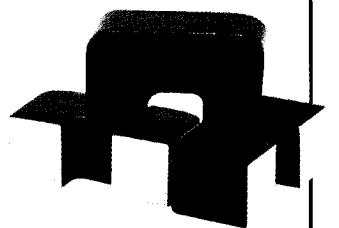
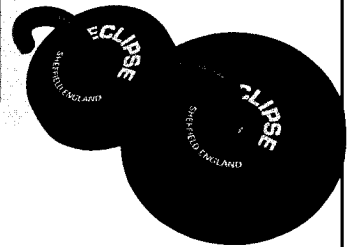
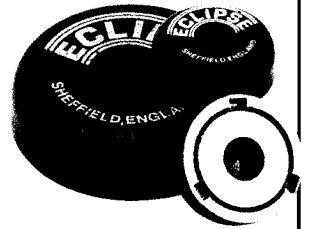
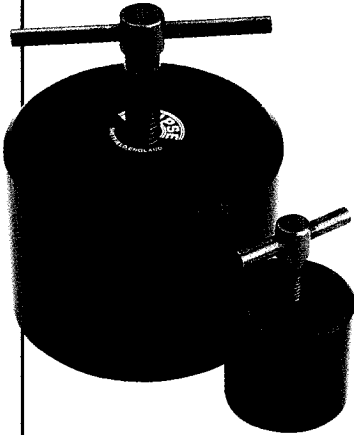
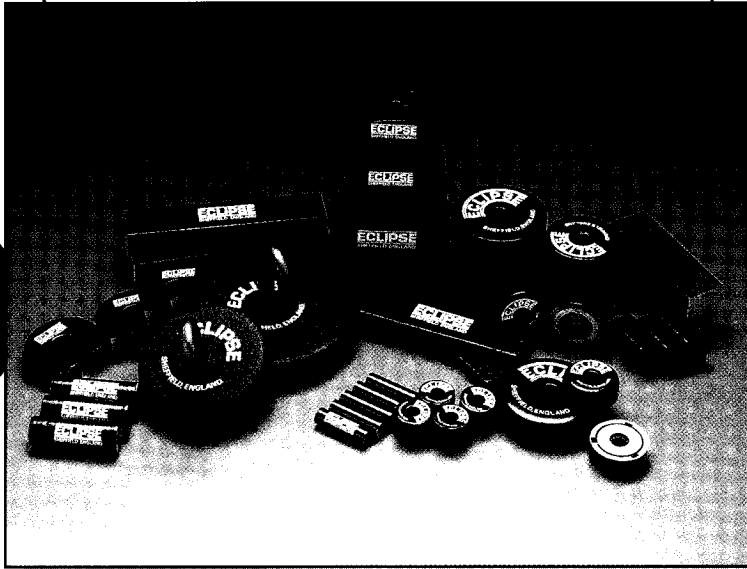
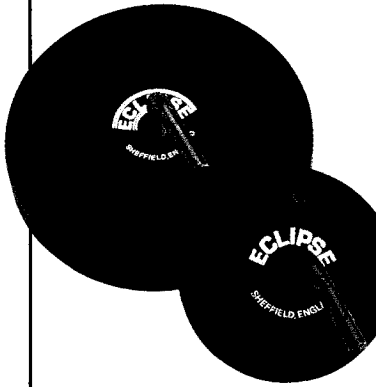
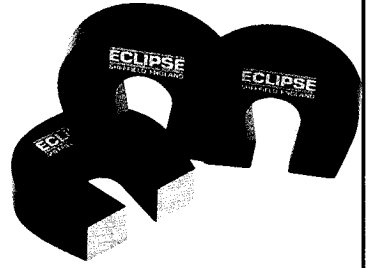
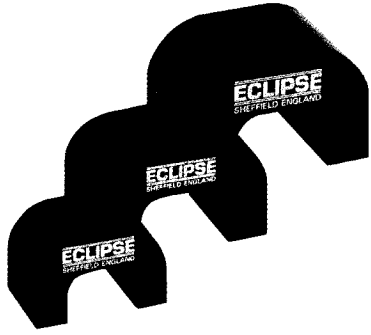


# ECLIPSE<sup>®</sup>

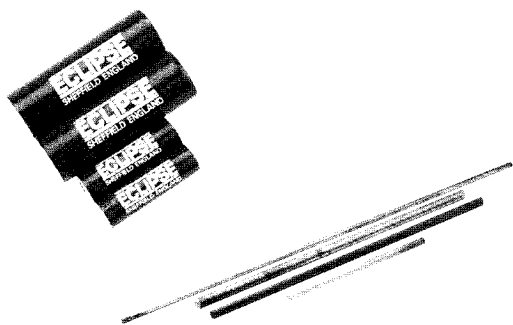
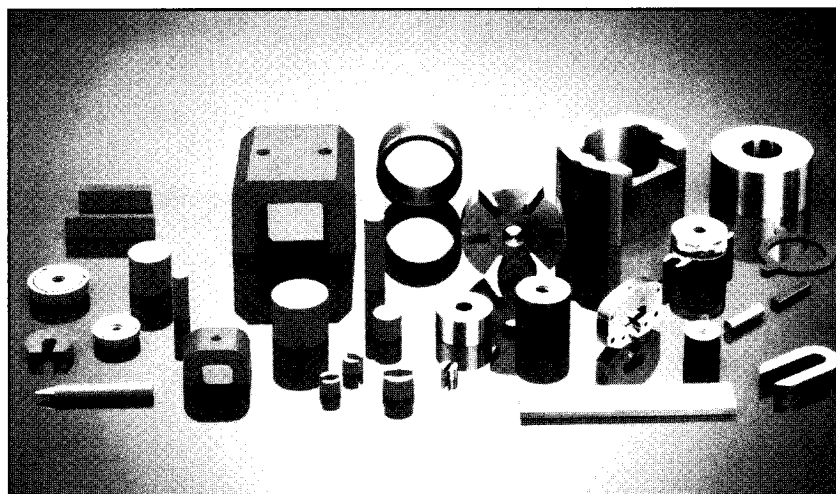
PERMANENT MAGNETS



# ECLIPSE PERMANENT MAGNETS

## Industrial Magnets

Having first started manufacturing metal magnets in 1914 **Eclipse** Magnetics remains at the forefront in supplying permanent magnets to industry. **Eclipse** Magnetics are able to offer a wide range of standard shapes in a variety of materials as well as producing magnets to customers own designs. This catalogue shows only our 'Popular Range' permanent magnets. Special bars, blocks, discs, cylinders and rings are covered by our Industrial Magnet literature. Further details are available on request from the address given at the end of this catalogue. Experienced technical personnel are always available to help resolve your magnetic problems.



## Cylindrical bar magnets

A range of one piece magnets cylindrical in shape with the two poles at opposite ends.

Catalogue No.	mm	mm	Unit of pack	Weight per pair kg
<b>E805</b>	20	6	10 pairs	0.02
<b>E806</b>	25	8	5 pairs	0.04
<b>E807</b>	30	10	5 pairs	0.07

Material: Alcomax III Supplied in pairs.

**NB Industrial Bar Magnets are available in a range of diameters from 3mm to 10mm and upto 200mm in length.**

## Rectangular bar magnets

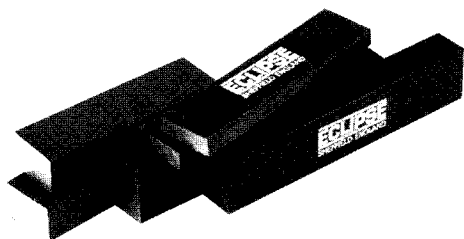
Catalogue No.	mm	mm	mm	Unit of pack	Weight per pair kg
<b>E844</b>	20	10.0	5	5 pairs	0.03
<b>E845</b>	40	12.5	5	5 pairs	0.07
<b>E846</b>	60	15.0	5	5 pairs	0.13

Material: Alcomax III Supplied in pairs.

<b>E842</b>	50	15.0	10	5 pairs	0.22
<b>E843</b>	75	15.0	10	5 pairs	0.33

Material: Alnico Supplied in pairs.

NORTH polarity is indicated by a dimple

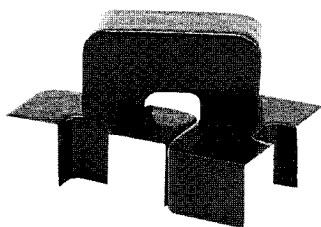


## Minor magnet

A bridge-shaped magnet of the horseshoe type.

Catalogue No.	mm	mm	mm	mm	Unit of pack	Weight each kg	Pull (max) kg
<b>E801</b>	22.2	11.1	7.9	6.4	10	0.02	1.3

Material: Alnico Supplied with keepers



## Pocket magnets

A conventional one piece horseshoe magnet with both poles in the same plane. A strong handy, permanent magnet with many uses.

Catalogue No.	mm	mm	mm	mm	Unit of pack	Weight each kg	Pull (max) kg
<b>E802</b>	22.2	25.4	7.9	6.4	10	0.03	2.4
<b>E803</b>	27.0	35.0	15.9	7.9	10	0.09	4.0

Material: Alnico Supplied with keepers



**N. B. - Max. Pull figures are typical values. These may be achieved with smooth, mild steel, workpieces of adequate thickness where contact faces are intimate and clean.**

# ECLIPSE



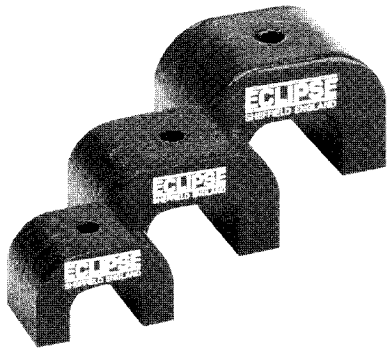
## Button magnets

A cylindrical magnet of the 'horseshoe' type. Both poles are at one end of the cylinder, separated by a slot. These magnets are primarily for attracting applications. Supplied with a plain fixing hole.

Catalogue No.	Diagram		Slot		Hole	Unit of pack	Weight each kg	Pull (max) kg
	mm	mm	mm	mm	mm			
<b>E821</b>	12.5	9.5	4.0	7.2	4.5	10	0.006	0.7
<b>E822</b>	19.1	12.7	5.6	8.7	4.8	10	0.020	1.9
<b>E823</b>	25.4	15.9	5.6	8.7	4.8	10	0.050	3.4
<b>E824</b>	31.8	25.4	8.0	12.7	7.1	5	0.113	4.8
<b>E825</b>	22.2	19.1	6.4		4.8	10	0.050	3.0

Material: Alnico

Supplied with keepers. Max. temp: 550°C



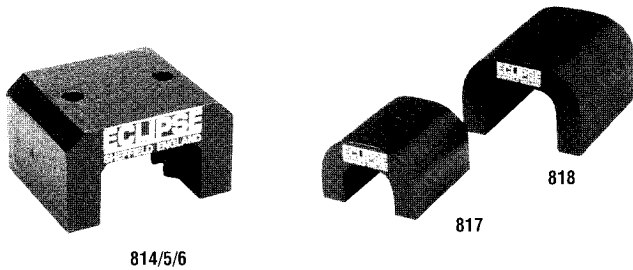
## Power magnets

A square horseshoe magnet characterised by their powerful attracting abilities. Supplied with plain fixing holes for simplicity of jig manufacture e.g. painting jigs.

Catalogue No.	Diagram					Unit of pack	Weight each kg	Pull (max) kg
	mm	mm	mm	mm	mm			
<b>811</b>	30	20	20	15	4	5	0.06	4.5
<b>812</b>	40	25	25	20	5	5	0.12	9.0
<b>813</b>	45	30	30	23	5	5	0.18	11.8

Material: Alcomax II

Supplied with keepers. Max. temp: 550°C

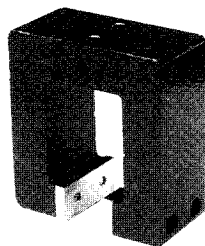


## Power magnets

Catalogue No.	Diagram					Unit of pack	Weight each kg	Pull (max) kg
	mm	mm	mm	mm	mm			
<b>814</b>	57.0	35.0	40.5	27.80	2x7.9	1	0.37	23.5
<b>815</b>	70.0	41.3	57.2	34.10	2x7.9	1	0.71	37.0
<b>816</b>	79.4	54.0	82.6	38.50	2x9.5	1	1.45	47.0
<b>817</b>	60.3	40.0	62.0	31.75	1x6.5	1	0.80	35.0
<b>818</b>	79.4	54.0	85.7	47.60	No Holes	1	1.80	60.0

Material: Alcomax III

Supplied with keepers. Max. temp: 550°C

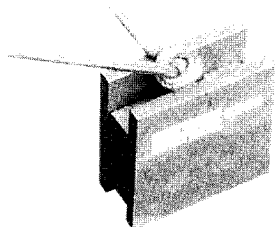


## Major magnet

The major magnet provides the highest practicable field strength in its large gap. This makes it suitable for numerous instrument and industrial applications such as wave guidance. It can also be used for magnetising small bar magnets.

Catalogue No.	Height mm	Width mm	Thickness mm	Unit of pack	Weight each kg	Flux Density at gap centre
<b>862</b>	111	103.5	50	1	2.9	0.210 wb/m <sup>2</sup>

Material: Alcomax III and mild steel.

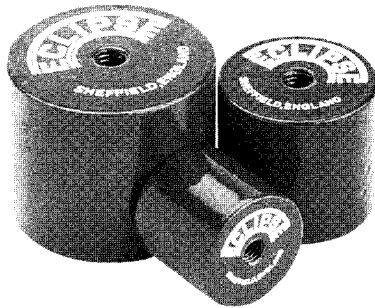


## Recovery magnet

A magnet designed for recovery work in all types of applications. Constructed in steel and ferrite this magnet can exert a pull of 50kg (in ideal circumstances).



Catalogue No.	Height mm	Width mm	Thickness mm	Unit of pack	Weight each kg	Pull (max) kg
<b>E936</b>	101.5	82.5	36	1	1.4	50

# ECLIPSE PERMANENT MAGNETS

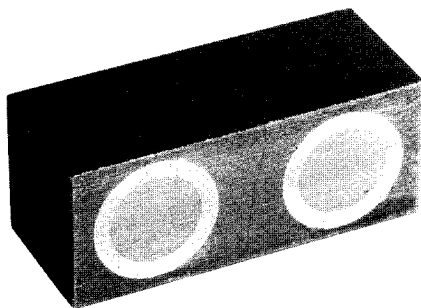


## Pot magnets

A deep cylindrical permanent magnet assembled concentrically in a steel pot. These magnets are primarily for gripping applications.

Catalogue No.			Standard	Unit of pack	Weight	Pull
					each	(max)
	mm	mm			kg	kg
<b>829</b>	9.5	15.1	M3	10	0.005	1.00
<b>830</b>	12.7	15.9	M4	10	0.015	2.00
<b>831</b>	17.5	16.0	M6	10	0.023	2.65
<b>832</b>	20.5	19.0	M6	10	0.040	4.00
<b>833</b>	27.0	25.0	M6	5	0.085	6.10
<b>834</b>	35.0	30.0	M6	5	0.184	14.75

Material: Magnet - Alcomax III; Pot - mild steel; Spacer - Aluminium.  
Keeper with each magnet. North polarity in centre. (Max. temp: 220°C).

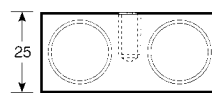
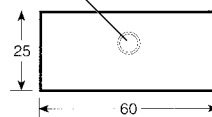


## Magnetic Foot

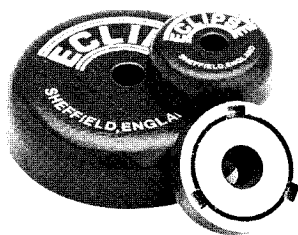
A rectangular block comprising two pot type magnets set into one mild steel housing. Primarily used for gripping applications. Materials etc as above.

Catalogue No.	Length	Width	Height	Thread	Unit of pack	Weight	Pull
						each	(max)
	mm	mm				kg	kg
<b>920 SUOT</b>	60	25	25	M6	1	0.32	12

M6 Thread





Mild steel case is suitable for drilling and tapping, in most locations, to suit jigs and fixtures. (Max. temp: 220°C)

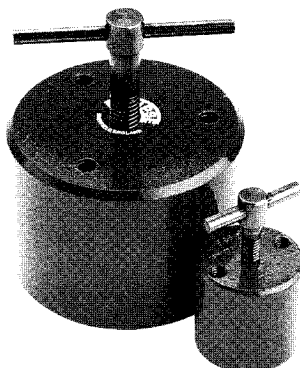


## Shallow pot magnets

Designed for applications where height is too restricted for conventional deep pot magnets.

Catalogue No.			mm	mm	Unit of pack	Weight	Pull
						each	(max)
	mm	mm				kg	kg
<b>826</b>	19.1	7.75	3.7	6.7	10	0.013	3.0
<b>827</b>	28.6	8.70	4.8	8.6	10	0.036	5.0
<b>828</b>	38.1	10.60	4.8	8.6	5	0.080	13.0

Materials: Magnet - Alcomax IV; Pot - mild steel.  
Keeper with each magnet. North polarity in centre. (Max. temp: 220°C)



## Magnetic holdfasts

A range of pot magnets for work-holding and work-handling where positive grip is required but not attraction from a distance. Because of their exceptionally strong grip, each holdfast is equipped with a screw down releasing handle, which also doubles as a carrying handle. Can be used singly, or together to make welding and other assembly jigs.

Catalogue No.	Diameter	Body height	Fixing hole centres	No. of holes	Unit of pack	Weight	Pull
						each	(max)
	mm	mm	mm			kg	kg
<b>E939</b>	44.5	44.5	31.8	2	1	0.55	20
<b>E940</b>	54.0	50.8	38.1	2	1	0.95	40
<b>E941</b>	69.9	63.5	50.8	2	1	1.95	88
<b>E942</b>	103.0	74.6	69.1	3	1	4.70	183
			PCD				
<b>E938</b>	Side of cube 95.3		80.3	8 (4 on 2 faces)	1	7.50	214
			PCD				

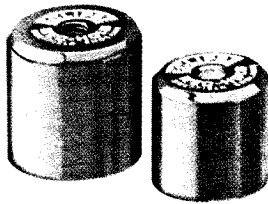
Holes tapped M8 x 1.25 mm pitch except Catalogue Nos. E942 and E938 which have drilled and untapped 8.4 mm dia holes. (Max. temp: 220°C)

**N. B. - Max. Pull figures are typical values. These may be achieved with smooth, mild steel, workpieces of adequate thickness where contact faces are intimate and clean.**

# ECLIPSE NEO-HOLD

## GRIPPING MAGNETS

A New range of HIGH POWER gripping magnets using Neodymium Iron Boron (Nd Fe B) Rare Earth Magnets. Very strong gripping forces are achieved by having 2 poles close together on one face (Bi-pole). Because of their high magnetic strength, the NEO-HOLD range provides equal or greater holding power than pot or button magnets, from a smaller size magnet. This makes them ideal in situations where space is restricted and more holding power required. Maximum operating temperature is 100°C.



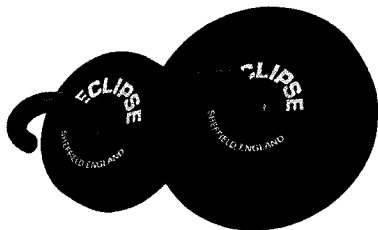
### Neo-Hold Bi-pole Gripping Magnets

Catalogue No.				Fixing hole sizes	Unit of pack	Weight each	Pull (max)
	mm	mm	mm			kg	kg
NH 025	12.7	11.6	5.5	M5 x 5	10	0.010	2.0
NH 065	16.0	15.6	5.5	M6 x 5	10	0.018	5.0
NH 130	22.0	20.0	5.5	M6 x 6	5	0.040	9.0
NH 240	25.0	25.0	5.5	M6 x 6	5	0.070	15.0

# ECLIPSE FERRITE

## GRIPPING MAGNETS

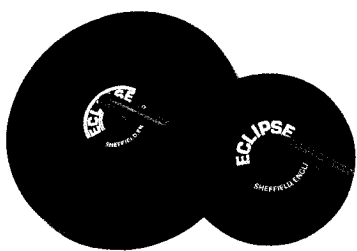
A range of shallow, limpet type, gripping magnets using ceramic ferrite magnet material set in mild steel shells. Magnetic field depths are in-between those of cast alloy POT magnets and POWER magnets. Ideal for use as 'bases' to machine tool accessories and industrial light fittings, where temperature's do not exceed a maximum of 80°C.



### Ferrite Shallow pot

A wide and shallow magnet - ideal for limpet type gripping applications. Manufactured with standard M6 thread for building into jigs and fixtures, fitted with a J bolt.

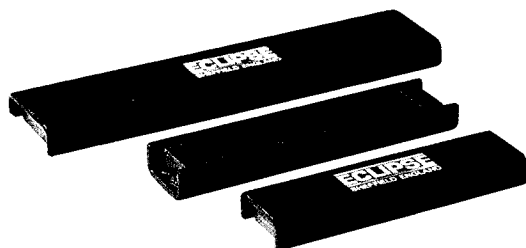
Catalogue No.				Unit of pack	Weight each	Pull (max)
	mm	mm	mm		kg	kg
E890	46	10.7	M6	5	0.09	6
E891	56	10.7	M6	5	0.13	16
E892	66	10.7	M6	5	0.19	25



### Ferrite Shallow holdfasts

Manufactured with three pre-threaded holes with standard M6 thread. Fitted with a screw down releasing bolt for easy disengagement of workpieces.

Catalogue No.			Fixing stud centres	No. of holes	Standard	Unit of pack	Weight each	Pull (max)
	mm	mm	mm				kg	kg
E895	66	10.7	46	3	M6	1	0.27	25
E896	76	12.5	46	3	M6	1	0.30	33
E897	100	15.0	63	3	M6	1	0.61	55



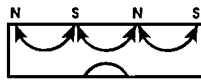
### Ferrite Channel magnets

Catalogue No.	Length	Width	Height	Plain fixing holes	Standard	Unit of pack	Weight each	Pull (max)
	mm	mm	mm	mm			kg	kg
E898/1	115	30	13	4.2	Diam.	5	0.20	8
E898/2	130	30	13	4.2	Diam.	5	0.25	14
E899	190	43	13	4.2	Diam.	2	0.50	48

# ECLIPSE

## CERAMIC AND FLEXIBLE FERRITE MAGNETS

Multipole on one face



Non-Magnetic face



**Magnetic Discs** -One magnetic face - reverse will accept adhesive.  
Not susceptible to demagnetisation upto a maximum temperature of 180°C

Catalogue No.	Diameter mm	Thickness mm	Magnets per pack	Packs per box
CM 700-R	14	5	10	10
CM 701-R	20	5	10	10
CM 702-R	30	5	10	10

### Flexible magnets

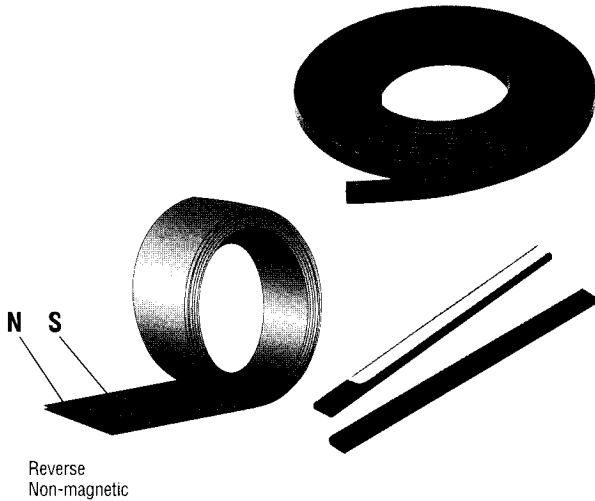
Magnetic strip and tape is a flexible extrusion of Barium Ferrite. It can be cut or drilled and secured easily with adhesive. These magnets are ideal for door closures and sign/note holding. The 'soft' material also helps in preventing slippage on vertical surfaces.

### Plain, Flexible magnetic strip

Catalogue No.	Width mm	Thickness mm	Length m	Unit of pack
FM 670	9.5	3.6	10	1 coil
FM 671	11.0	4.6	10	1 coil
FM 672	15.0	6.4	10	1 coil
EM 880-R	9.5	3.6	2	5 coils

### Adhesive backed flexible magnets

Catalogue No	Width mm	Thickness mm	Length m	Unit of pack
FM 660	7.5	0.75	10	1 coil
FM 661	12.5	0.75	10	1 coil
FM 662	20.0	0.75	10	1 coil
EM 884-R	13.0	0.5	1	5 coils
EM 888-R (pairs)	9.5	3.6	150 mm	5 pairs
FM 650	150 mm sq	0.75	150 mm sq	5 squares



Reverse  
Non-magnetic

# ECLIPSE

## MAGNETS FOR PLANNING, LABELLING AND DISPLAY

Coloured Flexible and Ceramic Magnets - all magnetic on one face, coloured faces can be marked with suitable pens or transfer lettering.

Available in: White, Black, Red, Blue, Yellow, Green.

Please Note. These products are made to order Please contact our Sales office for further details.

### Planner magnets

Flexible Tiles and Tapes- laminated with coloured vinyls available in the following sizes.

Description

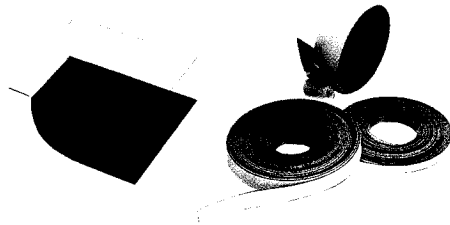
Gloss colours 150 mm square

Matt colours 150 mm square

5 mm wide x 10 m coil

10 mm wide x 10 m coil

20 mm wide x 10 m coil



Available in: White, Black, Red, Blue, Yellow, Green.

Please Note. These products are made to order Please contact our Sales office for further details.

### Marker magnets - Now with high quality dome caps

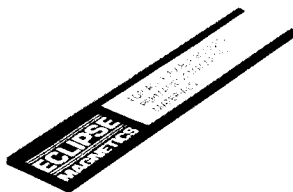
Plastic covered magnetic discs - 'magnetic drawing pins' available in the following sizes.  
15, 20, 30 and 40mm Diameter



### Magnetic label holders

With white card insert and clear protective sleeve- can be cut shorter with a knife or scissors.

Catalogue No.	Width mm	Length mm	Unit of pack
FM 680	10	150	10
FM 681	20	150	10
FM 682	30	150	10



Distributor:-



**ECLIPSE  
MAGNETICS**

A James Neill Group Company

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e-mail: sales@eclipse-magnetics.co.uk