



## YOU MUST READ THIS INFORMATION BEFORE HANDLE THE INCLUDED MAGNETS

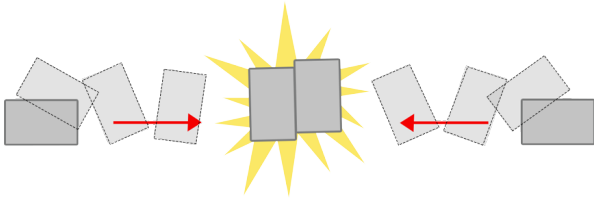


### LIABILITY

Magnet Expert Ltd does not accept any responsibility for damage caused by the improper handling of supplied magnets. Magnets can have a surprising amount of magnetic power and if handled incorrectly can be very dangerous. Please ensure that anyone handling these magnets has read and understood the provided warnings.

### DANGERS OF BREAKING, CHIPPING OR LEAPING TOGETHER

Typically magnets are very brittle and will break if allowed to collide. When placed loosely apart they could leap together unexpectedly with extreme speed and force, which could shatter and break the magnets. Stronger magnets could injure your finger if it is caught between them. Broken fragments are sharp and can become projectiles posing a danger to eyes. Powerful magnets should be handled one at a time.

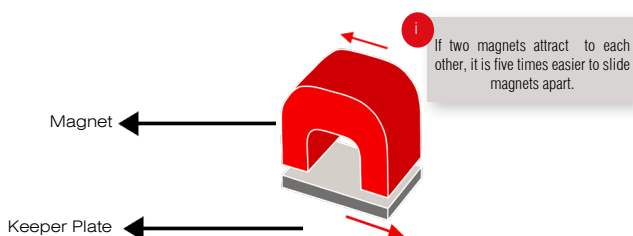


### HEART PACEMAKERS & OTHER MAGNETICALLY SENSITIVE ITEMS

Keep a safe distance (50mm+) between magnets and all objects that can be damaged by magnetism including mechanical watches, heart pacemakers, CRT monitors and televisions, credit cards, diskettes and other magnetically stored media. The operation of heart pacemakers will be affected by the close proximity of a magnet. Magnets can set a pacemaker working in a way that is not suitable for the user and that might affect their health.

### DEMAGNETISATION

Weaker magnetic materials such as Ferrite or Alnico can be magnetically damaged by more powerful magnets such as neodymium magnets. Always stored these materials separately to avoid any permanent damage. Alnico magnets will reduce in strength if they are stored without their steel keeper plate which connects their two poles. Some Alnico magnets can be kept by storing them in attracting rows. When storing Alnico magnets ensure they are kept to maintain their magnetic performance. To remove the keeper plate, slide the plate away for the base of the magnets. Keep it moving until it is a safe distance away (250mm).



### ADDITIONAL INFORMATION

These warnings are designed to provide safety advice for the majority of products with the applicable range. However, some of our products may come with an additional information sheet that includes further information for the specific product supplied. Please ensure any additional provided documentation is also read and understood before opening and handling the product.

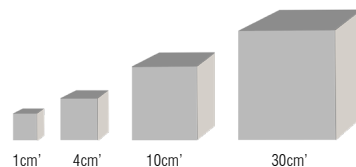
For more detailed health and safety information about the use of magnets please visit us at: [www.magnetexpert.com](http://www.magnetexpert.com)

### DANGERS TO CHILDREN

Under no circumstances should children be allowed to handle powerful magnets (3kg+) or any magnets made from rare earth materials such as neodymium or samarium cobalt. Additional to the clear dangers of the attractive forces of larger powerful magnets, if two or more small rare earth permanent magnets such as neodymium magnets are swallowed, they could attract each other through the walls of the intestines, this would cause major swelling, life-threatening injuries and require surgery to remove them. You must ensure that children cannot access or swallow small magnets. Small magnets of any material are also a choking hazard.

### SIZES AND RISK FROM TWO MAGNETS (NEODYMIUM / SAMARIUM COBALT)

PULL STRENGTH AND RISK OF TWO MAGNETS	
1cm <sup>3</sup> + risk of nipping	10cm <sup>3</sup> + risk of cuts
4cm <sup>3</sup> + risk of blood blisters	30cm <sup>3</sup> + risk of crushing finger tips

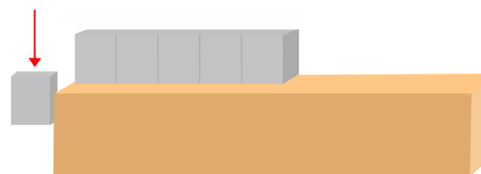


### SURFACE PLATING, ALLERGIES & RESIDUE

Rare earth permanent magnets such as Neodymium magnets are usually coated with a protective plating. This plating can wear away in the course of normal use if it involves repeated sliding or impact against the magnet. If the plating layers are worn away, then the magnet will be exposed to corrosion and could rust. Typically this plating will contain nickel making prolonged skin contact not recommended for those with nickel allergies. Other magnetic materials such as ferrite do not require a protective plating, however the material itself can be dusty and may leave a residue on fingers after handling. This residue is not corrosive or harmful and can be washed off with warm soapy water.

### SEPARATING STRONG MAGNETS

Use a strong non-magnetic surface, such as a wooden table or desk. Ensure that there are no magnetic materials including things such as supports or legs in the path of the magnet during the separation. Overhang one magnet at the edge of the desk and apply a strong downward pressure to separate. Once separated, continue the motion to keep the magnet moving to a safe distance of 500mm+. Extremely powerful magnets should only be separated using suitable equipment and should not be separated by hand as the attractive forces are sufficient to crush fingers. Please contact us for advice before attempting to separate extremely powerful magnets (30cm<sup>3</sup> +).



### EXTREMELY POWERFUL MAGNETS

Extremely powerful magnets are incredibly dangerous if handle incorrectly and can cause serious injuries. Please read the additionally supplied booklet before opening and handling the magnet(s).