Customised Magnetic Solutions

High performance magnet materials and assemblies for specific customer applications

A world leader in magnetic technology
Eclipse Magnetics
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With 100 years' experience in the design and manufacture of high performance magnetic systems, we supply critical equipment to some of the leading names in the most demanding industries. Our magnetic technology is widely used at leading worldwide companies and in major development projects, all requiring a guarantee of equipment performance.

Worldwide Support
We offer worldwide support through our offices in the UK, Canada and China. We also have numerous employees in various territories and a network of technically trained partners to provide local product support.

We have a proven track record in supplying some of the leading names in the following industries:
- Automotive
- Aerospace
- Environmental
- Petrochemical
- Energy
- Industrial
- Medical
- Precision engineering

Our client base is testament to our quality:-
- Ford
- TATA
- Denso
- BMW
- Delphi
- Honda
- NSK
- Cargill
- BAE Systems
- Toyota
- JCB
- Warburtons
- Yamaha
- Bosch
- Bombardier
- Caterpillar

Wide range of products
Our product lines encompass every possible magnetic scenario from the supply of standard pot magnets to high value engineered magnetic systems for automotive manufacture.

A wide range of magnet materials and components
We supply a diverse range of magnetic materials and magnetic assemblies to suit different application requirements and operating conditions. Each magnet type is available in different grades, shapes and sizes with a comprehensive range of protective coating options. Our products include:
- Neodymium, NdFeB
- Ferrite/ Ceramic
- Samarium Cobalt, SmCo
- Alnico
- Electromagnets and Electropermanent magnets
- Compression bonded & Injection molded (plastic magnets)
- FeCrCo
- Flexible
- Soft ferrites
- Powdered Irons
- Magnetic assemblies

Customised magnetic solutions from stage 1 to project completion
Many businesses are looking for ways to improve efficiency both in the supply chain and in production at the workplace. With our facilities and expertise we can tackle the most challenging of bespoke applications. We work closely with customers to understand their application to then design, develop and produce a customised magnetic assembly within budget and within timescale.

We even have 3D FEA capability to design and test your product before you buy it to get optimum performance.
Our in house services include:

**Application consultation**
Our team can visit your site to understand your application and give you advice and assistance. You can also visit our design facility. We can work under NDA (Confidentiality Agreement). If you do not understand magnets we will give you all the information you require to understand our products and how they will work in your application so you can make informed decisions.

**Design, prototyping, and validation**
Using the latest CAD and FEA software our design team creates 3D designs. We can then produce trial prototypes of these designs. PPAP is available for samples and production runs.

**Magnet fabrication**
We custom manufacture all magnetic materials and grades, to precise customer specifications to varying size, shape and coating finish. Technical datasheets are available upon request.

**Magnetic stabilization**
For applications where consistent performance is critical we can ensure magnet flux values are stabilized.

**Magnetic performance testing**
We test our magnets for performance. We have permeameters to measure Br, Hc, Hci and BHmax. We also have HAST, PCT and Salt Spray testing. Surface roughness, surface hardness, run out and glue strength can all be tested.

**Assemblies**
Small or large, a few to millions - we manufacture custom assemblies to meet customer specifications. We also have design and FEA capability to ensure the product meets your expectations.

**Sampling**
We can provide samples for testing. We also have a range of production quality stock magnets available for testing, easily purchased from our online shop. www.magnets2buy.com

**Machining facilities**
Micron accurate internal and external grinding facilities ensure that customised magnets are produced to high specifications.

**Rotor balancing**
Ensures total concentricity for rotating magnet applications.

**Facilities**
Our joint venture site in China houses our state of the art production and assembly facilities. From here we are able to ensure the highest quality standards whilst offering a cost effective solution. Our technical, engineering and sales departments are located at modern facilities in Sheffield, UK. We also have a worldwide sales and service network to provide technical advice and support.

Be assured that from project inception to completion our technical knowledge, engineering expertise, market experience and state-of-the-art production facilities in both the UK and the Far East will provide you with a seamless process and the desired end result.

**Quality**
We invest in stringent quality control procedures and have full ISO 9001 accreditation. We are also one of the few companies worldwide to have ATEX type approval status.

We can supply magnets to ISO/TS 16949 with PPAP for automotive customers.

Our magnets are also REACH and RoHS compliant.
Other Eclipse Magnetics products

### Material handling and workholding
Extensive range of products that improve safety and increase efficiency when lifting, holding, moving or clamping ferrous materials, workpieces, tools and components.

### Magnet workshop equipment
We supply welding clamps, precision stands and a wide range of other magnetic products to provide a helping hand in the workshop, factory, garage, office and home.

### Magnetic filtration
Eclipse Magnetics magnetic filters remove sub-micron contamination from industrial fluids such as coolants, lubricants and fuels. Fluids remain effective for longer and waste is massively reduced compared to traditional filtration methods.

### Contamination removal
We supply a full range of products and services to protect all types of product and process line, including food, chemical and pharmaceutical products.

### Heating system protection
The BoilerMag range of filters removes black iron oxide from heating systems, improving efficiency, reducing CO2 emission and protecting boilers from the damage that black iron oxide can cause.

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**About Us**
As part of The James Neill Steel Company (founded 1889) Eclipse first began producing magnets in 1914. In the 1930s Eclipse produced the first mechanically switchable permanent magnetic chuck. This technology is still used, in its modern form, in 99% of all grinding machines. Today, Eclipse Magnetics is part of the world renowned Spear and Jackson Group of companies. It manufactures over 20,000 different products. These include magnets, magnet assemblies, magnet sub-assemblies, magnetic tools, magnetic chucks, magnetic separators, magnetic filters and custom engineered magnetic handling units.

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**Technical Queries**
If you have a technical magnetic problem or a design you would like to use magnets with, please contact us. We design magnets and magnet systems to meet customer requirements (under NDA if required). Our technical team can visit your site to discuss projects.

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**Request for Quotation**
If you know what you want and require prices with lead times then please send your RFQ (request for quotation) to sales@eclipsemagnetics.com. Having a joint venture with China means our prices will be genuinely competitive. Call off purchase orders are possible. PPAP is also possible. Our quotations state realistic lead times. If you are unsure of the magnet details we can help you clarify the specification.

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**Samples**
If you require samples we suggest you first visit www.magnets2buy.com. Our online magnets are of full production quality. If the samples work and you require much higher quantities then simply contact us for a quotation. Sample magnets and high volume production run magnets will be the same. If you cannot find the samples you require online, let us know the details of what you are looking for and we will assist.

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www.eclipsemagnetics.com

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