MagnaLift

- Self-contained, battery-operated lift magnets for lifting large flat plates, tubes, rounds, structural steel, odd shapes, coils, discs, rings, and more
- Eases loading and unloading of machines
- Eliminates chains, hooks, and slings
- Increases production by decreasing material handling time
- All units complete with built-in chargers and removable power

Magnetic Power-Grip

- Rugged lightweight magnets
- Operate on self-contained, automotive-type storage batteries for maximumconvenience, versatility, and dependability
- Eliminate need for external powercords
- Standard units complete withbuilt-in charger
- Simplify and speed loading andunloading of machines

@ObsidianMFG

@Magnapowergrip

MagnaLift

Three available MagnaLift series models:

- BLM: Standard models for lifting flat plate
- BMU: Bi-polar magnets that can be used for flat plates; with optional adapter shoes, the BMU series can be used for round, tubes, structural steel, bundles, and odd shapes
- BLMC: Spreader beam system consisting of two magnets mounted on a 4 ft. beam. Magnets can be moved in or out. For use on larger flat plates, rings, discs, coils, dies, etc.

MagnaLift Specifications

Model	Rated Lifting Capacity (lb.)	Voltage	Watts	Magnet Size (in.)	Height to Clevis (in.)	Weight (lb.)
BLM-25	2500	12	36	10 X 10-1/2	18-1/2	155
BLM-50	5000	12	120	8 X 18	21	295
BMU-50	5000	12	120	8 X 24	24-1/2	390
BLMC-50	5000	12	120	(2) 10 X 10-1/2	25-1/2	430

The Rated Lifting Capacity is based on battery being at full charge and the ammeter registering well into the green zone.

MAGNETIC Power-Grip

- Easiest lift magnet to use
- Variety of Rated Lifting Capacity provides a solution to every lift magnet need
- Simplify and speed up loading and unloading of machines

Power-Grip Specifications

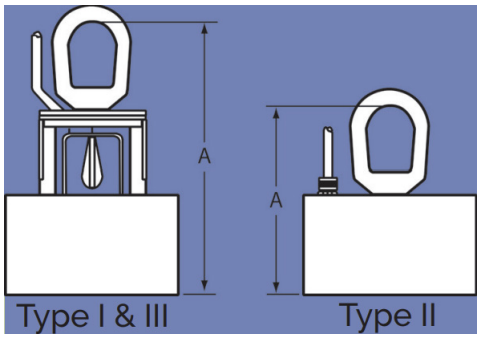
Model	Rated Lifting Capacity (lb.)	Voltage	Watts	Magnet Size (in.)	Height to Clevis (in.)	Weight (lb.)
LB- 2G	2500	6	52	7-1/2 x 13-1/8	19-3/4	135
LB-5G	5000	12	104	7-1/2 x 20-1/8	19-3/4	250
LB-7G	7500	18	156	9-1/2 x 25	20-1/2	360
LB-10G	10,000	24	208	7-1/2 x 41-1/8	19-3/4	470
LB-15G	15,000	36	312	9-1/2 x 50	21	700

The Rated Lifting Capacity is based on battery being at full charge and the ammeter registering well into the green zone.

Electric Lift Magnets

Three models available:

- RM: Round magnets that offer a high ratio of lifting capacity to magnet size and are designed to be used for flat plates, slabs, and blocks
- EM: Rectangular magnets for flat plate, slabs, blocks, etc.
- MU: Bi-polar magnets that can be used for flat plates and with optional adapter shoes can be used for rounds, tubes, structural steel, bundles, and odd shapes



Three switching arrangements available:

- Type I: Switch with on/off/release positions mounted on magnet, for use with 115 volts DC (Part no. 361022)
- Type II: No switch on magnet
- Type III: Switch with on/off/release positions mounted on magnet, for use with 115 volts AC (Part no. FL 30MY1)

Electric Lift Magnet Specifications

Model	Rated Lifting Capacity (lb.)	Voltage	Watts	Magnet Size (in.)	Height to Clevis - Dim. A (in.)		Weight (lb.)
					Switch Type I & III	Switch Type II	
RM-6	1200	115	33	6-3/8 dia.	11-1/2	7-1/4	50
RM-8	2500	115	51	8-3/8 dia.	12-7/8	8-3/4	75
RM-12	6000	115	149	12-1/4 dia.	15-1/4	10-7/8	210
RM-16	8000	115	260	16-3/4 dia.	15-1/2	11	300
RM-20	13,000	115	260	20 dia.	14-1/8	9-5/8	615
EM-25	2500	115	55	7-1/2 x 13-1/8	6-3/4	6-3/4	105
EM-50	5000	115	120	8 x 8	11	11	160
EM-90	9000	115	166	9-1/2 x 25	10-3/4	10-3/4	265
MU-30*	3000	115	100	6 x 18	13	13	170
MU-50*	5000	115	240	8 x 24	14-7/8	14-7/8	290

*Adapter shoes are optional for the MU-30 and MU-50. Above weights and measurements do not include shoes. All magnets designed for 100% duty. The Rated Lifting Capacity is based on the designated DC being applied to magnet.

Repairs

We offer complete repair and rebuilding services on lift magnets. Lift magnets repaired in accordance with our recommendations are covered by the same warranty offered with new lift magnets. We will inspect your lift magnet before confirming the need for repair.

CAUTION– When operating lift magnets, we recommend visually inspecting the lift magnet upon each usage, looking for possible hazards and safety issues. If the visual inspection provides the operator with any doubt of the lift magnet's capabilities, it is highly recommended that the lift magnet be placed out of service until those safety concerns can be addressed and corrected. ALWAYS refer to the safety precautions and rated lift capacities supplied with the lift magnet when purchased.

Special Magnets and Systems

Contact our sales team to inquire about magnets for.....

• Billets • Coils • Castings • Bundles • Plates • Structrual Steel

Breakaway Force Information

The breakaway force is a minimum of 2 times the rated lifting capacity listed for each magnet. The breakaway force is the force required to vertically remove the lifting magnet from a low carbon rolled steel plate of 1-1/2" minimum thickness. The portion of this plate in contact with the magnet shall have a 125 Micro-inch (3.2 x 10-3mm) finish and be flat within .002" per foot (.05mm) but not exceed .005" (.127mm) total. The full operating

Safety Information for Lift Magnets

Load characteristics other than weight need to be considered in order to determine the safe weight a magnet can lift.

1. LOAD SURFACE CONDITIONS

Magnetic lines of force do not flow easily through air; they need iron in order to flow freely. Therefore anything that creates an air gap between a magnet and the load limits the flow of magnetic force and thus reduces the lifting capacity of a magnet. Paper, dirt, rust, paint, scale as well as a rough surface act the same as air, creating a gap between the magnet and load.

2. LOAD LENGTH OR WIDTH

When the length or width of a load increases it ceases to lie flat and the load begins to droop at the edges. This drooping or sagging of the load can create an air gap between the load and the magnet. If this occurs then the lifting capacity of the magnet is reduced.

3. LOAD THICKNESS

Magnetic lines of force are more effective when they flow through iron instead of air. The thicker the load is the more lines of magnetic force are able to flow. After a certain thickness of load no more lines of force will flow because the magnet has reached its full capacity. Thin material (load) means less iron available and thus fewer lines of magnetic force flow from the magnet into the load, reducing the lifting ability of the magnet. Every magnet should be rated to tell the user what minimum thickness of load is required to reach full lifting capacity. Below such thickness of load the user knows they must derate the lifting capacity of the magnet.

4. LOAD ALLOY

Low carbon steels, such 1020 steel, are nearly as good conductors of magnetic lines of force as pure iron. However, many other alloys contain non-magnetic materials which reduce the ability of magnetic lines of force to flow into the load. An alloy such as 300 series of stainless steel is almost as poor a conductor of magnetic force as air. Some alloys have significant impact on a magnet's safe lifting ability. Consult us directly with material specifications for more details.

Spare Parts

Most in-stock for immediate shipping

Lift magnet spare parts		LB non-charging units	LB-2G	LB-5G	LB-7G	LB-10G	LB-15G	BLM-25	BLM-50	BLM-60	BLMC-50	BMU-50	Type I	Type III
1004980	Resistor		X	X	X	X	X							
1004981	Resistor		X	X	X	X	X	X	X	X	X	X		
203565	Lift magnet switch													X
206360	Clear plastic switch spacer	X	X	X	X	X	X	X	X	X	X	X	X	X
361022	Control swithc assembly	X	X	X	X	X	X	X	X	X	X	X	X	X
361024	Charger switch							X						
361025	Charger switch								X	X	X	X		
361026	Ammeter							X	X	X	X	X		
361027	Control switch handle	X	X	X	X	X	X	X	X	X	X	X	X	X
361031	Battery cable red							X	X	X	X	X		
361032	Battery cable black							X	X	X	X	X		
361033	Release pad resistor							X	X	X	X	X		
361035	Magnet line recept							X	X	X	X	X		
361079	Cabinet handle							X	X	X	X	X		
361080	Receptacle Cover							X	X	X	X	X		
361096	Cover knob							X	X	X	X	X		
361100	Ammeter	X	X	X	X	X	X							
361101	Polarized recept	X												
361102	Polarized plug	X												
361108	Circ. breaker		X	X	X	X	X	X	X	X	X	X		
361109	Chrg. Recept		X	X	X	X	X	X	X	X	X	X		
361113	Transformer- 12V		X	X										
361113-BLM	Transformer- 12V							X	X	X	X	X		
361117	Rectifier stack		X	X	X	X	X	X	X	X	X	X		
361128	Clevis		X	X	X	X	X	X	X	X	X	X		
361129	Clevis pin		X	X	X	X	X	X	X	X	X	X		
361135	Cord Assembly		X	X	X	X	X	X	X	X	X	X		
361136	Battery- Jumper cable				X	X								
361137	Cable Assembly- Bat+	X	X	X										
361138	Battery Cable- positive						X							
361139	Cable Assembly- Bat-	X	X	X	X	X	X	X						
361284	Battery Cable- Positive					X								
361288	Transformer 18V/24V					X	X							
361290	Transformer 36V							X						
369317	On-Off Plate			X	X	X	X	X					X	X
369191	Mag Line Plug								X	X	X	X		

If your lift magnet is manufactured before 2010, call our sales team for assistance with replacement parts. You may need different parts than what is listed above due to updates to each model.

Inspections

Keep your lift magnets operating like new with annual inspections and load testing at our facilities by our trained technicians.

Annual Inspections and Load Testing can.....

- Help you remain in compliance with OSHA guidelines
- Improve your plant safety
- Reduce the number of your equipment breakdowns
- Reduce downtime in your facilities
- Identify minor problems before they result in major repairs for your company

If any repairs are needed or modifications have been made to the lift magnet and identified during inspection, customer would be notified before proceeding with repair.

Need more info? Reach out to our team!

Obsidian Manufacturing Industries, Inc.
5015 28th Avenue
Rockford, IL 61109
Phone: 815-962-8700
info@obsidianmfg.com

Find us on all social media platforms!

@ObsidianMFG

@Magnapowergrip