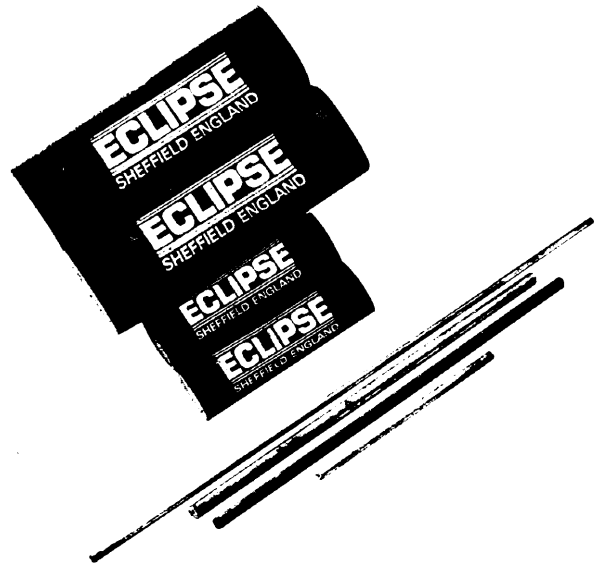


Permanent Magnets

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.

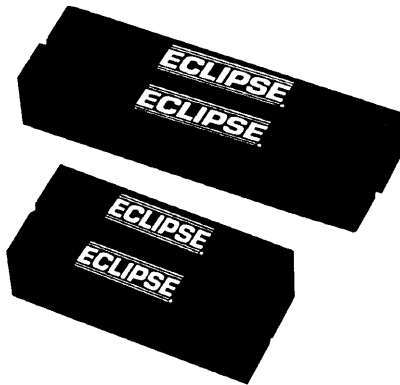
Cylindrical Bars

- 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

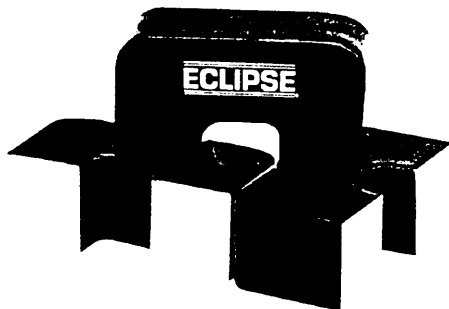
Button Magnets

- 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

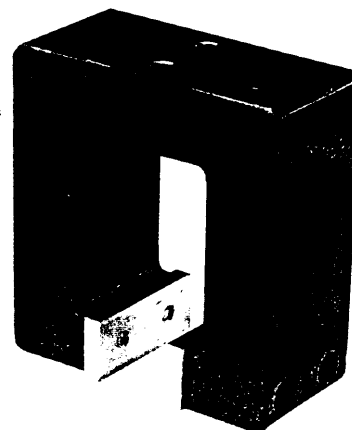


- Powerful Alcomax 3 magnetic material cast in mild steel
- Ground finished magnetic poles
- Large gap design for highest practical field strength
- Ideal for picking up objects
- Excellent for holding, clamping and positioning components
- Suitable for use in heat treatment applications up to 550°C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

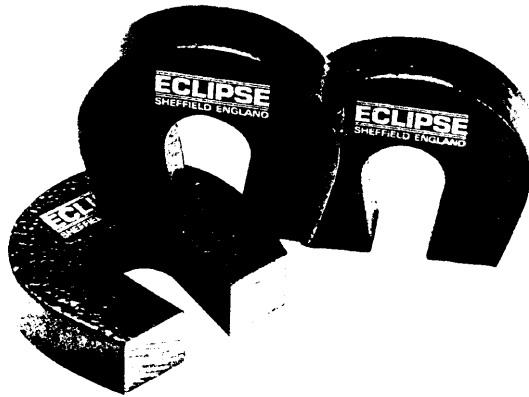
- The Major Magnet is cast using powerful Alcomax 3 magnetic material and mild steel
- The poles of the magnet are ground finished
- The large gap design provides the highest practical field strength
- Ideal for magnetising small components like bar magnets
- Suitable for use in wave guidance applications



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

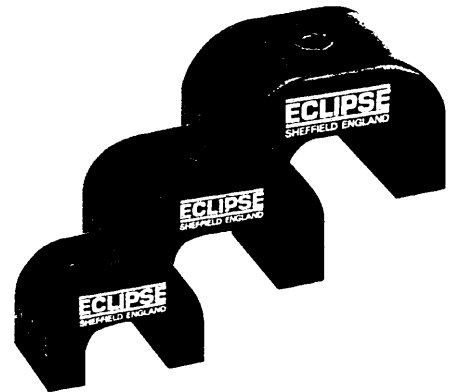


- Magnet designed with both poles in the same plane
- Utilises powerful Alnico magnetic materials
- Poles of magnet are ground
- Supplied with keepers
- Ideal for use in high temperature applications up to 550° C
- Can be used in paint plants
- Ideal for the testing of ferrous type materials
- Excellent for holding components

Product No.	Length (mm)	Height (mm)	Width (mm)	Width of Gap (mm)	Weight (Kg)	Maximum Pull (Kg)
E802	22.2	25.4	7.9	6.4	0.03	2.4
E803	27.0	35.0	15.9	7.9	0.09	4.0

Power Magnets

- This powerful square 'horseshoe' type magnet is characterised by its ability to attract materials through wide air gaps
- The magnet is supplied with fixing holes (except 817 & 818)
- Power magnets are cast of powerful Alcomax magnetic material
- Power magnets can be used at temperatures up to 550°C
- The magnets are supplied with keepers



- Ideal for retrieval work
- Excellent for welding and soldering fixtures
- Can be used in ultrasonic testing
- Can be used within the Brewery industry
- Ideal for use as calibration magnets

Product No.	Length (mm)	Height (mm)	Width (mm)	Width of gap (mm)	Hole size (mm)	Weight (Kg)	Maximum pull (Kg)
811	30	20	20	15	4	0.06	4.5
812	40	25	25	20	5	0.12	9.0
813	45	30	30	23	5	0.18	11.8
814	57	35	40.5	27.8	2 x 7.9	0.37	23.5
815	70	41.3	57.2	34.1	2 x 7.9	0.71	37.0
816	79.4	54	82.6	38.5	2 x 9.5	1.45	47.0
817	60.3	40	62	31.75	no holes	0.80	35.0
818	79.4	54	85.7	47.6	no holes	1.80	60.0

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



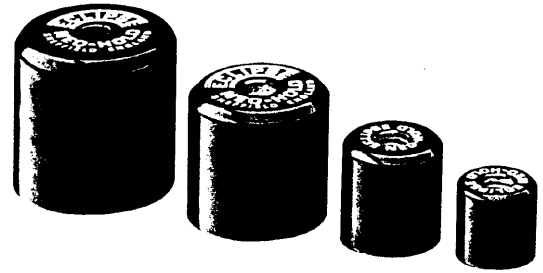
- Shallow Pot Magnets are all cylindrical permanent magnets assembled concentrically in a mild steel pot
- The pot is an essential part of the magnetic circuit as it provides a return path for the flux
- Shallow Pot magnets are cast using powerful Alcomax 4 magnetic materials
- Highly resistant to demagnetising 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

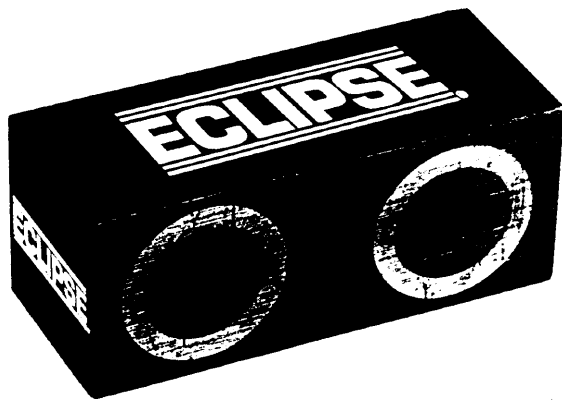
NeoHold Bipole Gripping Magnets

- 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
- Utilises powerful neodymium iron boron magnetic materials
- Maximum operating temperature 100°C
- Ideal for use where greater holding force is required
- Excellent for use where space is restricted
- Suitable for use in meters
- Ideal for use in holding and clamping applications
- Ideal for use in magnetic drives
- Suitable for use in sensor applications



Product No.	Width (mm)	Height (mm)	Weight (Kg)	Pull (max) (Kg)
NH 025	12.7	11.6	0.010	2.0
NH 065	16.0	15.6	0.018	5.0
NH 130	22.0	20.0	0.040	9.0
NH 240	25.0	25.0	0.070	15.0

Magnetic Foot



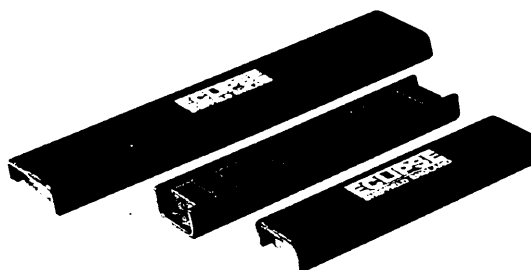
- Rectangular block comprising 2 pot type magnets set into one mild steel housing
- Magnetic Foot magnets are manufactured using powerful Alcomax III magnetic materials
- Suitable for use in drilling and tapping applications
- Ideal for jigs and fixtures
- Ideal in heat treatment applications

Product No.	Length (mm)	Width (mm)	Height (mm)	Weight (Kg)	Pull (max) (Kg)
920 SUOT	60	25	25	0.32	12

Gripping Magnets

Ferrite Channel Magnets

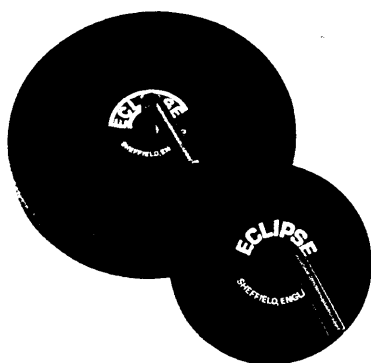
- Ferrite Channel Magnets are shallow limpet type magnets set in a mild steel shell
- Ferrite Channel Magnets are manufactured using ceramic ferrite magnetic materials
- Maximum operating temperature 80°C
- Ideal for use as bases for machine tool accessories



- 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

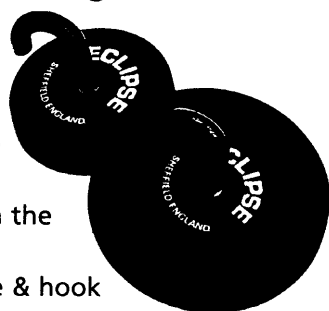


- Cylindrical magnets assembled in a mild steel pot
- Utilises ceramic ferrite magnet materials
- Magnetic poles are on the same face
- Supplied with M6 threaded hole & screw down bolt for accurate positioning and easy disengagement
- Maximum operating temperature 80°C
- Ideal for use as bases for machine 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

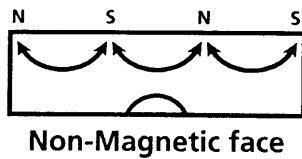


- Ideal for applications with height restrictions
- Can be used as a hook
- Ideal for use as bases for machine tool accessories
- Excellent for securing and fixturing requirements
- Can be used in industrial light fittings
- Suitable for use in microwave applications

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

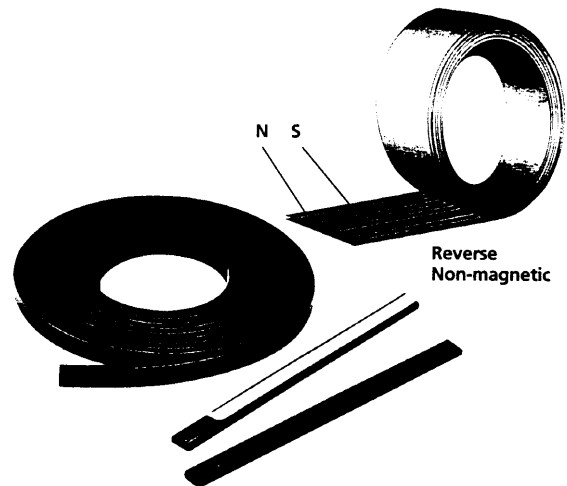


- Magnetic discs are 'magnetic drawing pins' and are permanently magnetic on one face
- Magnetic discs contain ceramic magnetic material
- Highly resistant to de-magnetisation
- Can be supplied with coloured plastic caps
- Maximum temperature 100°C
- Can be used as marker magnets
- Ideal for holding 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



Plain, Flexible Magnetic Strip

Product No.	Width (mm)	Thickness (mm)	Length (m)
FM 670	9.5	3.6	10
FM 671	11.0	4.6	10
FM 672	15.0	6.4	10
EM 880 R	9.5	3.6	0.3

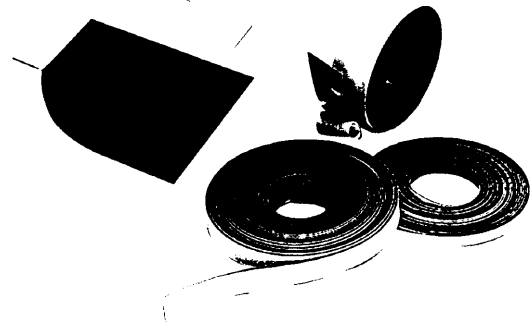
Adhesive Backed Flexible Magnets

Product No.	Width (mm)	Thickness (mm)	Length (m)
FM 660	7.5	0.75	10
FM 661	12.5	0.75	10
FM 662	20.0	0.75	10
EM 884 R	13.0	0.5	1
EM 888 R (pairs)	9.5	3.6	150 mm
FM 650	150 mm sq.	0.75	150 mm sq.

Magnets for Planning, Labelling & Display

Planner Magnets

- Flexible tiles and tapes laminated with coloured vinyls
- Flexible magnets are manufactured in ceramic materials and are magnetic on one face
- Available in white, black, red, blue, yellow and green
- Can be marked with suitable pens or transfer lettering
- Made to order: contact our sales office for details
- Ideal for planning, labelling and display applications



Product No.	Description
FM 60 (0) (white)	Gloss colours 150 mm square
FM 61 (0) (white)	Matt colours 150 mm square
FM 62 (0) (white)	5 mm wide x 10 m coil
FM 63 (0) (white)	10 mm wide x 10 m coil
FM 64 (0) (white)	20 mm wide x 10 m coil

Marker Magnets

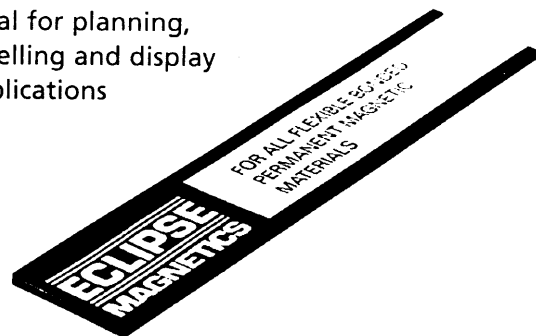


- Plastic covered magnetic disc
- Marker magnets are manufactured in ceramic material
- Supplied with high quality dome caps
- Available in white, black, red, blue, yellow and green
- Made to order: contact our sales office for details
- Ideal for use as magnetic drawing pins

Product No.	Diameter (mm)	Magnets per pack	Packs per box
RM 75 (0)	15	10	5
RM 76 (0)	20	10	5
RM 77 (0)	30	10	5
RM 78 (0)	40	5	5
One of each colour per pack:-			
RM 759-R	15	7	10
RM 779-R	30	7	10

Magnetic Label Holders

- Clear protective sleeve with white card insert
- Magnetic label holders are made with ceramic material
- Supplied in 150 mm lengths that can be cut shorter with a knife or scissors
- Can be marked with suitable pens or transfer lettering
- Made to order: contact our sales office for details
- Ideal for planning, labelling and display applications



Product No.	Width (mm)	Length (mm)	Unit of pack
FM 680	10	150	5
FM 681	20	150	5
FM 682	30	150	5