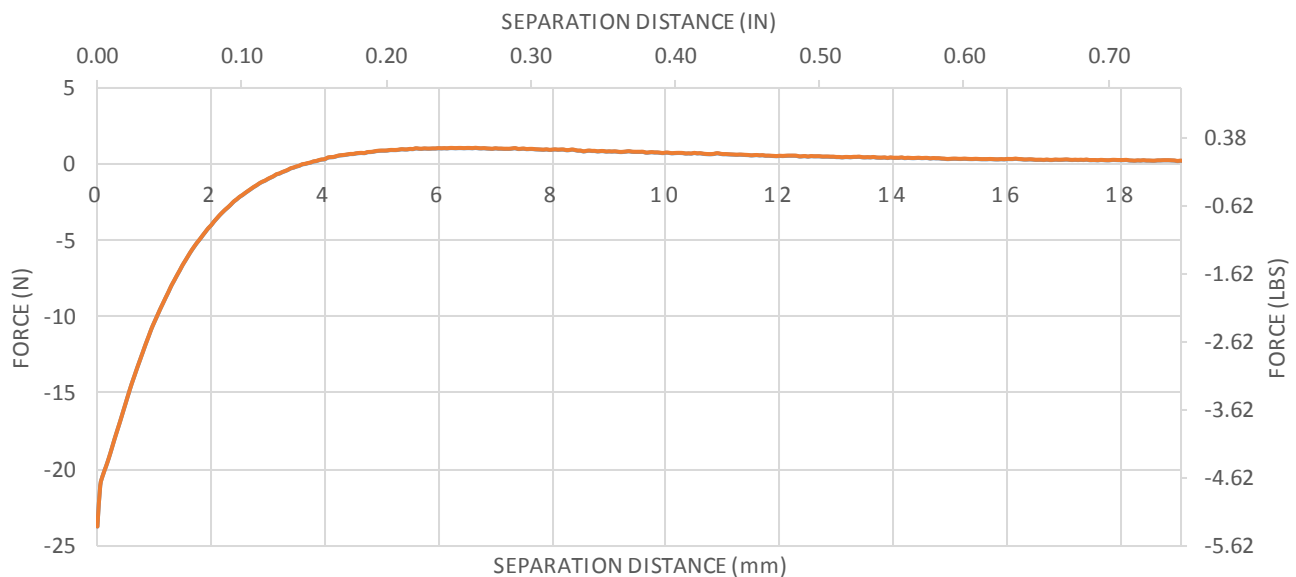
These Polymagnet exhibit unique behaviors at 0 and 180 degree positions. When aligned, they perform as a spring. When rotated 180 degrees, they clamp like regular magnets. The following plots show the expected behavior at the two positions.

*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.

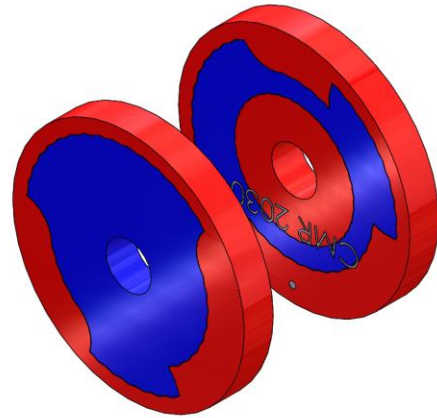
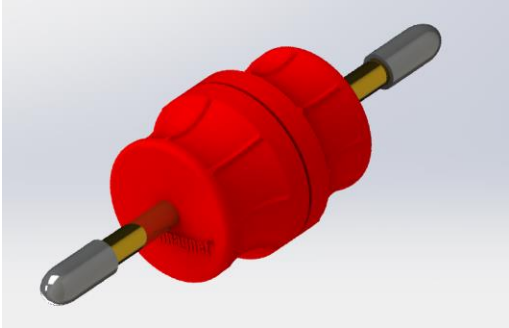


ALIGNED

HOLDING FORCE VS SEPARATION DISTANCE MAGNET TO MAGNET

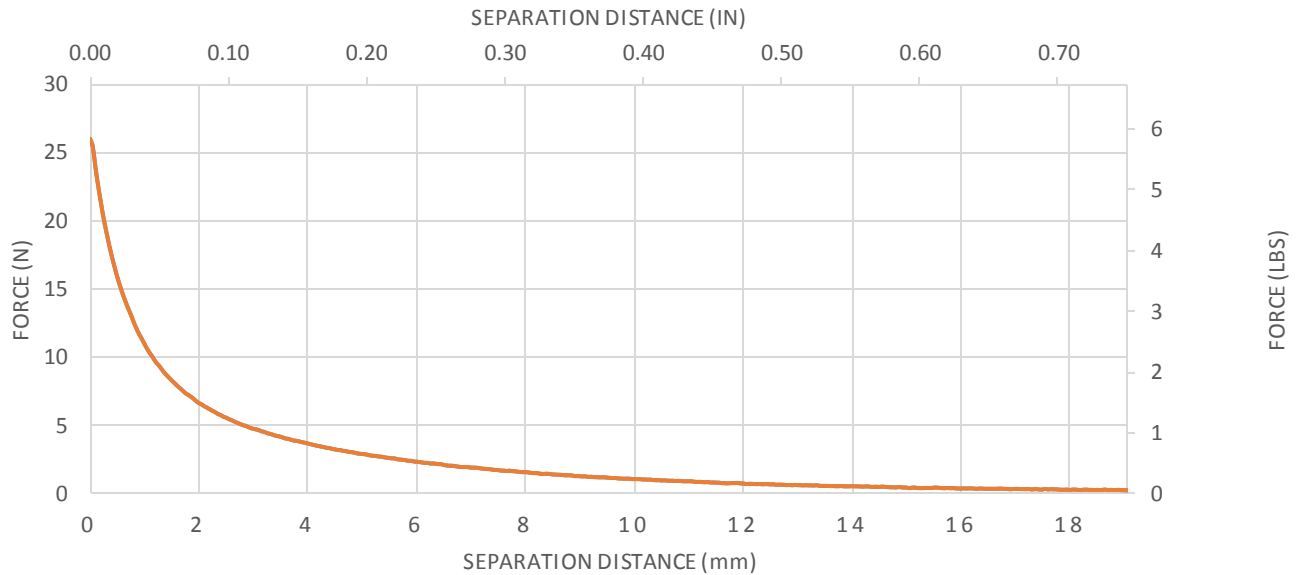


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180° ROTATION

HOLDING FORCE VS SEPARATION DISTANCE MAGNET TO MAGNET



These Polymagnets must be axially constrained to exhibit the correct behaviour.

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

