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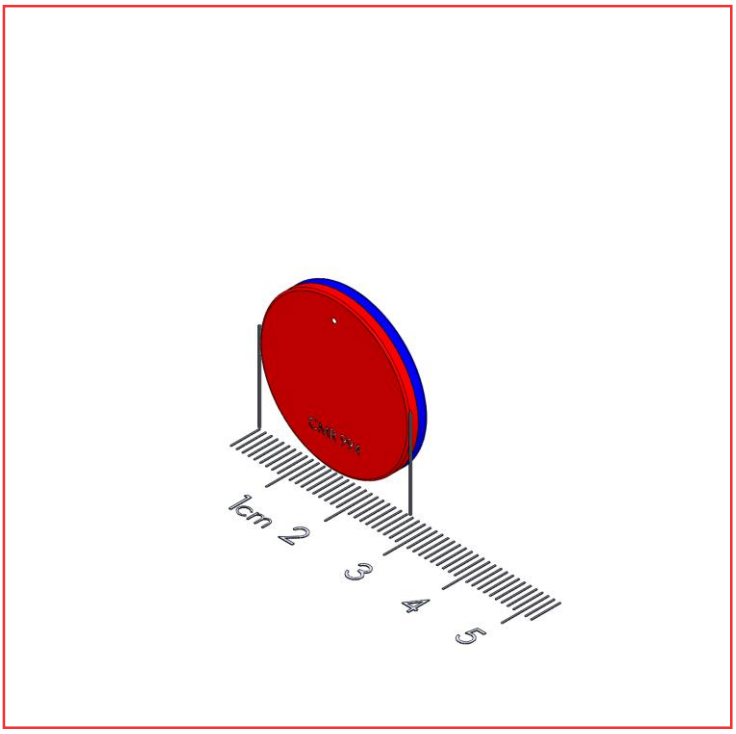
These magnets are high strength conventional neodymium magnets.



Technical Specifications:

Dimensions:	1 OD x 0.125 in (25.4 OD x 3.175 mm)
Weight:	0.4 oz (11.9 g)
Material:	NdFeB
Magnet Grade:	N40
Coating:	Ni-Cu-Ni
Temperature Rating:	176 ° F (80 ° C)

Features and Benefits

- Magnet-To-Magnet, Magnet-To-Metal
- Not designed for alignment
- Shear Resistance: No
- Pairs With: SELF

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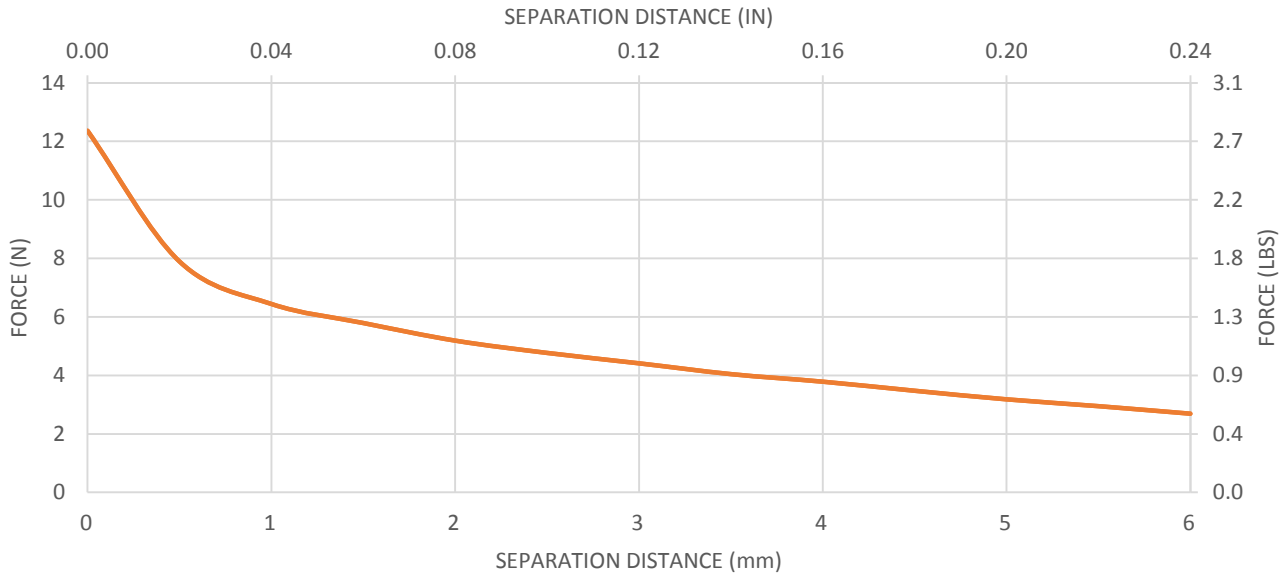
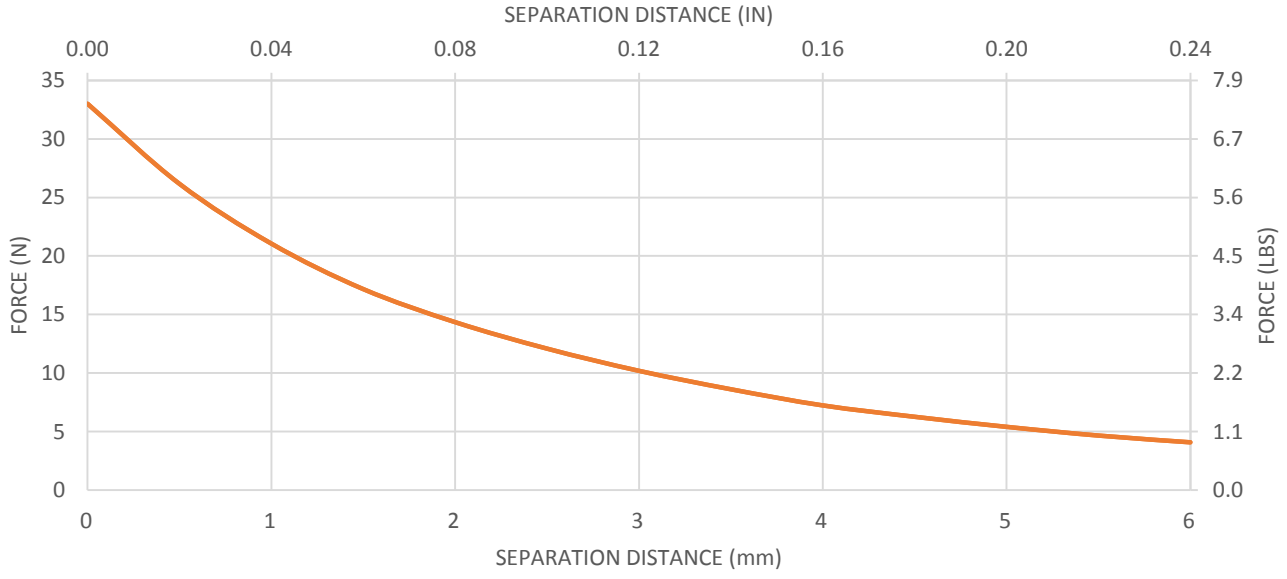
HOLDING FORCE VS SEPARATION DISTANCE MAGNET TO 0.010"(0.25mm) STEEL



HOLDING FORCE VS SEPARATION DISTANCE MAGNET TO 0.031"(0.79mm) STEEL



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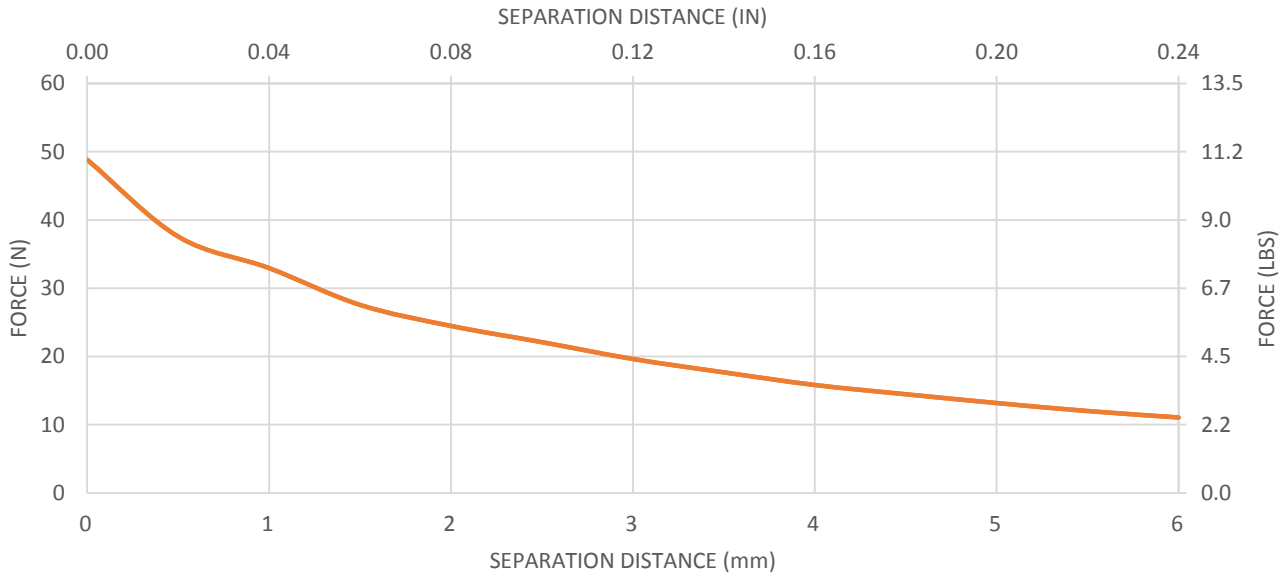
HOLDING FORCE VS SEPARATION DISTANCE MAGNET TO MAGNET



Target	Separation Distance						
	Contact	0.5mm (0.02in)	1.0mm (0.04in)	1.5mm (0.06in)	2.0mm (0.08in)	2.5mm (0.10in)	3.0mm (0.12in)
Steel Thickness 0.254mm (0.010in)	12.4N (2.8LBF)	7.9N (1.8LBF)	6.4N (1.4LBF)	5.8N (1.3LBF)	5.2N (1.2LBF)	4.8N (1.1LBF)	4.4N (1.0LBF)
Steel Thickness 0.7874mm (0.031in)	33.0N (7.4LBF)	26.2N (5.9LBF)	21.1N (4.7LBF)	17.2N (3.9LBF)	14.3N (3.2LBF)	12.1N (2.7LBF)	10.2N (2.3LBF)
Magnet to Magnet SELF	48.8N (11.0LBF)	37.6N (8.4LBF)	32.9N (7.4LBF)	27.6N (6.2LBF)	24.5N (5.5LBF)	22.1N (5.0LBF)	19.6N (4.4LBF)

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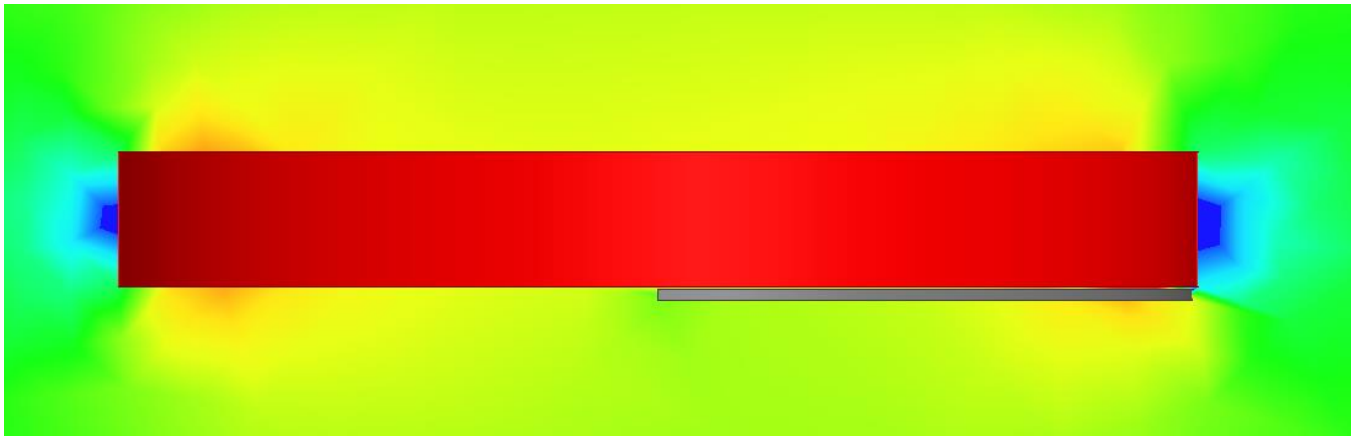
The image below shows the magnetic field differences between the conventional magnet without a shunt and the conventional magnet with a shunt.

Magnet with no shunt

Magnet with shunt



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. Magnetic performance may vary by up to 7%, the values presented here are based on nominal magnetic properties

Patent Information

Pat. www.cmrpatents.com

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