

# Neodymium Magnets

## RING MAGNETS

Neodymium Iron Boron (NdFeB) is used to manufacture the most powerful magnets per unit volume that are commercially available today. They are used where a small size and maximum power are needed.

Neodymium Magnets exert very high forces and can attract each other through unbelievably large distances making them very popular for a wide range of applications including furniture manufacturing, joinery, design and display, security, lighting, or for any application where mechanical fixing is required.

Depending on the application, it may be a requirement to have a hole inside the disc magnet. This is sometimes called a ring magnet. Although the hole can be placed at nearly any position on the disc (e.g. as part of the Made to Order range), the hole is almost always centrally located. The ring magnet is used for fixing the magnet to another item (as part of an assembly) or is used (particularly with large ring magnets) to make use of the parallel magnetic field within the aperture of the ring.

Many of these discs with central holes (ring magnets) have countersunk holes for ease of fixing with a countersunk screw. Please note that these countersunk ring magnets have the magnetic pole on the

DATA SHEET



countersunk face stated. If using a countersunk disc with central hole magnet (countersunk ring magnet) to attract a piece of mild steel, any magnet polarity can be used but if two countersunk face magnets are being used to attract each other via contact between the countersunk faces then one magnet must have a South countersunk face and the other magnet must have a North countersunk face (applying the rule of unlike Poles attract).

The magnets are triple coated (NiCuNi) for maximum protection against corrosion. Standard manufacturing tolerance is +/- 0.1mm on all dimensions.

If you need discs with central holes (ring magnets) of different dimensions and/or with specific countersunk requirements, please get in touch.

Part No.	Description	Pull
<b>Grade - N42 - NiCuNi plated</b>		
EP300	6mm dia x 5mmA x 2mm dia hole	1.3kg
EP328A	SQUARE - 10mm x 10mm x 5mmA c/w 4mm dia csk Hole - NORTH	2.4kg
EP328B	SQUARE 10mm x 10mm x 5mm c/w 4mm csk Hole - SOUTH	2.4kgs
EP373A	10mm dia x 2mmA x 3mm dia csk hole NORTH	0.9kg
EP373B	10mm dia x 2mmA x 3mm dia c/sunk hole SOUTH	0.9kg
EP387	10mm dia x 2mmA x 5mm hole	0.7kg
EP301A	10mm dia x 5mmA x 3.2mm dia c/sunk hole NORTH	2.1kg
EP301B	10mm dia x 5mmA x 3.2mm dia c/sunk hole SOUTH	2.1kg
EP338A	15mm dia x 2mmA x 3mm dia c/sunk hole NORTH	1.5kg
EP338B	15mm dia x 2mmA x 3mm dia c/sunk hole SOUTH	1.5kg
EP388	15mm dia x 3mmA x 8mm hole	1.3kg
EP314	20mm dia x 10mmA x 6mm dia c/sunk hole NORTH	9.4kg
EP315	20mm dia x 10mmA x 6mm dia c/sunk hole SOUTH	9.4kg

Part No.	Description	Pull
<b>Grade - N42 - NiCuNi plated</b>		
EP312A	20mm dia x 2mmA x 3mm dia c/sunk hole NORTH	2.2kg
EP312B	20mm dia x 2mmA x 3mm dia c/sunk hole SOUTH	2.2kg
EP389	20mm dia x 3mmA x 15mm hole	1.0kg
EP374A	20mm dia x 5mmA x 5mm dia c/sunk hole NORTH	4.7kg
EP374B	20mm dia x 5mmA x 5mm dia c/sunk hole SOUTH	4.7kg
EP651A	23mm dia x 20mmA x 6mm dia c/sunk hole NORTH	23.2kg
EP651B	23mm dia x 20mmA x 6mm dia c/sunk hole SOUTH	23.2kg
EP391N	24mm dia x 8mmA x 12mm dia hole	9.1kg
EP313A	25mm dia x 5mmA x 6mm dia c/sunk hole NORTH	6.0kg
EP313B	25mm dia x 5mmA x 6mm dia c/sunk hole SOUTH	6.0kg
<b>Grade - N42 - Gold plated</b>		
EP326	6mm dia x 6mmA x 3mm dia hole	1.2kg
EP391G	24mm dia x 8mmA x 12mm dia hole	9.1kg