

# Datasheet

Alnico  
Power



**ECLIPSE**  
MAGNETICS

The world renowned  
**HERITAGE**  
range

## At A Glance

- ✓ High temperature clamping
- ✓ Larger bridge-shaped horseshoe
- ✓ Versions with mounting holes
- ✓ Up to 550 deg C temperature ability
- ✓ Up to 60kg Pull Force capability

The Alnico Power magnet is a popular high temperature clamping magnet. It is a larger bridge-shaped version of a power horseshoe magnet, sometimes referred to as an Alnico bridge power magnet.

Each Alnico Power Magnet is supplied with a keeper plate for secure storage when not in use. Simply remove the keeper plate to start utilising the magnetism from this alnico magnet.

The Alnico Power Magnet is part of the Eclipse Magnetics Heritage range, highlighted by its "Eclipse Magnetic Red" branding. The Alnico Power Magnet is a larger bridge-shaped version of the alnico horseshoe magnet that provides higher clamping forces, sometimes known as an alnico power bridge magnet.

The Alnico Power Magnet has a pull force capability rating of up to 60kg or 132lb. The pull force varies with the ferrous material being held - the actual pull force achieved is application specific.

The Alnico Power Magnet is powder coated in our world-famous "Eclipse Magnetic Red". It is supplied with a keeper plate to safely store it while not in use. Typical applications include welding and soldering fixtures, retrieval, ultrasonic testing /crack detection and general attracting, holding or clamping of ferrous parts.

The alnico magnetic material is capable of being used at temperatures up to 550°C (1022°F). But please note that the red coating may show signs of thermal damage above 200°C (392°F).

## Benefits

- Up to 550 degrees C rating for the alnico material
- Powerful horseshoe themed bridge magnet
- Eclipse Magnetic Red colour - over 100 years of magnet supply Heritage
- Keeper plate supplied for safe storage when not being used
- Up to 60kg (132lb) holding force

## Performance

Magnetic Performance	Up to 60kg (132lb) pull force - see next page
Magnet Type	Alnico Power / bridge / horseshoe magnet

## Suitability

Suitable Products	Ferrous surfaces
Suitable Location	Example - welding/soldering fixtures, ultrasonic crack detection, holding/clamping, retrieval, etc

## Materials

Magnetic Material	Alnico (AlNiCo)
Other Parts	Plated Mild Steel keeper plate

## Maintenance

- There is no specific requirement to regularly inspect this item
- Do not exceed 550°C (1022°F) - product could be permanently damaged
- Easy cleaning of surfaces can be achieved using a cloth

## Alternatives

- Alnico Buttons
- Alnico Pockets
- Alnico Cylindrical Bars
- Alnico Minor
- Alnico Rectangular Bars

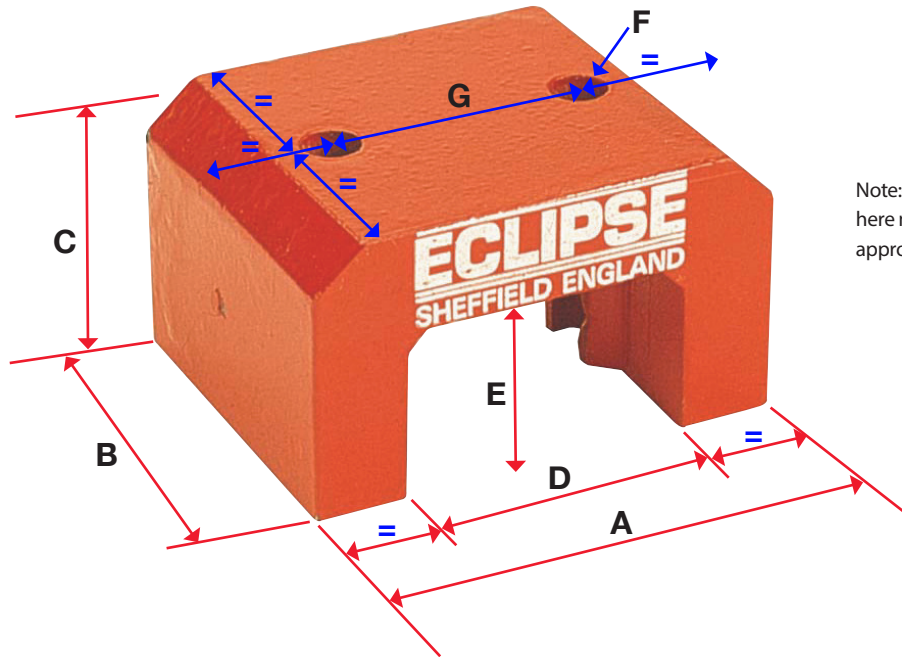


## Alnico Range

**Eclipse Magnetics** Work Smart with Magnets

Atlas Way, Atlas North, Sheffield, S4 7QQ, England ☎ +44 (0)114 225 0600 📠 +44 (0)114 225 0610 ✉ info@eclipsemagnetics.com 🌐 www.eclipsemagnetics.com





Note:- The symbol “=” shown here means the values should be approximately equal (i.e. symmetrical).

Product Number	Dimensions (mm)								Weight (g)	Pull Force* (kg)	Units per Pack
	Length A	Width B	Height C	Gap Width D	Gap Height E	Number of Fixing Holes	Fixing Hole Diameter F	Fixing Hole Centres G			
811	30	20	20	~15	~11.0	1 (central)	5	n/a	60	4.5	1
812	40	25	25	~20	~13.5	1 (central)	5	n/a	120	9.0	1
813	45	30	30	~23	~17.0	1 (central)	5	n/a	180	11.8	1
814	57	44.5	35	~27.8	~23.0	2 off	7.9 (each)	~31.75	370	23.5	1
815	70	57.2	41.3	~34.1	~26.19	2 off	7.9 (each)	~38.10	710	37	1
816	79.4	82.6	54	~38.1	~36.5	2 off	9.5 (each)	~42.86	1450	47	1
817	60.3	62	39.7	~31.75	~25.4	0	n/a	n/a	800	35	1
818	79.1	85.7	54	~47.6	~38.1	0	n/a	n/a	1800	60	1

\* The Pull Force is rated using high quality thick mild steel plate. The actual performance is application specific - thinner material, less magnetic material, air gaps, and elevated temperatures, etc can all reduce the magnetic performance.

For further assistance, please contact [sales@eclipsemagnetics.com](mailto:sales@eclipsemagnetics.com)

Although we have made every attempt to provide accurate information, we do reserve the right to change any of the information in this document without notice.

We cannot accept any responsibility or liability for any errors or problems caused by using any of the information provided.

#### Conversions Guide:-

1kg ≈ 2.204lb ≈ 9.806N

1lb ≈ 0.453kg ≈ 4.448N

1N ≈ 0.101kg ≈ 0.224lb

10mm ≈ 0.393in (≈ 25/64in)

1in ≈ 25.4mm

(the above conversion values are rounded down)



FM 31278 EMS 616377