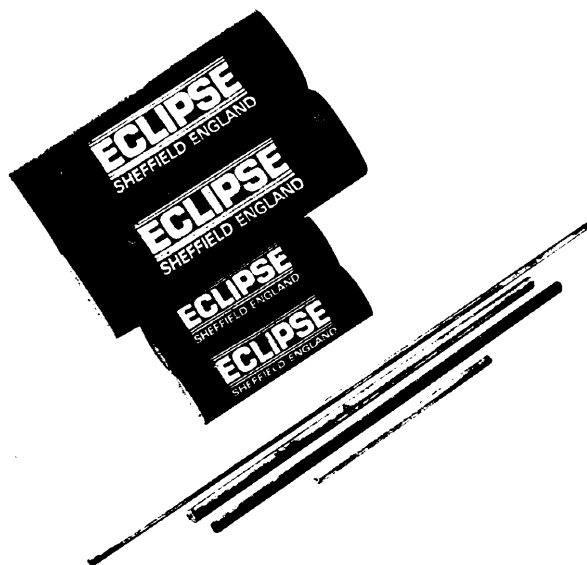


Permanent Magnets

Eclipse Magnetics manufacture and supply a comprehensive range of Permanent Magnets, Magnetic Workholding and Magnetic Tools, that are used in a wide range of industrial applications. This catalogue illustrates the products available from our Popular Range of Permanent Magnets.

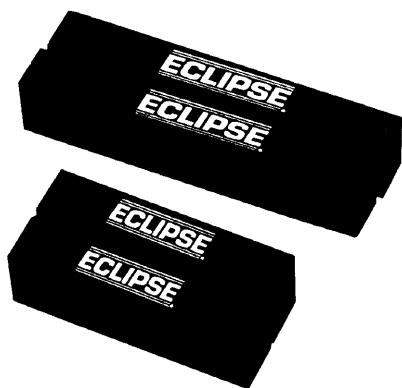
Cylindrical Bars

- Utilises powerful Alcomax III magnetic materials
- Each magnet has a high length to cross section ratio
- Bar magnets have magnetic poles at each end
- Suitable for uses at high temperatures
- Excellent for components using Reed switches
- Ideal for use as damping magnets, sump plugs and machine guards
- Excellent in electrical meters and circuit boards
- Suitable for use in sewing and coin operated machines
- Ideal for use in security systems



Product No.	Diameter (mm)	Length (mm)	Weight per pair (Kg)
E805	6	20	0.02
E806	8	25	0.04
E807	10	30	0.07

Rectangular Bar Magnets



- Utilises both Alcomax III and Alnico materials
- Rectangular Bar Magnets have magnetic poles at both ends of the bar
- Each magnet has a high length to cross section ratio
- The poles of the magnet are ground
- North pole is indicated by a notch
- Supplied in pairs
- Suitable for components using Reed switches and relays
- Ideal for use as damping magnets
- Ideal for use in weighing scales

Product No.	Width (mm)	Height (mm)	Length (mm)	Weight per pair (Kg)
E844	10.0	5	20	0.03
E845	12.5	5	40	0.04
E846	15.0	5	60	0.13

Magnet material: Alcomax III

Product No.	Width (mm)	Height (mm)	Length (mm)	Weight per pair (Kg)
E842	15	10	50	0.22
E843	15	10	75	0.33

Magnet material: Alnico

Permanent Magnets

Button Magnets

- Cylindrical magnet with both poles in the same plane
- Utilises powerful Alnico magnetic materials
- Can be used in temperatures up to 550°C
- Excellent for use in attracting applications
- Suitable for magnetic sump plug driver units
- Ideal in dipping jigs for painting
- Excellent for temperature sensitive devices
- Ideal for use as damping magnets
- Suitable for use in relay switches



Product No.	Diameter (mm)	Length (mm)	Min-Max. Slot size (mm)	Hole size (mm)	Weight (Kg)	Max. pull (Kg)
E821	12.5	9.5	4.0 - 7.2	4.5	0.006	0.7
E822	19.1	12.7	5.6 - 8.7	4.8	0.020	1.9
E823	25.4	15.9	5.6 - 8.7	4.8	0.050	3.4
E824	31.8	25.4	8.0 - 12.7	7.1	0.113	4.8
E825	22.2	19.1	6.4 - 6.4	4.8	0.050	3.0

Minor Magnet

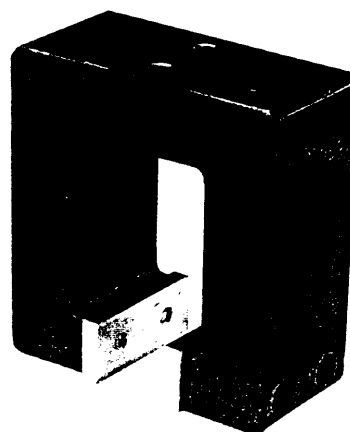


- Powerful Alcomax 3 magnetic material cast in mild steel
- Ground finished magnetic poles
- Large gap design for highest practical field strength
- Ideal for picking up objects
- Excellent for holding, clamping and positioning components
- Suitable for use in heat treatment applications up to 550°C
- Can be used in jigs and fixtures

Product No.	Width (mm)	Height (mm)	Length (mm)	Weight Each (Kg)
E801	7.9	11.1	22.2	0.02

Major Magnet

- The Major Magnet is cast using powerful Alcomax 3 magnetic material and mild steel
- The poles of the magnet are ground finished
- The large gap design provides the highest practical field strength
- Ideal for magnetising small components like bar magnets
- Suitable for use in wave guidance applications



Product No.	Height (mm)	Width (mm)	Thickness (mm)	Weight (Kg)	Flux density at gap centre (wb/m ²)
862	111	103.5	50	2.9	0.210

Permanent Magnets

Pocket Magnets

- Magnet designed with both poles in the same plane
- Utilises powerful Alnico magnetic materials

Permanent Magnets

Pot Magnets

- Cylindrical magnets in a mild steel pot with poles in the same plane
- Pot is an essential part of the magnetic circuit
- Threaded hole for secure fixing
- Provides superior grip at contact
- Can be machined to achieve profile or fit requirements
- Operates in temperatures up to 220°C
- Can be fitted to steel without adverse effects
- Suitable for gripping and lifting applications
- Ideal for use in positioning jigs and soldering fixtures
- Can be used in securing items
- Excellent for use in water leakage devices
- Suitable for use in injection moulding industry



Product No.	Diameter (mm)	Length (mm)	Hole size (mm)	Unit of pack	Weight (Kg)	Maximum (Pull Kg)
829	9.5	15.1	M3	10	0.005	1.00
830	12.7	15.9	M4	10	0.015	2.00
831	17.5	16.0	M6	10	0.023	2.65
832	20.5	19.0	M6	10	0.040	4.00
833	27.0	25.0	M6	5	0.085	6.10
834	35.0	30.0	M6	5	0.184	14.75

Shallow Pot Magnets



- Shallow Pot Magnets are all cylindrical permanent magnets assembled concentrically in a mild steel pot
- The pot is an essential part of the magnetic circuit as it provides a return path for the flux
- Shallow Pot magnets are cast using powerful Alcomax 4 magnetic materials
- Highly resistant to demagnetising effects
- Supplied with keeper
- Maximum operating temperature 220°C (826 is 100°C)
- Ideal for where a strong grip is required and height is restricted
- Suitable for securing items
- Excellent for holding items

Product No.	Diameter (mm)	Height (mm)	Hole size M3 (csn)	Screw head size	Weight (Kg)	Max pull (Kg)
826	19.1	7.50	3.7 - 6.7	M3 Csk	0.01	3
827	28.6	8.70	4.8 - 8.6	M4 Csk	0.03	5
828	38.1	10.35	4.8 - 8.6	M4 Csk	0.08	13

Gripping Magnets

NeoHold Bipole Gripping Magnets

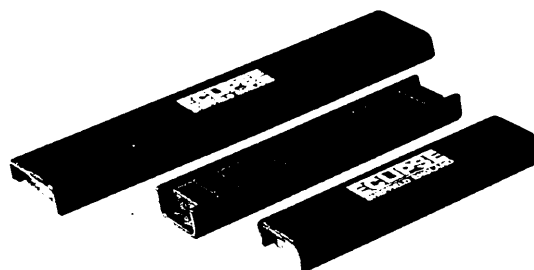
- Strong gripping force with 2 poles on the same face
- Range has threaded holes on the top face
- Equal or greater holding power than standard Alnico



Gripping Magnets

Ferrite Channel Magnets

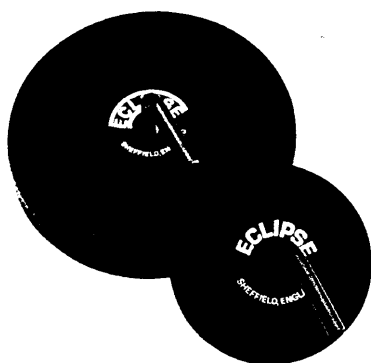
- Ferrite Channel Magnets are shallow limpet type magnets set in a mild steel shell
- Ferrite Channel Magnets are manufactured using ceramic ferrite magnetic materials
- Maximum operating temperature 80°C
- Ideal for use as bases for machine tool accessories



- Can be used in light fittings where temperatures do not exceed 80°C

Product No.	Length (mm)	Width (mm)	Height (mm)	Weight Each (Kg)	Pull (max) (Kg)
E898/1	115	30	13	0.20	8
E898/2	130	30	13	0.25	14
E899	190	43	13	0.50	48

Ferrite Shallow Holdfasts

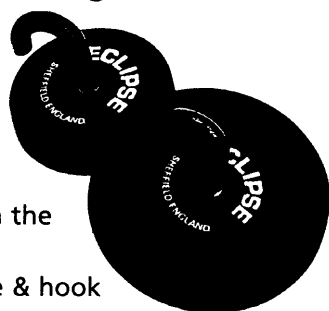


- Cylindrical magnets assembled in a mild steel pot
- Utilises ceramic ferrite magnet materials
- Magnetic poles are on the same face
- Supplied with M6 threaded hole & screw down bolt for accurate positioning and easy disengagement
- Maximum operating temperature 80°C
- Ideal for use as bases for machine tool accessories
- Suitable for securing and fixturing applications
- Can be used in industrial light fitting applications
- Excellent for holding and clamping requirements

Product No.	Width (mm)	Height (mm)	Weight (Kg)	Pull (max) (Kg)
E895	66	10.7	0.27	25
E896	76	12.5	0.30	33
E897	100	15.0	0.61	55

Ferrite Shallow Pot Magnets

- Cylindrical magnets assembled in a mild steel pot
- Utilises ceramic ferrite magnet materials
- Magnetic poles are on the same face
- Supplied with M6 hole & hook for easy removal
- Highly resistant to demagnetising effects
- Maximum operating temperature 80°C

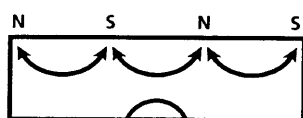


- Ideal for applications with height restrictions
- Can be used as a hook
- Ideal for use as bases for machine tool accessories
- Excellent for securing and fixturing requirements
- Can be used in industrial light fittings
- Suitable for use in microwave applications

Product No.	Width (mm)	Height (mm)	Weight (Kg)	Pull (max) (Kg)
E890	46	10.7	0.09	6
E891	56	10.7	0.13	16
E892	66	10.7	0.19	25

Ceramic and Flexible Ferrite Magnets

Magnetic Discs



Non-Magnetic face

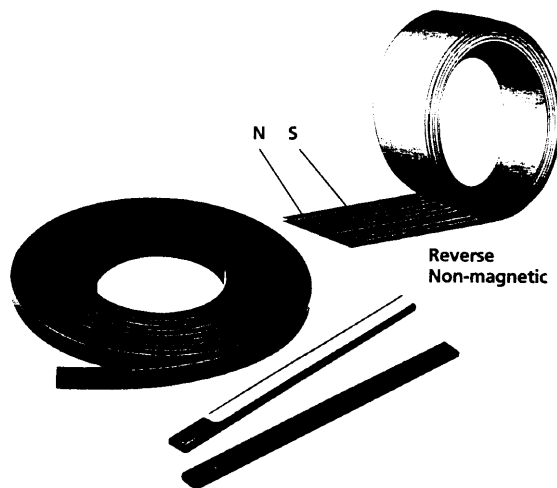


- Magnetic discs are 'magnetic drawing pins' and are permanently magnetic on one face
- Magnetic discs contain ceramic magnetic material
- Highly resistant to de-magnetisation
- Can be supplied with coloured plastic caps
- Maximum temperature 100°C
- Can be used as marker magnets
- Ideal for holding notes, signs and heavy visual aids
- Ideal for fridge magnets
- Suitable for use in magnetic toys and games

Product No.	Diameter (mm)	Thickness (mm)	Magnets (per pack)	Packs (per box)
CM 700	14	5	10	10
CM 701	20	5	10	10
CM 702	30	5	10	10

Flexible Magnets

- Flexible magnetic materials are supplied in sheet, strip and adhesive backed finishes
- Flexible magnetic materials are on an extrusion of Barium Ferrite and have a permanent magnetic surface on one face
- Soft material with strong magnetic hold to prevent slippage
- Flexible strip and sheets available with a coloured vinyl finish
- Surfaces on both strips and sheets will accept flexible paint
- Magnetic sheets can be used for vehicle signs, toys and games, magnetic filters, magnetic 'L' plates and point of sale displays
- Magnetic strips can be used for door closures, double glazing, magnetic signs, Reed switch operations and magnetic toys



Product No.	Width (mm)	Thickness (mm)	Length (m)
FM 670	9.5	3.6	10

Magnets for Planning, Labelling & Display

Planner Magnets

■ Flexible tiles and tapes laminated with coloured vinyls