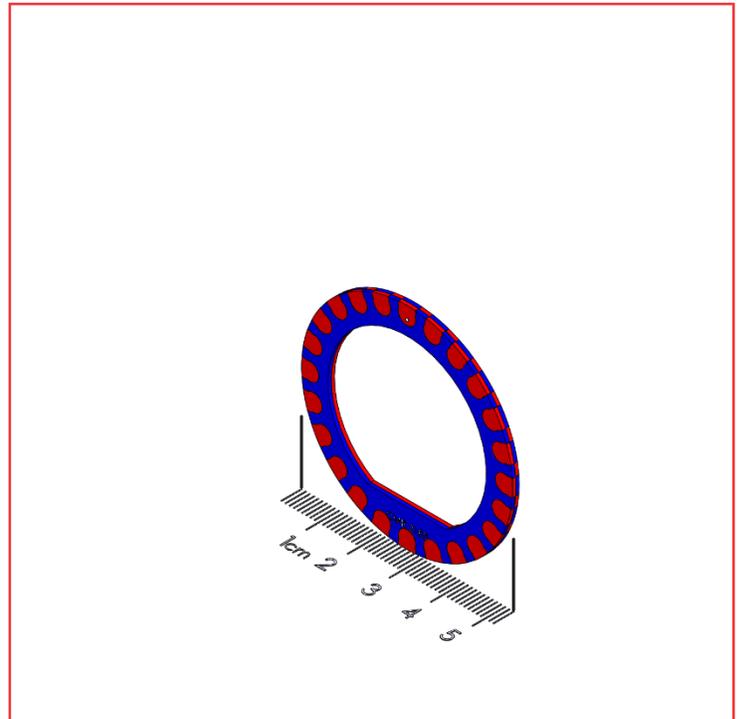


www.polymagnet.com

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Detent Polymagnets are engineered to provide strong attachment while being able to rotate to a predetermined number of discrete positions. To achieve this behavior, these magnets are used in pairs and must be axially aligned. These Polymagnets also exhibit a tightly controlled magnetic field which minimizes interference with sensitive devices.



Features and Benefits

- Rotational alignment
- 24 position detent
- Keyed thru hole

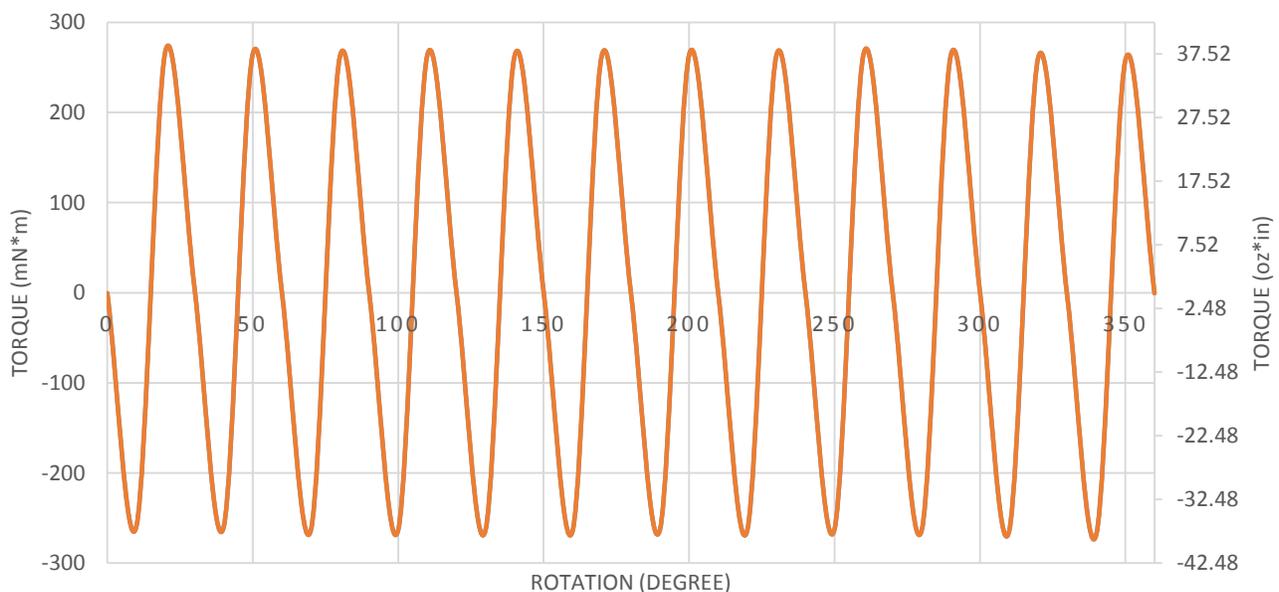
Technical Specifications:

Shape Type:	Disc w/keyed hole	
Diameter:	2.0"	
Weight:	0.4oz	(10.8g)
Material:	NdFeB	
Magnet Grade:	N40	
Coating:	Ni-Cu-Ni	
Temperature Rating:	176° F	(80° C)
Holding Force:	7.5lbs	(33.5N)
Max Torque:	38.0oz*in	(268.4mN*m)

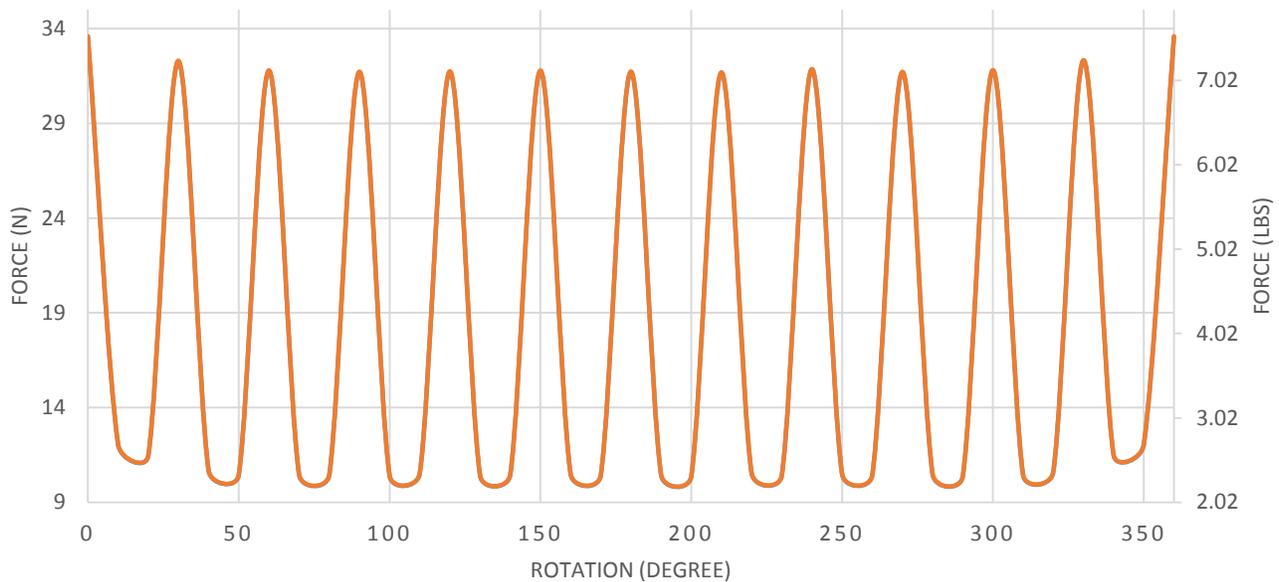
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These magnets exhibit a high holding force while having detent positions every 15 degrees. The holding force is at a maximum of 33.5 N when the magnets are aligned every 15 degrees. When the Polymagnets are offset, torque exists toward the position of higher attractive force. This torque peaks at 268.4 mN*m

TORQUE VS ROTATION AT 1.5MM MAGNET TO MAGNET GAP



HOLDING FORCE VS ROTATION AT 1.5MM MAGNET TO MAGNET GAP



These Polymagnets provide an indexing feature. This aids in the assembly process as well as provides a flat surface to resist torque created as the magnets are rotated.

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

