



# **Magnetic Welding Aids**

For fast and accurate welding, fabrication and assembly





# **Eclipse Magnetics**

Over 100 Years of Manufacturing Excellence



# Serving some of the leading names in industrial distribution

- CPC
- RS Components
- Cromwell
- Brammer
- Hoffman
- MSC
- Monks and Crane
- Buck and Hickman
- THS
- Troy

### Adding Value to Your Portfolio

With over 100 years' experience in the design and manufacture of high performance magnetics, we supply critical components to some of the leading names in the most demanding industries. From large automation and security projects to routine workshop applications, the end user can rest assured that Eclipse is definitely a brand to trust for quality and service.

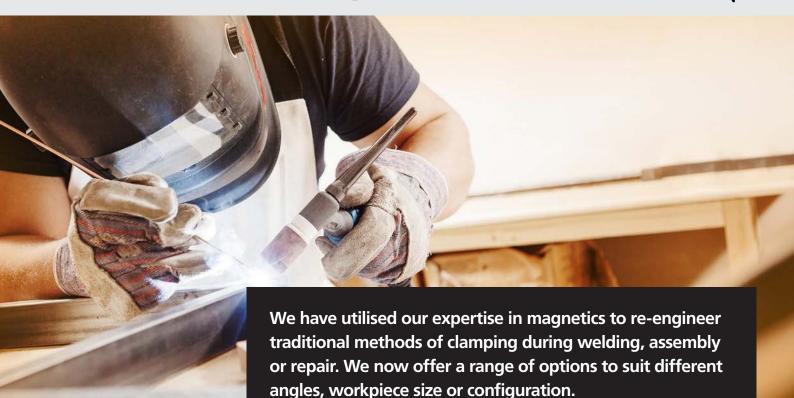
In addition, distributors or stockists can enjoy the benefits of a prestigious range which adds financial and brand value to your portfolio.

### **Designing Excellence**

We have a track record of producing high quality products backed by a commitment to total customer service. All manufacturing is carried out under an ISO9001 certified quality management system and we are accredited to ISO14001 environmental standards.



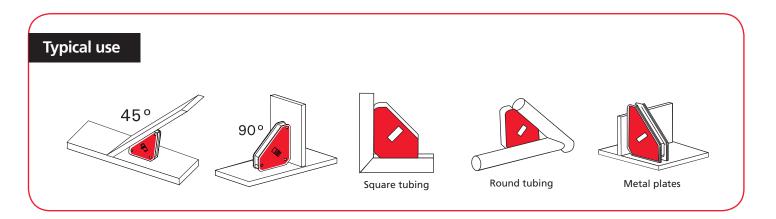
# The fast, safe, efficient way to hold safe workpieces



Applying magnetics to welding aid design improves efficiency, productivity and ultimately profitability, delivering key benefits:-

- Speed & Simplicity easy, fast set-up , no manual clamping or mounting holes. Switchable style ensures easy precise adjustment
- Safe high strength magnets ensure secure clamping
- Versatile some models suitable for different angles and material configuration
- Access minimal surface contact ensure maximum access to the workpiece
- **Durability** permanent magnets require no maintenance, simple wipe down cleaning







## Switchable Magnetic Welding Aids



### **Quick Holding Clamp Switchable**

- Features ON/OFF switches.
- The fast & easy way to hold metal workpieces at 45°, 90°
- Turn the magnet OFF or at the **midpoint** position when setting up, turn On when you're ready to work.
- Fast and safe set-up!
- Ideal for round and square tubing, angle, and flat stock
- Simple wipe clean design



Product Number	Angles	Dimensions mm	Weight <sup>kg</sup>	Pull Force* kg
QHCSS	45°, 90°	111 x 95 x 29	0.7	40
QHCSL	45°, 90°	152 x 130 x 35	1.4	75

\* Magnetic force is based on the longest side of magnet with 10mm thick steel.







NOTE: Must be used for tack welding only and removed before completing weld. Avoid prolonged exposure of magnetic products to heat sources of 356°F / 180°

For professional jobs that demand strong hold down forces. Holds flat and round metal work pieces.



### 90° Fixed Welding Clamps Switchable

- Convenience of ON/OFF switches
- Two ON/OFF switches for independent operation
- Easy and safe set-up!
- Machined flat and V-surfaces are ideal for round and square tubing, angle, and flat stock
- Heavy Duty Construction



	ALLE
,	
	NEW for 2019
	Tor 2019

Product Number	Angles	<b>Dimensions</b> mm	Weight <sup>kg</sup>	Pull Force* kg
FWCSS	90°	152 x 152 x 38	1.2	55
FWCSL	90°	197 x 197 x 48	2.7	120

\*Magnetic force is based on 10 mm thick steel.

### Inside and Outside Welding Clamps

- Hold and position sheet metal, round pipes, square, angled or flat stock.
- The Inside and Outside Welding Clamps are constructed from two independent rectangular magnets for consistent, undiminished magnetic force when both sides are attached to workpieces.
- Use mounting holes to link two magnets together for use as fixturing elements.
- Use hex hole on magnet for breakaway leverage.



Product Number	Angles	Height mm	Width mm	Thickness <sup>mm</sup>	Weight <sup>kg</sup>	<b>Pull Force</b> kg
IOWCC*	30°, 60°, 90°	75.5	52	14		9
	30°, 60°, 90°	125	85	18		15
IOWCL	30°, 60°, 90°	165	110	20	0.8	18

\* Pack includes 2 clamps

**NOTE:** Must be used for tack welding only and removed before completing weld. Avoid prolonged exposure of magnetic products to heat sources of 356°F / 180°







Pull

Force

kα

In addition to our featured products. We offer a range of welding aids for various applications.

Product

Number

Product

### Variable Welding Clamp

- Fast accurate holding of ferrous sheets and tubes for welding and assembly work
- Variable from 25° to 280°

### Heavy Duty Variable Welding Clamp

- Clamps components during welding, fabrication and assembly
- Powerful 40kg clamping force, enables larger components to be clamped with ease



E952	25°, 280°	195	200	11	0.49	20	

Length

mm

Angles

Product Number	Angles	Length mm	Height mm	Width mm	Weight <sup>kg</sup>	Pull Force kg
E974	45°, 90°	140	140	35	1.40	40

Height

mm

Width

mm

Weight

kg

### 90° Fixed Welding Clamps

- Two magnetic faces in a rigid 90° angle for jigging on sheets, pipes and tubes
- A fast and cost effective means of clamping components rigid at 90° angles during fabrication, assembly and weld preparation applications

### **Heavy Duty Welding Clamps**

- Holds workpieces at an exact 45° or 90° angle to each other
- 10kg and 15kg of magnetic pull make these ideal for a range of workshop welding and applications

Number	Angles	mm	mm	mm	kg	kg
E971	90°	140	140	35	1.40	40
E972	90°	225	225	22	2.20	75
E973	90°	300	300	35	4.70	200

Height

Width

Weight

**Pull Force** 

Length

Product	Angles	Depth	Height	Width	Weight	Pull Force
Number	,	mm	mm	mm	kg	kg
E954	45°, 90°	14	82	120	0.3	10
E955	45°, 90°	18	102	160	0.7	15

### **Quick Holding Clamps**

- Fast and accurate holding of ferrous metals at different fixed angles
- Also suitable for retrieval applications



Product Number	Angles	Length mm	Height mm	Width mm	Weight <sub>kg</sub>	Pull Force kg
E951	30°, 45°, 60°, 75°, 90°	100.5	65.5	12	0.3	10
E953	30°, 45°, 60°, 75°, 90°	100.5	65.5	20	0.4	15

### **Mitre Clamps**

• Effective and inexpensive method of clamping flat (923) or round (924 ferrous components



Product Number	Angles	Length Base Face	Length Top Face	Height <sup>mm</sup>	Width mm	Weight <sub>kg</sub>	Pull Force kg
923	45°, 90°	156	66	45	43	1.36	100
924	45°, 90°	184	94	45	43	1.64	68



6





Pull

Force

kg

12

Pull

Force

kg

20

40

88

183

Weight

kg

0.6

1.0

2.0

4.7

### **Positioners**

- 2 magnetic blocks connected by 2 non magnetic steel straps
- The blocks contain ferrite magnetic material
- Magnetic on 2 faces ٠

**Adjustable Links** • Ferrite magnetic material

• ON / OFF switch coated at each end

• Clamp components at any angle for welding and assembly applications



Product Number	Length mm	Height <sup>mm</sup>	Width mm	Weight <sup>kg</sup>	Pull On Flat Face kg	Pull On V Face kg
922	206	63.5	76	3.17	80	80
922SU	63.5	63.5	51	1.48	80	80



Product Number	Length mm	Height mm	Width mm	Weight kg	Pull Force kg
920SU (Single)	60	25	29	0.35	12
920 (Pair)	127	25	51	0.70	12

Length

mm

60

### **Adjustable Clamping** Links

- Alnico magnetic material
- Clamp components at any angle for welding and assembly applications

### **Earth Welding Clamp**

- Quick and easy earthing for most steel welding operations
- Provides earthing / ground on large welding operations where croc-clip or G-Clamps cannot be easily used

### **Holdfasts**

- Supplied with screw release handle
- Can be built into workholding, handling and assembly fixtures to provide a high clamping force and positive grip

### Weld Holder

• Provides the welder with a powerful, rigid support on flat and round components at various angles during welding preparation applications



-	Pro Nu
	E94

Product

Number

920SUOT (Original Single)

					Pull	Maximur	n
92001PR (Origin	al Pair)	127	25	48	0.	./0 12	

Height

mm

25

Width

mm

25

Weight

kg

0.32

Holes

mm

2 x M8

2 x M8

2 x M8

3 n/a

	oduct ımber	Width mm	Height <sup>mm</sup>	Length mm	<b>Weight</b> kg	Pull Force kg	Maximum Current amps
E9	46	90	64	193	1.6	25	800

1	Product Number	Diameter mm	Height <sup>mm</sup>	Fixing Holes PCD mm
	E939	44.5	44.5	31.75
	E940	54.0	49.2	38.1
	E941	70.0	64.5	50.8
	E942	101.6	74.6	69.0

æ5

Product	Length	Height	Width	Weight	Pull Force
Number	mm	mm	mm	kg	kg
E925	108	140	108	5.67	100







### **Eclipse Magnetics Worldwide**

### **Europe**

Atlas Way Sheffield S4 7QQ England

**T** +44 (0)114 225 0600 **F** +44 (0)114 225 0610 sales@eclipsemagnetics.com

Representative:

Americas 442 Millen Road, Unit 9, Stoney Creek Ontario, L8E 6H2,

Canada

**T** +1 905-664-5585 **F** +1 905-664-7090 sales@eclipsetoolsinc.com

### China

No. 168 Chengjian Road Minhang District Shanghai PR China

**T** +86 21 6434 8600 \*150 **F** +86 21 6434 6488 szhou@eclipsemagnetics.com

### Australia

PO BOX 4400 Dandenong South Victoria 3175 Australia

**T** +613 8792-9999 **F** +613 8792-9900 sales@spear-and-jackson.com.au

### www.eclipsemagnetics.com

**Eclipse Magnetics Ltd** 

Atlas Way, Atlas North, Sheffield, S4 7QQ, England.

📞 +44 (0)114 225 0600 🔋 +44 (0)114 225 0610 🔍 www.eclipsemagnetics.com 😒 info@eclipsemagnetics.com

While every effort has been made to ensure the accuracy of the information within this publication, please note that specifications may change without notice.

