



ISO 9001 : 2008
No. FM31278

Eclipse Magnetics Catalogue

permanent magnets • assemblies • workholding • lifting magnets • tools • magnetic filters • switchable magnets

ECLIPSE MAGNETICS

Eclipse Magnetics began life as part of The James Neill Steel Company (founded 1889), first appearing as a brand after the First World War.

In the 1930s Eclipse produced the first mechanically switchable permanent magnet chuck. This technology is still used, in its modern form, in 99% of all grinding machines. In the 1950s Eclipse launched its red painted magnet range. Red not only became the most popular colour for magnets but the shapes and sizes of that range also set a standard that is still recognised worldwide.

The Special Applications division was founded in 1991 to investigate new applications. The knowledge base of the company was further widened in 1999 with the acquisition of Magnacut Ltd, a magnet materials processing company.

Today Eclipse Magnetics is part of the world renowned Spear and Jackson Group of Companies. It manufactures over 20,000 different magnetic products. These include materials, assemblies, tools, chucks, separators, filters and custom engineered handling units.

In 2006 Eclipse Magnetics moved its entire operation into modern new facilities at the group's headquarters at Atlas in Sheffield (pictured).

Eclipse Tools North America Inc., is a wholly owned subsidiary of Spear & Jackson PLC, and is responsible for the sales, distribution and customer service of our group's magnetics, hand tools and metrology products under the professional brands – Eclipse Magnetics, Neill Tools, Spear & Jackson, Moore & Wright – throughout North America.



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PERMANENT MAGNETS

Cylindrical Bars

Material **Alnico 5**
Max temperature **550°C / 1022°F**
Supplied in pairs.



Product No.	Diameter	Length	Weight per pair	Pairs / pack
METRIC	mm		kg	
E805	6	20	0.02	10
E806	8	25	0.04	5
E807	10	30	0.07	5
IMPERIAL	inches		lb	
E805	0.236	0.787	0.04	10
E806	0.314	0.984	0.09	5
E807	0.393	1.181	0.15	5

Rectangular Bars

Max temperature **550°C / 1022°F**
North pole is indicated by a notch.
Supplied in pairs.



Product No.	Length	Width	Height	Weight / pair	Material	Pairs / pack
METRIC	mm			kg		
E844	20	10	5	0.03	Alnico 5	5
E845	40	12.5	5	0.04	"	5
E846	60	15	5	0.13	"	5
E842	50	15	10	0.22	Alnico 2	2
E843	75	15	10	0.33	"	2
IMPERIAL	inches			lb		
E844	0.787	0.393	0.197	0.07	Alnico 5	5
E845	1.575	0.492	0.197	0.09	"	5
E846	2.362	0.590	0.197	0.29	"	5
E842	1.968	0.590	0.393	0.48	Alnico 2	2
E843	2.953	0.590	0.393	0.73	"	2

Button

Material **Alnico 5**
Max temperature **550°C / 1022°F**



Product No.	Diameter	Height	Slot Size (Min–Max)	Hole size	Weight	Max pull	Units / pack
METRIC	mm				kg		
E821	12.5	9.5	4.0–7.2	4.5	0.006	0.7	10
E822	19.1	12.7	5.6–8.7	4.8	0.02	1.9	10
E823	25.4	15.9	5.6–8.7	4.8	0.05	3.4	10
E824	31.8	25.4	8.0–12.7	7.1	0.113	4.8	2
E825	22.2	19.1	6.4–6.4	4.8	0.05	3	10
IMPERIAL	inches				lb		
E821	0.500	0.375	0.16–0.28	0.177	0.01	1.5	10
E822	0.750	0.500	0.22–0.34	0.188	0.04	4.2	10
E823	1.000	0.625	0.22–0.34	0.188	0.11	7.5	10
E824	1.250	1.000	0.31–0.50	0.279	0.25	10.6	2
E825	0.874	0.750	0.25–0.25	0.188	0.11	6.6	10

Minor

Material **Alnico 5**
Max temperature **550°C / 1022°F**



Product No.	Depth	Height	Width	Pole gap	Weight	Max Pull	Units / pack
METRIC	mm				kg		
E801	7.9	11.1	22.2	6.4	0.02	0.9	10
IMPERIAL	inches				lb		
E801	0.311	0.437	0.874	0.252	0.04	2.0	10

Major

Material **Alnico 5, mild steel**
The large gap design provides the highest practical field strength.



Product No.	Height	Width	Depth	Weight	Pole area	Pole gap	Flux density at gap centre	Units / pack
METRIC	mm			kg	mm		Wb/m Gauss	
862	111	103.5	50	2.9	22.2 × 52.4		0.210 2000	1
IMPERIAL	inches			lb	inches		Wb/m² Gauss	
862	4.370	4.075	1.968	6.4	0.874 × 2.063		0.210 2000	1

Pocket

Material **Alnico 5**
E802 **Alnico 5**,
E803 **Alnico 2**
Max temperature **550°C / 1022°F**



Product No.	Length	Height	Width	Width of gap	Weight	Max Pull	Units / pack
METRIC	mm				kg		
E802	22.2	25.4	7.9	6.4	0.03	2.4	10
E803	27	35	15.9	7.9	0.09	4	5
IMPERIAL	inches				lb		
E802	0.874	1.000	0.311	0.252	0.07	5.3	10
E803	1.063	1.378	0.625	0.311	0.20	8.8	5

Product No.	Length	Height	Width	Width of gap	Hole size	Weight	Max pull	Units / pack
METRIC	mm					kg		
811	30	20	20	15	5	0.06	4.5	5
812	40	25	25	20	5	0.12	9	5
813	45	30	30	23	5	0.18	11.8	2
814	58	35	40.5	27.8	2 × 7.9	0.37	23.5	1
815	70	41.3	57.2	34.1	2 × 7.9	0.71	37	1
816	79.4	54	82.6	38.5	2 × 9.5	1.45	47	1
817	60.3	40	62	31.75	n/a	0.8	35	1
818	79.4	54	85.7	47.6	n/a	1.8	60	1
IMPERIAL	inches					lb		
811	1.181	0.787	0.787	0.590	0.197	0.13	9.9	5
812	1.575	0.984	0.984	0.787	0.197	0.26	19.8	5
813	1.771	1.181	1.181	0.906	0.197	0.40	25.9	2
814	2.283	1.377	1.594	1.094	2 × 0.311	0.81	51.7	1
815	2.756	1.625	2.251	1.342	2 × 0.311	1.56	81.5	1
816	3.125	2.125	3.250	1.515	2 × 0.374	3.19	103.4	1
817	2.374	1.575	2.440	1.250	n/a	1.76	77	1
818	3.125	2.125	3.374	1.874	n/a	3.96	132	1

Power

Material **Alnico 5**

Max temperature **550°C / 1022°F**



Product No.	Diameter	Height	Thread size	Weight	Max pull	Units / pack
METRIC	mm			kg		
829	9.5	15.1	M3	0.005	1	10
830	12.7	15.9	M4	0.015	2	10
831NF	17.5	16	10 UNF	0.023	2.65	10
832NF	20.5	19	10 UNF	0.040	4	5
833NF	27	25	10 UNF	0.085	6.1	5
834NF	35	30	10 UNF	0.184	14.75	2
IMPERIAL	inches			lb		
829	0.375	0.594	M3	0.01	2.2	10
830	0.500	0.625	M4	0.033	4.4	10
831NF	0.689	0.629	10 UNF	0.051	5.8	10
832NF	0.807	0.748	10 UNF	0.088	8.8	5
833NF	1.062	1.000	10 UNF	0.187	13.4	5
834NF	1.377	1.181	10 UNF	0.405	32.5	2

831, 832, 833, 834 – with 10 UNF or ¼ UNC can be made to order

Deep Pots

Material **Alnico 5** (magnet), **mild steel** (body), **aluminium** (spacer)

Max temperature **220°C / 428°F**



Product No.	Diameter	Height	Hole size M3 (csn)	Screw head size	Weight	Max pull	Units / pack
METRIC	mm				kg		
826	19.1	7.5	3.7–6.7	M3 Csk	0.01	3	10
827	28.6	8.7	4.8–8.6	M4 Csk	0.03	5	10
828	38.1	10.35	4.8–8.6	M4 Csk	0.08	13	5
IMPERIAL	inches				lb		
826	0.750	0.295	0.145–0.263	M3 Csk	0.02	6.6	10
827	1.125	0.344	0.189–0.339	M4 Csk	0.06	11.0	10
828	1.500	0.407	0.189–0.339	M4 Csk	0.16	28.6	5

Shallow Pots

Material **Alnico 5** (magnet), **mild steel** (body)

Max temperature **550°C / 1022°F**



Product No.	Diameter	Height	Thread size	Weight	Max pull	Units / pack
METRIC	mm			kg		
NH 025	12.7	11.6	M5	0.01	2	10
NH 065	16	15.6	M6	0.018	5	10
NH 130	22	20	M6	0.04	9	5
NH 240	25	25	M6	0.07	15	5
IMPERIAL	inches			lb		
NH 025	0.500	0.457	M5	0.02	4.4	10
NH 065	0.630	0.614	M6	0.040	11.0	10
NH 130	0.866	0.787	M6	0.09	19.8	5
NH 240	0.984	0.984	M6	0.15	33.0	5

Neo-Hold Bi-Pole

Material **neodymium iron boron** (magnet), **aluminium** (body)

Max temperature **100°C / 212°F**



PERMANENT MAGNETS

Ceramic Channels

Max temperature **80°C / 176°F**

Shallow limpet type magnets set in a mild steel shell.



Product No.	Length	Width	Height	Plain fixing holes	Weight (each)	Max pull	Units / pack
METRIC	mm				kg		
E898/2	130	30	13	4.2	0.25	14	5
E899	190	43	13	4.2	0.50	48	2
IMPERIAL	inches				lb		
E898/2	5.12	1.81	0.512	0.165	0.55	31	5
E899	7.48	1.693	0.512	0.165	1.10	106	2

Ceramic Shallow Pots

Max temperature **80°C / 176°F**

Especially suitable for bases for machine tool accessories.

Supplied with removable hook.



Product No.	Diameter	Height	Thread Size	Weight	Max pull	Units / pack
METRIC	mm			kg		
E890	46	10.7	M6	0.09	6	5
E891	56	10.7	M6	0.13	16	5
E892	66	10.7	M6	0.19	25	5
IMPERIAL	inches			lb		
E890	1.811	0.421	M6	0.20	13.2	5
E891	2.205	0.421	M6	0.29	35.2	5
E892	2.598	0.421	M6	0.42	55.0	5

Heavy Duty Ceramic Shallow Pots

Especially suitable for bases for machine tool accessories.

Three M6 tapped holes with removable jacking screw.



Product No.	Diameter	Height	Fixing stud centres PCD	Central fixing point	Weight	Max pull	Units / pack
METRIC	mm				kg		
E895	66	10.7	46 - 3 holes	M6	0.27	25	1
E896	76	12.5	46 - 3 holes	M6	0.30	33	1
E897	100	15	63 - 3 holes	M6	0.61	55	1
IMPERIAL	inches				lb		
E895	2.598	0.421	1.811 - 3 holes	M6	0.59	55	1
E896	2.992	0.492	1.811 - 3 holes	M6	0.66	72.8	1
E897	3.397	0.590	2.480 - 3 holes	M6	1.34	121.0	1

Flexible Magnets

Material **Strontium Ferrite**

Max temperature **80°C / 176°F**

Supplied in sheet, strip and adhesive backed finishes.

Flexible strip and sheets available with a coloured vinyl finish. Can be cut with scissors.



Adhesive backed flexible magnets

Product No.	Width	Thickness	Length	Units / pack
METRIC	mm		m	
FM 660	7.5	0.75	10	1
FM 661	12.5	0.75	10	1
FM 662	20	0.75	10	1
EM 884-R	13	0.5	1	1
IMPERIAL	inches		feet	
FM 660	0.295	0.030	32.8	1
FM 661	0.492	0.030	32.8	1
FM 662	0.787	0.030	32.8	1
EM 884-R	0.511	0.020	3.3	1

Plain flexible magnetic strip

Product No.	Width	Thickness	Length	Units / pack
METRIC	mm		m	
FM 670	9.5	3.6	10	1
FM 671	11	4.6	10	1
FM 672	15	6.4	10	1
EM 880-R	9.5	3.6	2	1
IMPERIAL	inches		feet	
FM 670	0.375	0.141	32.8	1
FM 671	0.433	0.181	32.8	1
FM 672	0.590	0.251	32.8	1
EM 880-R	0.375	0.141	6.6	1

Can't find the right magnet?

There isn't enough space in this catalogue to show the massive range of ceramic, alnico, samarium cobalt and neodymium magnet materials in all the shapes, sizes and configurations that we are able to supply. If nothing in our range exactly matches your requirements, **we can supply custom magnets produced to your requirements.**



ASSEMBLIES

Product No.	Diameter	Height	Pull	Product No.	Diameter	Height	Pull
METRIC	mm		Newtons	IMPERIAL	inches		lb
E879	25	34	40	E879	0.985	1.339	8.8
E880	32	34	80	E880	1.260	1.339	17.6
E881	36	34	100	E881	1.417	1.339	22.0



Ceramic Magnetic Hooks

Max temperature **100°C / 212°F**
Ideal for hanging applications
e.g. supermarket signage.

Product No.	Diameter	Height	Weight	Pull	Product No.	Diameter	Height	Weight	Pull
METRIC	mm		g	N	IMPERIAL	inches		lb	lb
E750	6	20	4	8	E750	0.236	0.787	0.008	1.8
E751	8	20	7	22	E751	0.315	0.787	0.015	4.8
E752	10	20	11	40	E752	0.394	0.787	0.024	8.8
E753	13	20	19	60	E753	0.512	0.787	0.041	13.2
E754	16	20	29	125	E754	0.630	0.787	0.063	27.5
E755	20	25	57	230	E755	0.787	0.984	0.126	50.6
E756	25	35	128	400	E756	0.984	1.378	0.282	88
E757	32	40	228	600	E757	1.260	1.575	0.503	132



Samarium Cobalt Deep Pots

Shell material **Brass**
Max temperature **200°C / 392°F**
Use in jigs, assembly fixtures and positioning. Designed for press fit installation. High pull to surface area ratio.

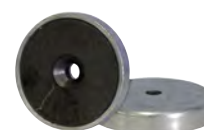
Product No.	Diameter	Height	Weight	Pull	Product No.	Diameter	Height	Weight	Pull
METRIC	mm		g	N	IMPERIAL	inches		lb	lb
E760	6	4.5	1	5	E760	0.236	0.177	0.002	1.1
E761	8	4.5	1.5	11	E761	0.315	0.177	0.003	2.4
E762	10	4.5	2.5	12	E762	0.394	0.177	0.005	2.6
E763	13	4.5	4.5	40	E763	0.512	0.177	0.010	8.8
E764	16	4.5	6.5	60	E764	0.630	0.177	0.014	13.2
E765	20	6	15	90	E765	0.787	0.236	0.033	19.8
E766	25	7	22	150	E766	0.984	0.276	0.048	33.0
E767	32	7	40	220	E767	1.260	0.276	0.088	48.4



Samarium Cobalt Shallow Pots

Shell material **Steel**
Max temperature **200°C / 392°F**
Samarium cobalt gives higher operating temperature. Use in jigs, fixtures and assemblies.

Product No.	Dia.	Height	Hole Size	Weight	Pull	Product No.	Dia.	Height	Hole Size	Weight	Pull
METRIC	mm			g	N	IMPERIAL	inches			lb	lb
E876	25	7	4.2	16	36	E876	0.984	0.276	0.165	0.035	7.9
E877	32	7	5.5	27	72	E877	1.260	0.276	0.217	0.059	15.8
E878	40	8	5.5	53	90	E878	1.575	0.315	0.217	0.117	19.8



Ceramic Shallow Pots Fixed Hole

Shell material **Steel**
Max temperature **100°C / 212°F**
Countersunk through-holes for easy fixing.

Product No.	Diameter	Height	Weight	Thread size	Pull	Product No.	Diameter	Height	Weight	Thread size	Pull
METRIC	mm		g		N	IMPERIAL	inches		lb		lb
E860	10	4.5	3	M3	4	E860	0.394	0.177	0.007	M3	0.88
E861	13	4.5	5	M3	10	E861	0.512	0.177	0.011	M3	2.20
E862	16	4.5	6	M3	18	E862	0.629	0.177	0.014	M3	3.96
E863	20	6	11	M3	30	E863	0.787	0.236	0.024	M3	6.60
E864	25	7	22	M4	40	E864	0.984	0.276	0.048	M4	8.80
E865	32	7	32	M4	80	E865	1.260	0.276	0.070	M4	17.6
E866	36	7	45	M4	100	E866	1.417	0.276	0.099	M4	22.0
E867	40	8	60	M5	125	E867	1.575	0.315	0.132	M5	27.5
E868	47	9	90	M4	180	E868	1.850	0.354	0.200	M4	39.6
E869	50	10	110	M6	220	E869	1.969	0.394	0.242	M6	48.4
E870	57	11	145	M4	280	E870	2.240	0.433	0.319	M4	61.6
E871	63	14	240	M8	350	E871	2.480	0.551	0.528	M8	77.0
E872	80	18	520	M10	600	E872	3.150	0.708	1.144	M10	132.0
E873	90	20	820	M10	700	E873	3.543	0.787	1.815	M10	154.0
E874	100	22	940	M12	900	E874	3.937	0.866	2.068	M12	198.0
E875	125	26	1700	M14	1300	E875	4.921	1.024	3.740	M14	286

Ceramic Pots Thread Hold

Shell material **Steel**
Max temperature **100°C / 212°F**
Threaded female bush allows for easy fixing. Ideal for all fixing applications.



Product No.	Diameter	Height	Weight	Pull	Product No.	Diameter	Height	Weight	Pull
METRIC	mm		g	N	IMPERIAL	inches		oz	lb
E730	6	10	2	2	E730	0.236	0.394	0.004	0.4
E731	8	12	4	3	E731	0.315	0.472	0.008	0.7
E732	10	16	9	5	E732	0.394	0.630	0.019	1.1
E733	13	18	17	10	E733	0.512	0.708	0.037	2.2
E734	16	20	29	15	E734	0.630	0.787	0.063	3.3
E735	20	25	57	35	E735	0.787	0.984	0.126	7.7
E736	25	30	110	80	E736	0.984	1.181	0.243	17.6
E737	32	35	200	150	E737	1.260	1.378	0.441	33.0
E738	40	45	420	200	E738	1.575	1.772	0.926	44.0
E739	50	50	720	350	E739	1.969	1.969	1.588	77.0



Alnico Deep Pots

Material **Alnico 5, mild steel shell, brass spacer**
Max temperature **400°C / 752°F**
For fixturing and press fit installation.

TOOLROOM MAGNETS

Magnetic Trays

Stainless steel trays with rubber coated ferrite (ceramic) magnet in base. Holds ferrous objects to the tray and the tray to ferrous objects.



Product No.	Dimensions
METRIC	mm
E630	360.7 × 130.0
E631	292.1 × 271.8
E632	241.3 × 142.2
E633	149.9 D
E634	109.2 D
IMPERIAL	inches
E630	14.2 × 6.3
E631	11.5 × 10.7
E632	9.5 × 5.6
E633	5.9 D
E634	4.3 D

Low Profile Channels

Steel channels with ferrite magnets: 9/32" mounting holes.



Product No.	Dimensions	Pull figure
METRIC	mm	kg
E660	139.7 × 34.9 × 9.5	12
E662	139.7 × 34.9 × 14.3	22
E663	304.8 × 38.1 × 8.7	6
E664	304.8 × 38.1 × 15.9	13
E665	304.8 × 50.8 × 15.9	20
E666	304.8 × 63.5 × 15.9	27
IMPERIAL	inches	lb
E660	5.5 × 1-3/8 × 3/8	28
E662	5.5 × 1-3/8 × 9/16	49
E663	12 × 1-1/2 × 11/32	15
E664	12 × 1-1/2 × 5/8	30
E665	12 × 2 × 5/8	45
E666	12 × 2-1/2 × 5/8	60

Shallow Pots With Loop

Nickel plated shallow pots with neodymium or ceramic magnet material, with loop.



Product No.	Material	Dimensions	Pull figure
METRIC		mm	kg
E689	Neodymium	51.6 D × 20.6	43
E690	Neodymium	51.6 D × 20.6	67
E691	Neodymium	66.5 D × 25.4	91
E697	Ceramic	66.5 D × 50.8	37
E698	Ceramic	82.6 D × 30.2	43
IMPERIAL		inches	lb
E689	Neodymium	2.03 D × 13/16	95
E690	Neodymium	2.03 D × 13/16	148
E691	Neodymium	2.62 D × 1	200
E697	Ceramic	2.62 D × 1-15/16	82
E698	Ceramic	3.25 D × 1-3/16	96

Print Holder

Ceramic magnet with plastic handle.



Product No.	Dimensions	Pull figure
METRIC	mm	kg
E670	25.4 × 25.4	0.9
E671	60.3 × 28.6	10.4
E672	60.3 × 28.6	17.3
E673	76.2 × 63.5	20.4
IMPERIAL	inches	lb
E670	1 × 1	2
E671	2-3/8 × 1-1/8	23
E672	2 × 1-5/8	38
E673	3 × 2-1/2	45

Shallow Pots With Bolt

Nickel plated shallow pots with neodymium or ceramic magnet material with bolt and nuts (supplied).



Product No.	Material	Dimensions	Pull figure
METRIC		mm	kg
E686	Neodymium	51.6 D × 4.6	43
E687	Neodymium	51.6 D × 4.6	67
E688	Neodymium	66.5 D × 9.4	91
E692	Ceramic	30.6 D × 30.2	1.8
E693	Ceramic	51.6 D × 46.0	17.2
E694	Ceramic	57.2 D × 30.2	4.5
E695	Ceramic	66.7 D × 50.8	37.2
E696	Ceramic	96.8 D × 47.6	43

Product No.	Material	Dimensions	Pull figure
IMPERIAL		inches	lb
E686	Neodymium	2.03 D × 0.18	95
E687	Neodymium	2.03 D × 0.18	148
E688	Neodymium	2.62 D × 0.37	200
E692	Ceramic	1-13/64 D × 1-3/16	4
E693	Ceramic	2-1/32 D × 1-13/16	38
E694	Ceramic	2-1/4 D × 1-3/16	10
E695	Ceramic	2-5/8 D × 1-15/16	82
E696	Ceramic	3-13/16 D × 1-7/8	95

Nickel Plated Pots

Nickel plated pots with neodymium or ceramic magnet material.



Product No.	Material	Dimensions	Pull figure
METRIC		mm	kg
E680	Ceramic	31.8 D × 4.8	1.8
E681	Ceramic	51.6 D × 7.9	17.2
E682	Ceramic	66.8 D × 9.7	37.2
E683	Ceramic	82.6 D × 11.2	43.1
E684	Neodymium	51.6 D × 4.6	67
E685	Neodymium	66.5 D × 9.4	91
IMPERIAL		inches	lb
E680	Ceramic	1.25 D × 0.19	4
E681	Ceramic	2.03 D × 0.31	38
E682	Ceramic	2.63 D × 0.38	82
E683	Ceramic	3.25 D × 0.44	95
E684	Neodymium	2.03 D × 0.18	148
E685	Neodymium	2.62 D × 0.37	200

Neodymium Blocks

Nickel plated neodymium block magnets.

Max temperature **120°C / 248°F**



Product No.	Units in pack	Dimensions	Pull figure
METRIC		mm	kg
N150	10	6.35 × 6.35 × 2.5	1.0
N151	1	12.7 × 12.7 × 12.7	2.0
N152	1	19.1 × 19.1 × 6.35	7.5
N153	1	25.4 × 25.4 × 12.7	20.0
N154	1	50.8 × 50.8 × 12.7	40
N155	1	50.8 × 50.8 × 25.4	80
IMPERIAL		inches	lb
N150		0.250 × 0.250 × 0.100	2.2
N151		0.500 × 0.500 × 0.500	4.4
N152		0.750 × 0.750 × 0.250	16.5
N153		1.00 × 1.00 × 0.500	43.9
N154		2.00 × 2.00 × 0.500	87.7
N155		2.00 × 2.00 × 1.00	175.5

Neodymium Discs

Nickel plated neodymium disc magnets.

Max temperature **120°C / 248°F**



Product No.	Units in pack	Dimensions	Pull figure
METRIC		mm	kg
N100	10	3.0 D × 1.5	0.3
N101	10	4.7 D × 1.5	0.4
N102	10	5.6 D × 2.5	0.6
N103	10	5.6 D × 6.35	1.6
N104	5	5.6 D × 12.7	1.9
N105	10	6.35 D × 2.5	0.5
N106	10	6.35 D × 3.2	0.6
N107	10	6.35 D × 4.7	1.1
N108	10	6.35 D × 5.1	1.5
N109	10	6.35 D × 56.35	1.6
N110	5	6.35 D × 12.7	1.9
N111	10	8.1 D × 6.35	1.4
N112	10	9.5 D × 1.5	0.8
N113	10	9.5 D × 2.5	1.3
N114	10	9.5 D × 3.2	1.6
N115	10	9.5 D × 4.7	1.8
N116	10	9.5 D × 5.1	1.9
N117	10	9.5 D × 6.35	2.1
N118	5	9.5 D × 9.5	2.3
N119	5	9.5 D × 12.7	3.3
N120	10	12.7 D × 1.5	1.4
N121	10	12.7 D × 3.2	2.1
N122	10	12.7 D × 4.7	2.5
N123	10	12.7 D × 5.1	2.7
N124	10	12.7 D × 6.35	3.2
N125	5	12.7 D × 9.5	6.5
N126	5	12.7 D × 12.7	8.6
N127	5	19.1 D × 9.5	10.0

Product No.	Units in pack	Dimensions	Pull figure
IMPERIAL		inches	lb
N100	10	0.120 D × .060	0.7
N101	10	0.187 D × .060	0.8
N102	10	0.220 D × .100	1.3
N103	10	0.220 D × .250	3.5
N104	5	0.220 D × .500	4.1
N105	10	0.250 D × .100	1.2
N106	10	0.250 D × .125	1.4
N107	10	0.250 D × .187	2.5
N108	10	0.250 D × .200	3.3
N109	10	0.250 D × .250	3.5
N110	5	0.250 D × .500	4.3
N111	10	0.320 D × .250	3.1
N112	10	0.375 D × .060	1.8
N113	10	0.375 D × .100	2.9
N114	10	0.375 D × .125	3.6
N115	10	0.375 D × .187	4.0
N116	10	0.375 D × .200	4.2
N117	10	0.375 D × .250	4.7
N118	5	0.375 D × .375	5.1
N119	5	0.375 D × .500	7.2
N120	10	0.500 D × .060	3.0
N121	10	0.500 D × .125	4.6
N122	10	0.500 D × .187	5.5
N123	10	0.500 D × .200	6.0
N124	10	0.500 D × .250	7.0
N125	5	0.500 D × .375	14.3
N126	5	0.500 D × .500	19.0
N127	5	0.750 D × 0.375	22.0

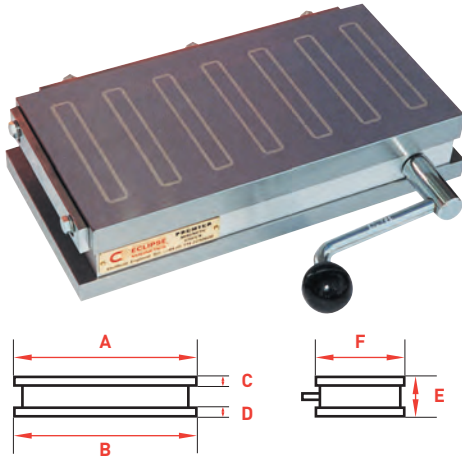
WORKHOLDING

PREMIUM RANGE MAGNETIC CHUCKS

Eclipse Magnetics invented the first permanent magnet chuck in 1934 and we continue to set the benchmark for quality workholding with today's Premier Range.

- The all-metal top plate is extra thick to ensure maximum accuracy after frequent re-grinding.
- Chrome plated side and end stops for packing and positioning
- Can be partially magnetised to allow part positioning in set up.
- Removable, ergonomically designed handles allow easy switching.
- 3-year guarantee against faulty workmanship and materials.
- Supplied with clamps.

RECTANGULAR

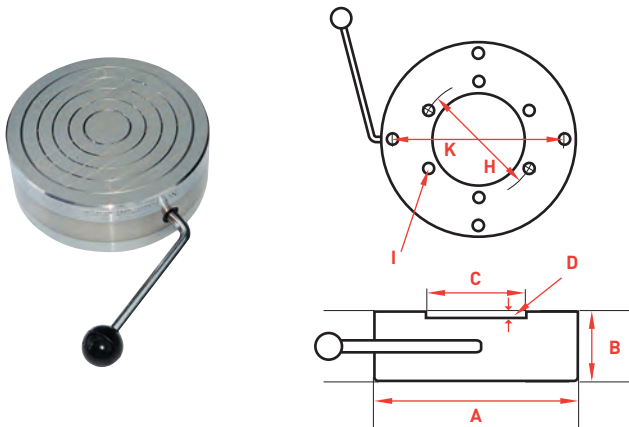


Product No.	A	B	C	D	E	F	Pole pitch
METRIC	mm						
AX510/P	258	276	19	14	53	129	35
AXS612/P	310	322	19	19	65	151	32
AXS614/P	351	360	19	19	65	151	32
AXS618/P	451	451	19	19	65	151	32
AXM824/P	601	601	19	19	66	201	35
AX47/P	178	203	10	9	40	127	35
IMPERIAL	inches						
AX510/P	10.15	10.87	0.748	0.551	2.086	5.08	1.378
AXS612/P	12.20	12.68	0.748	0.748	2.560	5.95	1.260
AXS614/P	13.81	14.17	0.748	0.748	2.560	5.95	1.260
AXS618/P	17.76	17.76	0.748	0.748	2.560	5.95	1.260
AXM824/P	24.53	24.53	0.748	0.748	2.598	7.91	1.378
AX47/P	7.00	7.99	0.393	0.354	1.575	5.00	1.378

CIRCULAR

The unique top plate configuration concentrates the magnetic energy on to the face of the chuck.

The chucks can be partially magnetised to aid the correct positioning of the workpiece. Grooved rings in the top plate assist in visual positioning to aid quick changeover in set up. Excellent for holding thin ring-shaped components that can be subject to radial distortion. Removable, ergonomically designed handles allow easy switching.

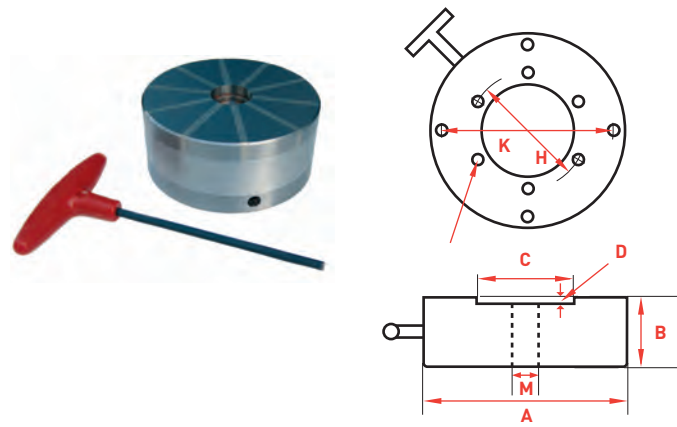


Product No.	A	B	C	D	H	I	K
METRIC	mm						
AX475C/P	121	45	51	6	76	M6	102
AX651C/P	165	57	76	4	102	M10	140
AX91C/P	229	60	86	5	114	M10	191
AX12C/P	305	76	152	5	184	M12	254
IMPERIAL	inches						
AX475C/P	4.75	1.77	2.00	0.236	3.00	M6	4.02
AX651C/P	6.50	2.24	3.00	0.157	4.00	M10	5.51
AX91C/P	9.00	2.36	3.39	0.197	4.50	M10	7.52
AX12C/P	12.00	2.99	5.98	0.197	7.25	M12	10.00

RADIAL POLE

Radial pole configuration concentrates the entire magnetism of the chuck into the workpiece—ideal for a wide range of operations from precision grinding to heavy turning.

Dynamically balanced to enable use at high rpm. All metal top plate and a rugged, industrial build ensures accuracy and longevity. Through-bore (except the NR100C) allows through-flushing of coolant during machining.



Product No.	A	B	C	D	H	I	L	M	No. of Poles
METRIC	mm								
NR100C	100	48	51	6	N/A	M6	76	N/A	6
NR150C	150	69	76	4	N/A	M10	102	36	10
NR225C	225	71	86	5	114	M10	191	54	14
NR300C	300	71	152	5	184	M12	254	66	18
IMPERIAL	inches								
NR100C	3.94	1.89	2.00	0.236	N/A	M6	3.00	N/A	6
NR150C	5.90	2.72	3.00	0.157	N/A	M10	4.02	1.42	10
NR225C	8.86	2.80	3.38	0.197	4.48	M10	7.52	2.13	14
NR300C	11.81	2.80	5.98	0.315	7.24	M12	10.00	2.60	18

STANDARD RANGE MAGNETIC CHUCKS

Standard Range chucks give high performance at a competitive price. High energy rare earth permanent magnets give an evenly distributed clamping force. Trouble-free operation is assured with a rugged, accurate build.

- Brass and steel top plates.
- Removable hexagon key handles ensure ease of operation through a 180 degree arc.
- All chucks are supplied with side and end stops.
- All chucks are supplied with clamps.

RECTANGULAR

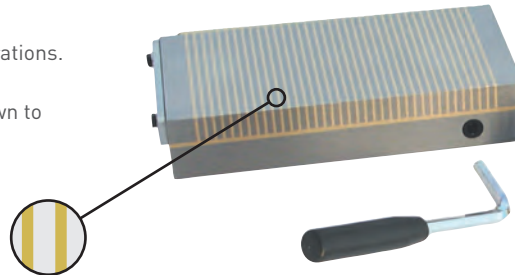
Standard Pole

Force **80N / cm²**

Primarily for grinding operations. Will effectively clamp all workpiece thicknesses down to 3mm / 0.118".

POLE SPACING

4.0mm / 0.157" steel
2.0mm / 0.079" brass



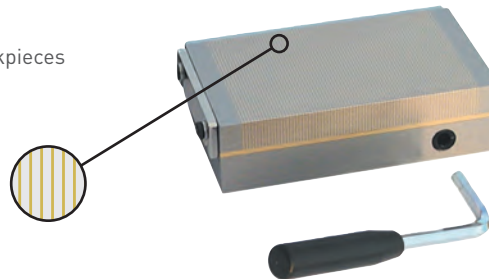
Fine Pole

Force **80N / cm²**

Ideal for small or thin workpieces – less than 3mm / 0.118".

POLE SPACING

1.5mm / 0.060" steel
0.5mm / 0.020" brass



STANDARD POLE	FINE POLE				
Product No.	Product No.	W	L	Ht.	Wt.
METRIC		mm			kg
ERSP1018	ERFP1018	100	180	50	8
ERSP1325	ERFP1325	130	250	50	14
ERSP1530	ERFP1530	150	300	50	18.5
ERSP1535	ERFP1535	150	350	50	21.5
ERSP1545	ERFP1545	150	450	50	27.5
ERSP2060	ERFP2060	200	600	50	50
IMPERIAL		inches			lb
ERSP1018	ERFP1018	3.94	7.09	1.96	17.6
ERSP1325	ERFP1325	5.12	9.84	1.96	30.8
ERSP1530	ERFP1530	5.90	11.81	1.96	40.7
ERSP1535	ERFP1535	5.90	13.78	1.96	47.3
ERSP1545	ERFP1545	5.90	17.72	1.96	60.5
ERSP2060	ERFP2060	7.87	23.62	1.96	110.0

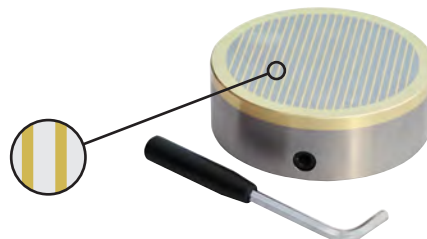
CIRCULAR

Standard Pole

Force **80N / cm²**

POLE SPACING

4.0mm / 0.157" steel
2.0mm / 0.079" brass

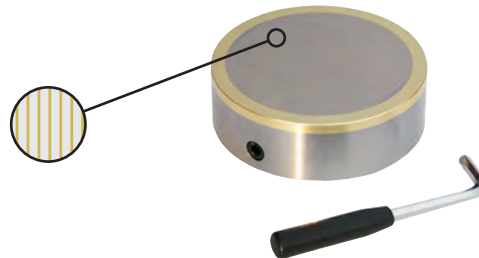


Fine Pole

Force **80N / cm²**

POLE SPACING

1.5mm / 0.060" steel
0.5mm / 0.020" brass



STANDARD POLE	FINE POLE			
Product No.	Product No.	Dia.	Ht.	Wt.
METRIC		mm		kg
ECSP100	ECFP100	100	50	3
ECSP125	ECFP125	125	50	5
ECSP160	ECFP160	160	50	7.5
ECSP195	ECFP195	195	50	11
ECSP255	ECFP255	255	50	16
ECSP310	ECFP310	310	50	24
ECSP350	ECFP350	350	50	27
IMPERIAL		inches		lb
ECSP100	ECFP100	3.94	1.96	6.6
ECSP125	ECFP125	4.92	1.96	11.0
ECSP160	ECFP160	6.30	1.96	16.5
ECSP195	ECFP195	7.68	1.96	24.2
ECSP255	ECFP255	10.0	1.96	35.2
ECSP310	ECFP310	12.2	1.96	52.8
ECSP350	ECFP350	13.77	1.96	59.4

WORKHOLDING

'V' Blocks

Material **Alnico 5**

'V' blocks are ideal for holding cylindrical and complex workpieces for marking, spark erosion, grinding and measurement operations.

Can be used on base, side or end.

Top 'V' maximum diameter **65mm / 2.56"**

Bottom 'V' maximum diameter **20mm / 0.79"**

TOLERANCES

Parallelism

0.025 per 100mm / 0.001" per 3.937"

Squareness

0.025 per 100mm / 0.001" per 3.937"

(Tighter tolerances available)

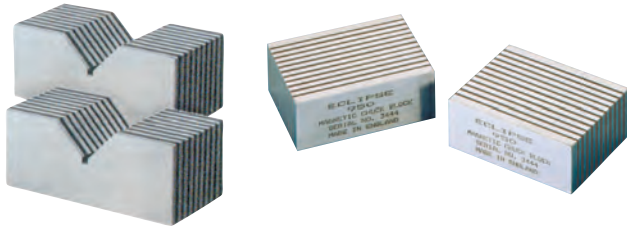


Product No.	Width	Length	Height	Weight	Max Clamping Forces	
					Top	Bottom
METRIC	mm			kg		
E934	69.85	101.6	95.25	3.96	200	150
E934 MP	69.85	101.6	95.25	7.92	200	150
E935	69.85	80	95.25	3.12	160	120
E935 MP	69.85	80	95.25	6.24	160	120
IMPERIAL	inches			lb		
E934	2.75	4.0	3.75	8.7	440	330
E934 MP	2.75	4.0	3.75	17.4	440	330
E935	2.75	3.15	3.75	6.9	352	264
E935 MP	2.75	3.15	3.75	13.7	352	264

MP = Matched Pair

Chuck Blocks

Supplied in matched and numbered pairs. May be used horizontally or vertically. Can be machined to accommodate awkward workpieces. Can be used to extend the flux paths of a magnetic chuck with parallel poles.



Product No.	Width	Length	Height	Weight	Units per pack
METRIC	mm			kg	
950	75	60	30	1.45	1 matched pair
950V	100	50	40	1.70	1 matched pair
IMPERIAL	inches			lb	
950	2.95	2.36	1.181	3.21	1 matched pair
950V	3.94	1.97	1.574	3.71	1 matched pair

Table Top Demagnetiser

Lightweight units for the removal of residual magnetism from components after workholding. CE approved. (Maximum usage 2 minutes in any 4 minute period).



Product No.	Width	Height	Depth	Weight	Voltage
METRIC	mm			kg	
DB 956CAN	150	117	87	3.83	110
IMPERIAL	inches			lb	
DB 956CAN	5.90	4.61	3.43	8.43	110

MAGNETIC FILTRATION

Micromag can benefit any industry or application where liquids, such as lubricants, coolants, cleansers and hydraulic fluids pick up unwelcome ferrous, para-magnetic and grinding medium particles. Suitable for grinding, diesinking, wirecutting, honing, lapping, laser cutting, part washing...

Winner

The Best New Equipment/Service Innovation Award
PMA FABTECH International and AWS Welding Show 2009

Install Micromag and

- extend the life of your filters
- extend the life and efficiency of your fluids
- eliminate your disposal costs
- reduce part wear on your machinery
- improve the finish of your products
- recycle contaminated waste

All this for a one off purchase price and

- **no running costs**
- **no consumables**
- **no maintenance**

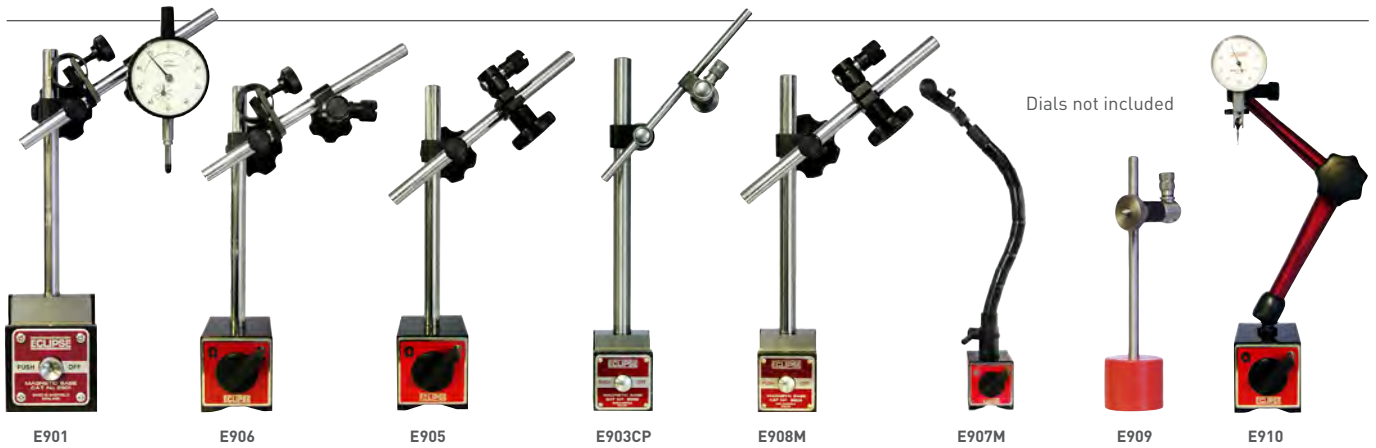


The contaminated core is easily cleaned in under a minute using the supplied cleaning tool. No pressure drop even when full!



Product No.	Length	Diameter	Weight	Max Pressure	Max Flow Rate	Max Temp
METRIC	mm		kg	Bar	litres / minute	°C
MM5/1.0	187	45	2.5	12	70	50
MM10/1.0	314	90	5		100	
MM20/1.5	604	80	8.5		150	
IMPERIAL	inches		lb	PSI	US gallons / minute	°F
MM5/1.0	7.36	1.77	5.5	174	18	122
MM10/1.0	12.36	3.54	11.0		26	
MM20/1.5	23.78	3.15	18.7		39	

PRECISION TOOLS



Product No.	Base Part No.	Switching type	Fitment Part No.	Fitment type	METRIC Max Pull kg	IMPERIAL Max Pull lb
E901	E901WF	Push button	RP991BL	Heavy duty with fine adjustment	80	176
E903CP	E900WF	Push button	RP72CP	Light duty	30	66
E908M	E900WF	Push button	RP995BL	Heavy duty	30	66
E905	E905WF	Lever	RP995BL	Heavy duty	80	176
E906	E905WF	Lever	RP991BL	Heavy duty with fine adjustment	80	176
E907M	E905WF	Lever	RP907S	Flexible snake arm F/A	80	176
E910	E905WF	Lever	RP999	Mechanical one piece	80	176
E909	834	Non-switchable	RP909FIT	One pillar	14	31

Use in the measurement, inspection and positioning of workpieces with dial indicators; to measure the flatness of a workpiece after grinding or milling; for checking concentricity of a workpiece. All stands will clamp onto curved and flat surfaces (with the exception of E909).

Magnetic Bases

4 magnetic faces. Can be attached to any ferrous surface to provide a rigid support.



Magnetic Base – Toggle switch



Product No.	Length	Height	Width	Hole	Weight	Clamping
METRIC		mm				kg
E900WF	48	50	40	M8	0.5	30
E901WF	64	76	64	M8	1.70	80
IMPERIAL		inches				lb
E900WF	1.890	1.969	1.575	M8	1.1	66
E901WF	2.519	3.000	2.519	M8	3.7	176

Product No.	Length	Height	Width	Hole sizes	Weight	Clamping
METRIC		mm				kg
E905WF	65	55	50	M8	1.05	80
E905WF/100	73	55	50	M8	1.20	100
IMPERIAL		inches				lb
E905WF	2.559	2.165	1.969	M8	2.31	176
E905WF/100	2.953	2.165	1.969	M8	2.64	220

Fitment Sets for Magnetic Bases

Product No.	Pillar height	Pillar diameter	Crossbar length	Crossbar diameter	Screw fixing
METRIC		mm			
RP72CP	185	12.5	150	6.3	M8
RP991BL	175	12	165	10	M8
RP995BL	175	12	165	10	M8
IMPERIAL		inches			
RP72CP	7.28	0.492	5.90	0.250	M8
RP991BL	6.89	0.472	6.50	0.394	M8
RP995BL	6.89	0.472	6.50	0.394	M8

Product No.	Max extension height	Screw fixing
METRIC	mm	
RP907S	315	M8
RP999	295	M8
IMPERIAL	inches	
RP907S	12.4	M8
RP999	11.6	M8



WELDING TOOLS

Magnetic Variable Clamp

Maximum temperature **120°C / 248°F**
Fast accurate holding of ferrous sheets and tubes for welding and assembly work.

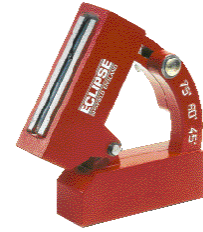


Product No.	Length	Height	Width	Weight	Pull
METRIC		mm		kg	
E952	195	200	11	0.49	20
IMPERIAL		inches		lb	
E952	7.68	7.87	0.43	1.1	44

NB Dimensions with arms set at 90°

Heavy Duty Variable Clamp

Clamp components during welding, fabrication and assembly applications. Powerful 40kg, 88lb clamping force, enables larger components to be clamped with ease.

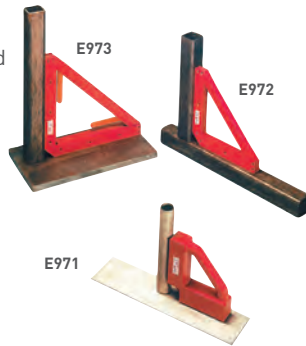


Product No.	Length	Height	Width	Weight	Pull
METRIC		mm		kg	
E974	140	140	35	1.40	40
IMPERIAL		inches		lb	
E974	5.51	5.51	1.38	3.1	88

90° Fixed Clamps

Two magnetic faces in a rigid 90° angle for jiggling on sheets, pipes and tubes.

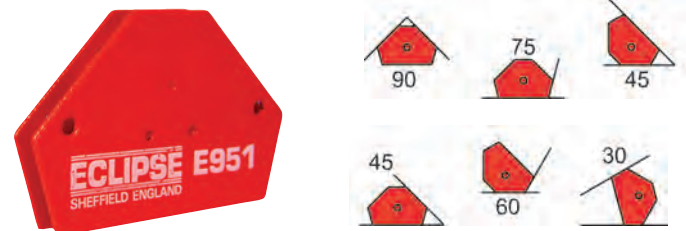
A fast and cost effective means of clamping components rigid at 90° angles during fabrication, assembly and weld preparation applications.



Product No.	Length	Height	Width	Weight	Pull
METRIC		mm		kg	
E971	140	140	35	1.40	40
E972	225	225	22	2.20	75
E973	300	300	35	4.70	200
IMPERIAL		inches		lb	
E971	5.51	5.51	1.38	3.1	88
E972	8.86	8.86	0.87	4.8	165
E973	11.81	11.81	1.38	10.3	440

Quick Clamps

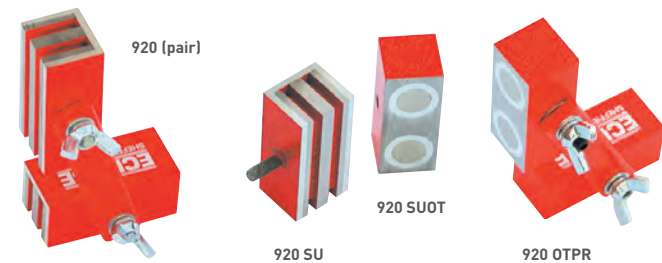
Fast and accurate holding of ferrous metals at different fixed angles. Also suitable for retrieval applications.



Product No.	Length	Height	Width	Weight	Pull
METRIC		mm		kg	
E951	100.5	65	12	0.3	10
E953	100.5	65	21	0.4	15
IMPERIAL		inches		lb	
E951	3.95	2.56	0.47	0.66	22
E953	3.95	2.56	0.83	0.88	33

Adjustable Links

Clamping components at any angle for welding and assembly applications.



Product No.	Length	Height	Width	Weight	Pull
METRIC		mm		kg	
920SU - single unit	60	25	29	0.35	13
920 pair	127	25	51	0.70	13
920SUOT - original type pair	60	25	29	0.32	12
920OTPR - original type pair	127	25	29	0.70	12
IMPERIAL		inches		lb	
920SU - single unit	2.36	0.985	1.14	0.77	28.6
920 pair	5.00	0.985	2.008	1.54	28.6
920SUOT - original type single	2.36	0.985	1.141	0.70	26.4
920OTPR - original type pair	5.0	0.985	1.141	1.54	26.4

Mitre Clamps

Effective and inexpensive method of clamping flat (E923) or round (E924) ferrous components.



Product No.	Length base face	Length top face	Height	Width	Weight	Pull
METRIC			mm		kg	
923	152	70	44.5	41	1.36	100
924	178	95	44.5	41	1.64	68
IMPERIAL			inches		lb	
923	5.98	2.75	1.75	1.61	3.00	220
924	7.00	3.74	1.75	1.61	3.60	150

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.

Product No.	Width	Height	Length	Pull	Maximum Current (amps)
METRIC		mm		kg	
E946	90	64	193	25	800
IMPERIAL		inches		lb	
E946	3.54	2.52	7.60	55	800



Holdfasts

Material **Alnico 5**

Maximum temperature **100°C / 212°F**

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



Product No.	Diameter	Height	Fixing holes PCD	No. of Holes	Weight	Max Pull
METRIC		mm				kg
E939	44.5	44.5	31.8	2	0.6	20
E940	55.0	49.5	38.1	2	1.0	40
E941	70.0	63.5	50.8	2	2.0	88
E942	100.0	74.5	69.1	3	4.7	183
IMPERIAL		inches				lb
E939	1.75	1.75	1.25	2	1.3	44
E940	2.17	1.95	1.50	2	2.2	88
E941	2.76	2.50	2.00	2	4.4	194
E942	3.94	2.93	2.72	3	10.3	403

Holder

Contains powerful Alnico 5 magnetic material.

Provides the welder with a powerful, rigid support on flat and round components at various angles during welding and welding preparation applications. Switchable and can be partially energised.



Product No.	Length	Height	Width	Weight	Max pull capacity
METRIC		mm			kg
E925	108	140	108	5.67	100
IMPERIAL		inches			lb
E925	4.25	5.51	4.25	12.47	220

Plate Drag

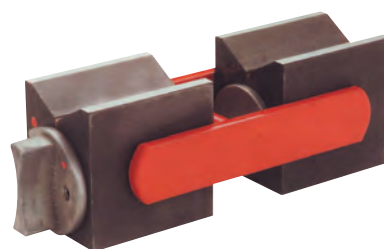
Use to remove steel sheets from a stack and transport sheets to and from machines etc. Contains powerful permanent ceramic magnets in an aluminium housing.



Product No.	Length	Height	Width	Weight	Pull
METRIC		mm			kg
E964	118	98	38	2.8	50
IMPERIAL		inches			lb
E964	4.64	3.86	1.49	6.2	110

Positioner

2 magnetic blocks connected by 2 non magnetic steel straps. The blocks contain high performance Alnico 5 magnetic material. Magnetic on two faces. On / off switch located at each end.



Product No.	Length	Height	Width	Weight	Max pull on flat face	Max pull on vee'd face
METRIC		mm				kg
922	206	63.5	76	3.17	113	104
IMPERIAL		inches				lb
922	8.11	2.50	2.99	7.0	249	229

LIFTING MAGNETS

Lifting magnets are quicker, easier to use and safer than slings, chains, hooks and grabs, and do not mark the finish of the load.

Manual switching and permanent magnet technology mean installation and operation couldn't be easier and running costs are non-existent.

Ultralift Plus – the world's safest lifter

The **Ultralift Plus** comes with the patented 'Safety Shim' which allows pre-testing of any load to ensure a 3:1 safety factor.
The unique 'Lifting Eye Mechanism' ensures that the lifting magnet cannot be switched off when it is holding a load.



Ultralift^{plus}™

Ultralift LM

For general-purpose, cost-effective lifting.
Locking mechanism to prevent accidental switching.



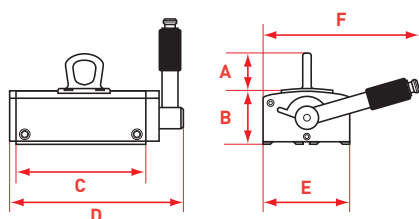
Ultralift TP

Thin Plate lifting magnet
Specifically for safe lifting of thin plate and pressings. It even lifts single sheets from the tops of stacks. Locking mechanism to prevent accidental switching.



Technical Data

Ultralift Plus



Product No.	Self Weight	Dimensions						Material Length Max	Flat Section		Round Section	
		A	B	C	D	E	F		SWL	Thickness	SWL	Diameter
IMPERIAL	lb	inches						inches	lb	inches	lb	inches
UL0275+	8.8	2.5	2.9	4.0	6.1	2.7	6.0	60	275	0.8	110	8
UL0550+	24.2	3.7	3.8	6.1	8.4	3.6	8.6	60	550	1.0	220	12
UL1100+	59.4	4.8	5.0	8.8	11.8	4.8	10.5	80	1100	1.2	440	16
UL2200+	138.6	5.5	6.9	10.2	14.1	6.9	15.4	120	2200	1.8	880	18
UL4400+	345.4	7.7	8.9	14.5	18.8	9.2	19.4	120	4400	2.75	1760	24

Ultralift TP

Product No	Self Weight	Dimensions						Material Thickness							
								0.20		0.25		0.30		0.40	
		A	B	C	D	E	F	SWL	Length Max	SWL	Length Max	SWL	Length Max	SWL	Length Max
IMPERIAL	lb	inches						lb	inches	lb	inches	lb	inches	lb	inches
TP330	18	3	3	6	8	4	7	165	60	220	60	330	60	440	60
TP660	33	3	3	12	14	4	7	330	80	440	80	660	80	880	80

Ultralift LM

Product No	Self Weight	Dimensions						Flat Section			Round Section		
		A	B	C	D	E	F	SWL	Thickness Min	Length Max	SWL	Diameter Max	Length* Max
IMPERIAL	lb	inches						lb	inches		lb	inches	
LM0275	9.9	2.1	2.4	4.3	5.9	3.0	5.9	275	0.8	60	110	10	60
LM0550	18.7	3.0	2.8	6.5	8.3	3.5	7.9	550	1.0	60	220	12	60
LM1100	38.5	4.1	3.5	8.9	11.1	4.2	9.6	1100	1.2	80	440	16	80
LM2200	80.3	4.4	4.1	12.8	15.4	5.4	14.4	2200	1.8	120	880	18	120
LM4400	173.8	6.7	5.2	15.7	19.0	7.3	20.7	4400	2.8	120	1760	24	120

WORKSHOP TOOLS

Recovery Magnet

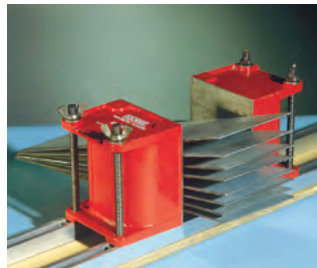
This powerful recovery magnet is constructed from a ceramic magnet sandwiched between two steel plates. It is designed for recovery or retrieval applications, such as retrieving objects from coolant tanks and vats.



Product No.	Width	Height	Thickness	Weight	Pull
METRIC	mm			kg	
E936	82.5	101.5	36	1.4	50
IMPERIAL	inches			lb	
E936	3.25	4.0	1.42	3.1	110

Magnetic Sheet Floaters

Mutual magnetic repulsion used to separate sheets in a stack. Can be used in conjunction with major machine tools and contribute to increased efficiency when integrated into the production flow.



Product No.	Width	Height	Depth	Mounting hole size	Weight per pair
METRIC	mm			kg	
E913	73	76	65	M8	1.40
E914	92	102	76	M8	3.10
E915	113	152	89	M10	6.75
IMPERIAL	inches			lb	
E913	2.87	2.99	2.55	M8	3.1
E914	3.62	4.02	2.99	M8	6.8
E915	4.45	5.98	3.50	M10	14.9

Magnetic Tool Rack

The toolrack contains 2 x 13.8 inch powerful magnet bars with extruded magnetic rubber lengths housed between two pole pieces. Neatly secures and hold tools in the garage or workshop and knives in the kitchen.



Product No.	Length	Height	Width	Weight	Pull
METRIC	mm			kg	
EM985-R	350	45	20	0.55	1
IMPERIAL	inches			lb	
EM985-R	13.8	1.77	0.78	1.21	2.2

Magnetic Sweeper

Quickly clear factory, workshop and garage floors, car parks and sports pitches of potentially dangerous and damaging metal debris.

NEW easy-clean design – quick contamination release trigger mounted on handle. Adjustable length handle.



Product No.	Head Width
METRIC	mm
MSW385	385
IMPERIAL	inches
MSW385	15.7



Telescopic Pick-up Magnet

Powerful neodymium iron boron magnets are used to ensure maximum pull for a small magnetic area. Ideal for retrieving ferrous objects that are out of reach.



Product No.	Length	Weight
METRIC	mm	kg
EM967-R	147–660	0.04
IMPERIAL	inches	lb
EM967-R	5.78–26.0	0.09

Magnetic Swarf Wand

Quickly and safely pick-up iron and steel offcuts, chips, swarf and small components. Quick-release handle.

Never needs to be re-magnetized. Non-rusting shaft.



Product No.	Length	Weight	Max capacity
METRIC	mm	kg	
MW400	400	0.475	6.35
IMPERIAL	inches	lb	
MW400	15.75	1.05	14

OTHER PRODUCTS

Eclipse Magnetics's specialist knowledge is applied in many different industries worldwide.

We supply magnetic materials that become essential components, and products that harness the power of magnetism to improve safety, efficiency and product quality.

These products are used where 'something' needs to be moved, removed, lifted, shifted, held, clamped, stored, transferred, separated, conveyed, turned...

That 'something' can include raw materials, scrap, waste, workpieces, components, parts, tools, products and packaging. And it does not have to be ferrous. Some items, such as stainless steel, can become para-magnetic – able to be attracted by magnets.

If you think that your company might benefit from the application of magnetism, contact us, Eclipse Magnetics —the magnet specialists, to discuss your requirements.

sales@eclipsetoolsinc.com

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T 1 800 260 2124

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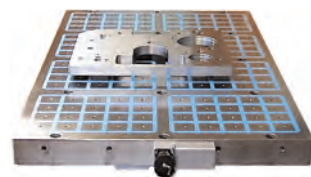
Material Handling

Our pneumatically and electrically switched permanent magnets are used in robotics, product transfer systems, gantry storage beams, lifters and workpiece holding. We can supply them with their own controller or ready to incorporate into your existing robot, PLC or computer controlled system. We can supply them from stock, with custom options or fully custom built to your specifications. Permanent magnet technology means they are failsafe, have low running costs and need little maintenance.



Filtration

For magnetic filtration applications with higher-volume / higher-contamination than is suitable for the Micromag (page 14), we have the Filtramag. The Filtramag can handle flow rates up to 600 litres per minute (more if units are used in parallel) but still provides all the benefits of magnetic filtration at negligible running cost. As with most of our products we can supply custom engineered magnetic filters to suit your needs.



Workholding

Our electronically-switched permanent-magnet chucks are available in a range of sizes, pole sizes and layouts, and, with configurable or custom-engineered pole extensions and a clamping force of up to 165 tons / m², there is an Eclipse Magnetics chuck suitable for your application.



Lifting Magnets

The 90° Disc and Plate Lifting Magnet is designed to make lifting round workpieces and rotating them for machine loading a simple one step process.



Switchable Permanent Magnets

The Optimag Pneumatic gripper is a pneumatically switched permanent magnet. It's ideal for engineers wanting to easily incorporate switchable magnets in their own handling and holding applications, and for robot end-of-arm tooling. It is available in 5 standard sizes as part of a modular system. Each size is available with a fine or coarse pole configuration, ensuring maximum clamping power is made on the minimum thickness materials.

CUSTOM ENGINEERING



Complete Eclipse Magnetics system for palletising aerosol containers.

How useful would it be if a supplier could modify one of their off-the-shelf products so it's just right for you?

Or if you could work with its engineers to create a one-off custom-built application to satisfy your specific requirements?

Of course you would like this to cost little more than a standard product and turnaround times to be just as quick....

This is all possible with Eclipse Magnetics.

So much of our output, across every part of our range, involves custom engineering that it fits into our everyday workflow. This means we can deliver the low cost, fast turnaround, custom engineered products our customers demand.

Previous Custom Products



Lifting device for picking and moving radioactive waste containers. Fully remotely actuated, hydraulically operated system with self-adjusting pads capable of holding flat or curved containers.



Switching rotary magnet for holding engine components while they are ground to very tight tolerances. Designed to last for millions of operations.



Micromag magnetic filter adapted for high pressure applications with steel housing.



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