

CTM Magnets

CRACK
TeST
PRODUCTS



Rare earth magnets
Never lose their magnetism
Lift 18 kilogram test block
Manufactured in Australia

Permanent Magnets

CrackTest® MPI Permanent Magnets - AL Body



CTM - CrackTest® Permanent Magnets Aluminium Body (1 Pair - Gold Anodised). The body of these magnets are machined in Australia from Aluminium and use rare earth magnets. The bodies are anodised and are supplied with a mild steel keeper. These magnets lift the standard 18kg test block.

CrackTest® MPI Permanent Magnets - SS IS Ex Body



CTM - CrackTest® Permanent Magnets Stainless Steel body are used as a pair for Magnetic Particle Inspection (MPI) or Magnetic Particle Testing (MPT). Permanent magnets are used when it is either not practical or not safe to be running AC power for an electromagnetic yoke. The body of these magnets are machined in Australia from stainless steel and use rare earth magnets behind a plated mild steel end cap.

The bodies are supplied with a mild steel keeper to contain the strong magnetism when not in use and for transport.

The stainless steel body configuration of these magnets were designed to be intrinsically safe. (The stainless steel bodies of these magnets make safe for use in underground coal mines and other areas where aluminium items are banned.)

The holes in the head of the magnet are there so a rope or Stainless Steel wire can be looped in order that the magnets can be hung around the neck of an operator for carrying or when climbing.

These magnets lift the standard 18kg test block that is a strength requirement for the use of permanent magnets.

A **rare-earth magnet** is a strong permanent magnet made from alloys of rare earth elements, or lanthanide metals, with other metals. They are substantially stronger than ferrite or alnico magnets. The magnetic field produced by rare-earth magnets can be well over 1.2 teslas. By comparison, ferrite or ceramic magnets typically exhibit around 50 to 100 milliteslas. The most powerful and affordable type of rare-earth magnet is a neodymium magnet. Neodymium magnets are made of neodymium, iron and boron in the formula $\text{Nd}_2\text{Fe}_{14}\text{B}$.



WARNING: Persons wearing heart Pacemakers should not be exposed to strong magnetic fields such as those coming from CTM Magnets.



Russell Fraser Sales Pty Ltd

Unit 7/38 Waratah St
Kirrawee NSW 2232

Ph: (02) 9545 4433
Fax: (02) 9545 4218

Email: rfs@rfsales.com.au
Web: www.rfsales.com.au

ABN: 79 074 258 549