ELECTROMAGNETS & BATTERY LIFTS

MAG-MATE®

Round Electromagnet Lifts

USA MADE

Round Electro Lift Magnets (RELM) provide concentrated holding power and a deep reaching magnetic field to lift thick, non-flexing, ferrous items.



Features

- No separate power supply required
- Control switch "On, Off and Release" functions
- Lower wattage requirements, higher lifting capacities and a lower unit weight than competitors
- Plug not included

NOTE: RELMs are not intended to be used as scrap handling magnets. Picking up several pieces of steel at once is not recommended and may result in serious injury or property damage.

Model No.	WLL	Voltage (VAC)	Watts	Amps	Magnet Dia. (A)	Magnet Height (B)	Overall Height (C)	Bail Ht.	Bail Wd.	Weight (lbs.)
RELM06	1,000	120	85	0.8	6"	3"	6"	1-5/16"	1-5/16"	30
RELM08	2,000	120	130	1.1	8"	4-1/8"	7-3/8"	1-5/16"	1-5/16"	58
RELM10	3,000	120	170	1.5	10"	4-3/8"	8-3/8"	1-5/16"	1-5/16"	86
RELM12	4,500	120	200	2.0	12"	5-1/4"	9-1/4"	1-3/4"	1-3/4"	152
RELM16	8,000	120	310	3.0	16"	6-3/4"	12-3/4"	6"	3-1/2"	365
RELM20	12,000	120	570	5.0	20"	7-1/2"	14"	7"	4"	545

***RELM WLL Values are stated at 50% of the actual value for a 2 to 1 design factor.**

Battery Lifts

Battery Lift Magnets (BLM) operate from a self-contained automotive type battery (not included), which results in maximum convenience, portability, versatility, and dependability. BLMs make loading and unloading of thick non-flexing ferrous parts simple and fast. No need for external power cords. Ideal for remote locations. Built-in chargers and a visible power gauge. No fancy lights, whistles or bells that can malfunction.



NOTE: BLMs are not intended to be used as scrap handling magnets. Picking up several pieces of steel at once is not recommended and may result in serious injury or property damage.

Electromagnets and Power Supply

Electromagnets offer On/Off capability through the application of controlled DC electrical current, controlled holding power and on-command release of ferrous steel parts. Most electromagnets require specially designed power supplies to achieve optimum magnetic performance. IMI offers power supplies for all of your electromagnet applications. Continuous duty 158°F (70°C) to 192°F (89°C) temperature rise. All electromagnets are **100% Duty Cycle.**

Parallel Pole Electromagnets: Ideal for Pick and Place or Lifting Applications where parts have flat surfaces and can be custom machined to specifically fit the application. Side mounted terminal blocks allow one set of lead wires from magnet to power supply (no splicing required, minimum 18 gauge leads). These electromagnets offer broad application potential due to their ability to deliver improved reach out through air gaps (i.e. painted, plated & coated surfaces).

Rectangular & Round Island Pole Electromagnets: Ideal for Pick and Place or Lifting applications where parts have uneven surfaces or odd shapes and provide concentrated holding power & high responsiveness in manual or automatic applications.

Power Supply: Designed for manual operation and uses 120 VAC and features Isolation Transformer Protection, a 10 foot grounded power cord & Fuse Protection. ***For more information on all available power supplies, contact us by phone, email or visit our website to request Tech Sheet AG-10B.***

Rectangular Island Pole Electromagnets

WLL - lbs (kg)	Ht. (in)	Wd. (in)	Ln. (in)	Tap Size	No. of Holes	Spacing (in)	Watts	Wt. (lbs)	24 VDC	120 VAC
55 (24.95)	1-1/4	1-1/2	1-1/2	10-32	1	Centered	7.0	0.31	ES2-111	-
100 (45.36)	1-1/4	1-1/2	2-1/2	10-32	2	1	10.0	1.00	ES2-121	ESA-121
200 (90.72)	1-1/2	2-1/2	2-1/2	1/4-20	1	Centered	16.0	2.00	ES2-221	ESA-221
400 (181.44)	1-7/8	2-1/2	4-1/2	1/4-20	2	2	27.0	5.00	ES2-241	ESA-241
1000 (453.60)	2-1/2	4	8	3/8-16	2	4	58.0	18.00	ES2-482	-

Round Island Pole Electromagnets

WLL - lbs (kg)	Dia. (in)	Ln. (in)	Tap Size	Watts	Wt. (lbs)	24 VDC	120 VAC
6 (2.73)	3/4	1-1/4	10-32	1.4	0.2	ER2-071	-
15 (6.80)	1	3/4	10-32	1.5	0.2	ER2-101	-
25 (11.34)	1	1-1/4	10-32	3.5	0.3	ER2-102	-
37 (16.78)	1-1/4	1-1/4	1/4-20	4.2	0.4	ER2-103	-
60 (27.21)	1-1/2	1-1/2	1/4-20	6.0	0.7	ER2-104	-
100 (45.30)	2	1-5/8	1/4-20	8.0	1.2	ER2-201	ERA-201
110 (49.89)	2	2-1/2	1/4-20	14.0	2.0	ER2-202	ERA-202
240 (108.86)	3	3	5/16-18	25.0	5.0	ER2-303	ERA-303
425 (192.78)	4	3	3/8-16	30.0	9.0	ER2-403	-

Parallel Pole Electromagnets

WLL - lbs (kg)	Ht. (in)	Wd. (in)	Ln. (in)	Tap Size	Holes	Spacing (in)	Watts	Wt. (lbs)	24 VDC
55 (24.95)	1-3/8	1	2	1/4-20	2	1	6	0.22	EP2-121
85 (38.56)	1-3/8	1	3	1/4-20	2	2	11	1.00	EP2-131
105 (47.63)	1-3/8	1	4	1/4-20	2	3	13	1.00	EP2-141
235 (106.60)	2-3/4	2	4	5/16-18	2	3	22	4.00	EP2-242
320 (140.62)	2-3/4	2	6	5/16-18	2	4.5	38	5.00	EP2-262
465 (145.15)	2-3/4	2	8	5/16-18	2	6.25	52	8.00	EP2-282

Power Supply

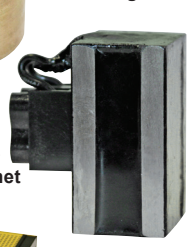
Ht. (in)	Wd. (in)	Ln. (in)	Watts	Wt. (lbs)	Model No.
5	4	7-1/2	100	7.00	PSA1210GB

Rectangular Electromagnet with 120 VAC cord





Round Electromagnet



Parallel Pole Electromagnet



Power Supply