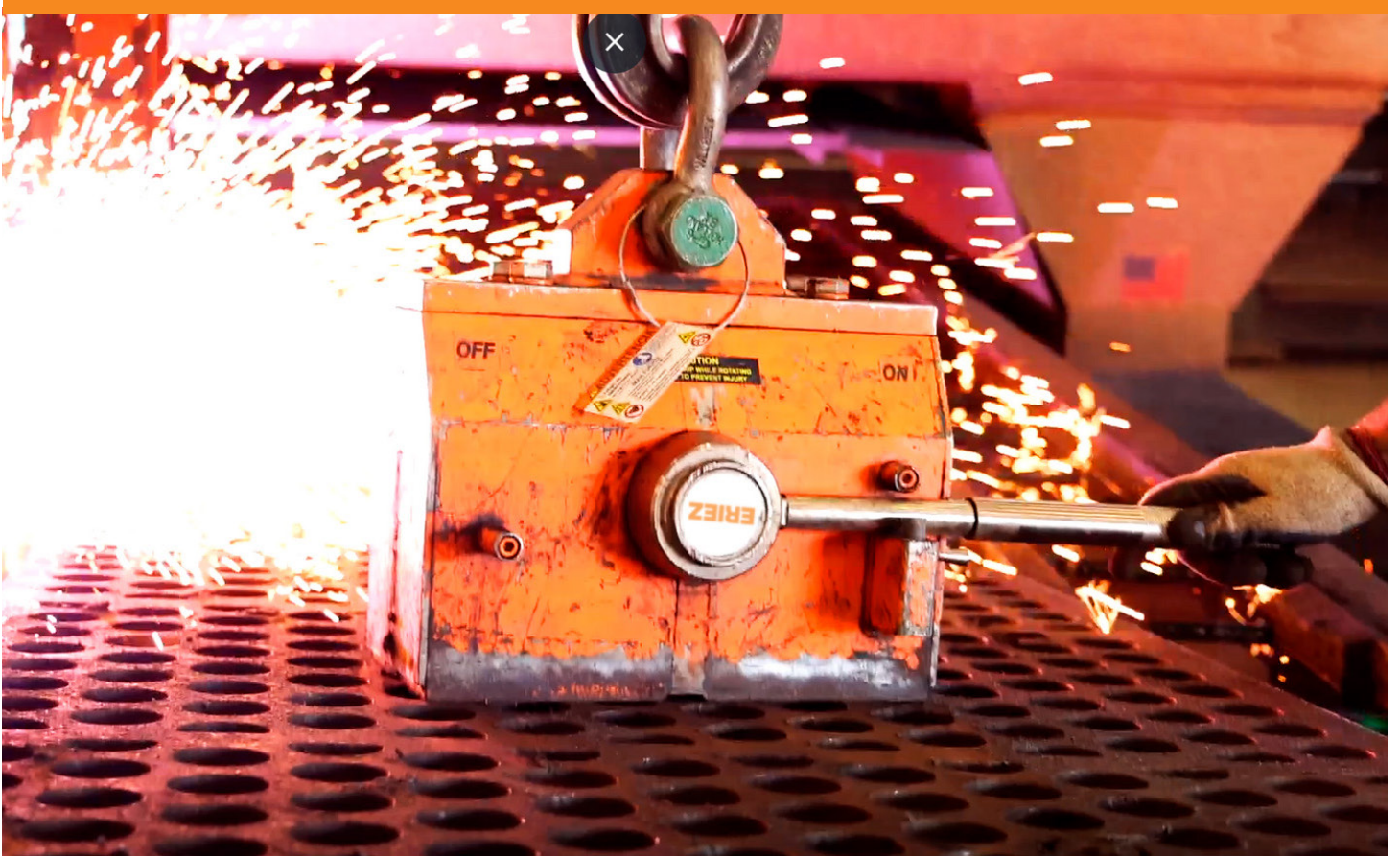


ERIEZ



SAFEHOLD LIFTING MAGNETS - USA

PERMANENT MAGNETS FOR POSITIONING STEEL



ERIEZ
GLOBAL LEADER IN SEPARATION TECHNOLOGIES

About Eriez

Established in 1942, Eriez stands as a pioneering force in separation technologies, embodying a truly global presence.

With 12 wholly owned subsidiaries across the globe, we proudly design, manufacture, and support our magnetic separation, flotation, metal detection, and material handling equipment on an international scale.

Our dedicated team of knowledgeable and experienced sales engineers collaborates closely with customers, understanding their unique challenges to deliver dependable, high-performance equipment, systems, and solutions.

Whether clients require our standard equipment or custom solutions tailored to their precise specifications, Eriez delivers.

Drawing from more than 80 years of experience across diverse industries, including metalworking, mining and minerals processing, food, processing, and packaging, aggregates, metals recycling, X-ray inspection, and many other sectors, Eriez leverages its extensive experience to design and supply products that elevate productivity, efficiency, and product purity.

Eriez remains steadfast in its commitment to setting the global standard for excellence in key technologies, driving innovation and reliability across industries worldwide.

SafeHold Lifting Magnets

Securely Elevate & Position Ferrous Material

Eriez lifting magnets provide powerful, efficient solutions for moving, positioning, and handling steel and ferrous material in industrial operations. Reduce the reliance on slings and chains for minimal downtime and improved shop safety. Built for heavy loads and rugged environments, Eriez magnetic handling equipment enhances productivity in steel fabrication, machining, and material handling applications while delivering consistent, low-maintenance performance — all with no power supply needed.

RPL Series — Compact design for round and flat material lifting, with extended capacity for flat materials

XPL Series — Engineered for wide range of round and irregular materials

EPL Series — Highest capacity for flat material lifting

APL Series — Crane activation for limited operator access

Applications



Flat Material

- Unload raw material
- Load plates to burn tables and laser tables
- Unload parts after cutting
- Use multiple magnets on a spreader plate for large pieces



Round Material

- Excellent for loading bar stock into lathes
- Wide range of diameters can be handled
- Custom pole shoes available on some models, if required



Structural Elements

- Move and position angles, channels, and tubes for welding
- Handle both square and round structural tubing

Irregular Shapes

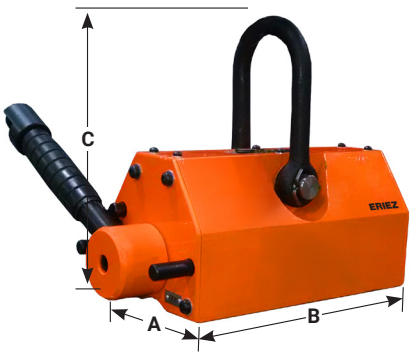
- Handles castings, both finished and rough
- Move frames, small fabrications, and more

SafeHold Permanent Lifting Magnets

RPL Series

Lift, move, or position round or flat materials with the same two-pole design. These compact and powerful rare earth lift magnets operate with a locking mechanism built into the handle for one-handed activation.

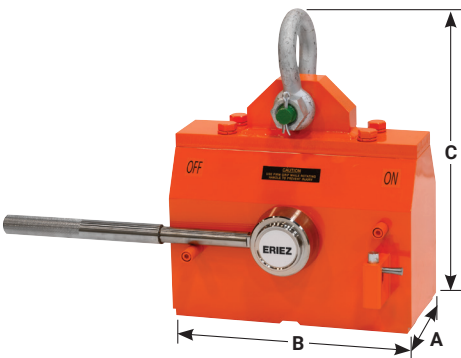
- Five models with capacities of up to 5,000 lbs for flat materials and 1,250 lbs for round materials
- Manual on/off operation
- Super compact design



XPL Series

Manually operated rare earth permanent lift magnets offer high capacity and versatility for their size and cost. Easy to activate via handle, these magnets are capable of handling flat materials and are designed for wide ranges of diameters of round materials.

- Six models with capacities of up to 3,500 lbs of flat material and 2,700 lbs for round material
- Manual on/off operation
- Designed to handle wide ranges of diameters on round materials



Features:

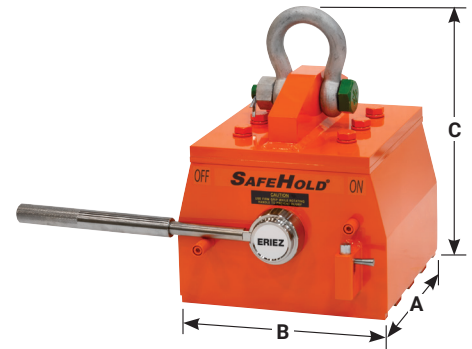
Model #		RPL - 2	RPL - 7	RPL - 15	RPL - 25	RPL - 50	XPL - 3/2	XPL - 6/4	XPL - 10/6	XPL - 17/12	XPL - 22/16	XPL - 35/27
Flat - max cap (lbs.)		250	750	1,500	2,500	5,000	300	600	1,000	1,700	2,200	3,500
Min Thickness - max cap (in.)		1	1	1 3/4	1 3/4	2 3/8	3/8	1/2	3/4	1 1/4	2	2
Round - max cap (lbs.)		125	375	750	1,250	—	200	400	600	1,200	1,600	2,700
Min to Max OD (in.)		3 min	5 min	6 1/2 min	10 min	—	2 1/2 to 5	3 to 9	3 to 10	4 to 15	4 to 15	6 to 18
Material Thickness Capacity Ratings *	11 Gauge	50	100	100	90	NR	90	100	120	150	160	160
	1/4 inch	110	250	260	220	NR	240	360	380	440	500	530
	3/8 inch	180	500	670	600	NR	300	550	700	830	1,000	1,000
	1/2 inch	210	680	1,050	900	NR	300	600	900	1,320	1,360	1,330
	3/4 inch	240	710	1,350	1,500	NR	300	600	1,000	1,550	1,680	2,080
	1 inch	250	750	1,430	1,880	NR	300	600	1,000	1,630	2,000	2,830
	1 1/4 inch	250	750	1,460	2,260	NR	300	600	1,000	1,700	2,000	2,830
	1 1/2 inch	250	750	1,460	2,400	3,660	300	600	1,000	1,700	2,100	2,960
	1 3/4 inch	250	750	1,500	2,500	4,000	300	600	1,000	1,700	2,100	3,260
	2 inch	250	750	1,500	2,500	4,660	300	600	1,000	1,700	2,200	3,500
Dimensions	A (in.)	3 9/16	6 3/8	9 1/8	10 5/8	14 7/8	3 3/8	4 1/2	5 5/16	5 5/16	5 5/16	6 1/8
	B (in.)	2 1/2	3 5/8	4 13/16	6 15/16	9 7/32	4	6 1/16	7 1/4	9 1/2	10 3/8	13 1/2
	C (in.)	4 13/16	7 3/32	9 1/8	11 17/32	15 1/32	7 3/16	7 15/16	10 3/8	12 5/16	14 1/4	17 1/4
	Weight (lbs.)	7	22	53	110	276	16	33	59	93	114	217

Notes: Listed capacity ratings are on flat, clean, polished steel plate with magnet face in full contact with the load surface.

EPL Series

Ideal for carrying semi-finished products with flat surfaces such as machine parts, press molds for forming, or steel plates, this small, lightweight magnet design features powerful magnetic lifting with an easy-to-rotate handle.

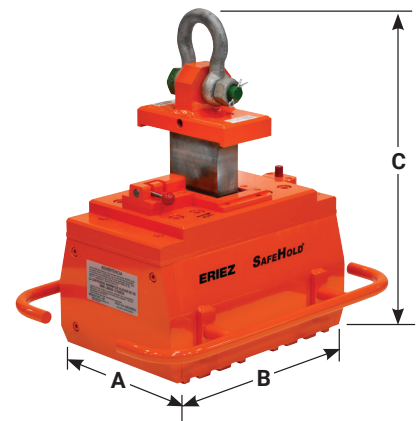
- Manual on/off operation
- Four models with capacities of up to 7,500 lbs of flat material
- Highest rated capacity permanent lift magnet on the market



APL Series

Ideal for loading and unloading steel sheets from anywhere that limits operator access, these permanent magnets turn on and off automatically, without having to manually release the magnet.

- Crane activated on/off mechanisation
- Seven models with capacities of up to 10,000 lbs of flat material
- No manual magnet activation required



Features:

Model #		EPL - 4	EPL - 28	EPL - 55	EPL - 75	APL - 6	APL - 11	APL - 24	APL - 38	APL-52	APL-70	APL-100
Flat - max cap (lbs.)		450	2,800	5,500	7,500	600	1,100	2,400	3,800	5,200	7,000	10,000
Min Thickness - max cap (in.)		1 1/4	1-1/4	2	1 3/4	1/2	1 1/4	2	2	2	2	2
Round - max cap (lbs.)		—	—	—	—	—	—	—	—	—	—	—
Min to Max OD (in.)		—	—	—	—	—	—	—	—	—	—	—
Material Thickness Capacity Ratings *	11 Gauge	100	210	NR	NR	130	120	150	190	250	300	368
	1/4 inch	280	750	1,010	1,180	450	400	610	920	960	1,040	1,068
	3/8 inch	360	1,320	1,960	2,080	530	620	1,070	1,440	1,650	1,810	1,972
	1/2 inch	410	1,800	2,460	2,910	600	760	1,550	1,880	2,190	2,520	2,828
	3/4 inch	420	2,180	2,680	3,680	600	780	1,780	2,410	2,830	3,620	4,212
	1 inch	440	2,280	3,900	4,700	600	880	1,980	2,610	3,360	4,670	5,388
	1 1/4 inch	450	2,800	4,690	6,450	600	1,100	2,160	3,460	3,870	5,220	7,200
	1 1/2 inch	450	2,800	4,750	6,520	600	1,100	2,260	3,660	4,440	6,050	8,400
	1 3/4 inch	450	2,800	4,840	7,500	600	1,100	2,330	3,780	4,780	6,590	9,182
	2 inch	450	2,800	5,500	7,500	600	1,100	2,400	3,800	5,200	7,000	10,000
Dimensions	A (in.)	2 7/8	11 7/16	14 1/2	15 7/8	10 5/16	11 15/16	11 15/16	12	14 1/8	14 1/8	14 1/8
	B (in.)	9 1/2	11 13/16	12	14	9 9/16	10 13/16	14	18 1/4	20 1/2	25 1/16	34 1/16
	C (in.)	10 1/4	16 1/16	19 5/8	23 7/8	17 1/4	21 1/2	24 3/16	25 15/16	29	30 3/16	31 3/16
	Weight (lbs.)	40	235	374	586	167	291	401	514	796	992	1,357

Notes: Material Thickness: Lifting capacity is lower on thinner materials. 3. NR - Not recommended. All specifications are subject to change without notice.

Lifting Magnet Considerations

Load Factors

Thin sheets, rough and irregular surfaces, odd shapes, and scale all affect holding power adversely and must be considered in establishing a safety factor. The magnet must be positioned on the load's center of gravity. Tilted or unbalanced loads significantly affect the holding power of the magnet.

Capacity

Maximum attractive force is approximately twice the rated lifting capacity. Capacity ratings listed are on flat, clean, polished steel plates with the magnet face in full contact with the load surface. The load factors listed should be taken into account when determining appropriate safety factors for a given load. A minimum three-to-one safety factor must be applied based on the actual breakaway force for a given load.



Carbon Content

Magnet capacity is based on lifting low-carbon steel. Materials containing less iron and more carbon will reduce lifting capacity.

Surface Condition (Air Gap)

Paint, coatings, scale, ice, or other materials between the load surface and the magnet will adversely affect the holding power of the magnet. The magnet face and load surface should be clean and smooth for safe lifting.

Sagging and Unsupported Overhang

The holding power of a magnet is rated with the pull of the load perpendicular to the face of the magnet. Sagging or bending of the load at the ends causes a force that is not perpendicular to the magnet face. This bending causes a peeling action that may strip the load off the magnet. To ensure the overhang of a flexible load falls within acceptable limits, refer to the chart below. Beyond these limits, multiple magnets will be required.

UNSUPPORTED OVERHANG	12"	18"	24"	30"	36"	48"	60"	72"
MATERIAL THICKNESS	AMOUNT OF SAG IN MATERIAL CAUSED BY ITS OWN WEIGHT (in)							
22 Ga. (0.0299")	11/32	1 11/16	5 5/16	13 5/32	UNSAFE	UNSAFE	UNSAFE	UNSAFE
18 Ga. (0.0478")	1/8	11/16	2 3/32	5 5/32	10 5/8	UNSAFE	UNSAFE	UNSAFE
16 Ga. (0.0598")	3/32	7/16	1 11/32	2 9/32	6 3/4	21 9/16	UNSAFE	UNSAFE
14 Ga. (0.0747")	1/16	9/32	7/8	2 1/8	4 3/8	13 13/16	UNSAFE	UNSAFE
11 Ga. (0.120")	...	3/32	11/32	13/16	1 11/16	5 11/32	13 1/32	UNSAFE
3/16	...	1/16	1/8	5/16	11/16	2 3/32	5 1/8	10 5/8
1/4	...	1/32	3/32	3/16	3/8	1 7/32	2 15/16	6 3/32
5/16	...	...	1/16	1/8	1/4	25/32	1 7/8	3 29/32
3/8	...	...	1/32	3/32	5/32	17/32	1 15/16	2 23/32
1/2	...	...	...	1/16	3/32	5/16	3/4	1 17/32
3/4	...	...	...	...	1/16	1/8	5/16	11/16

Service, Repair & Certification

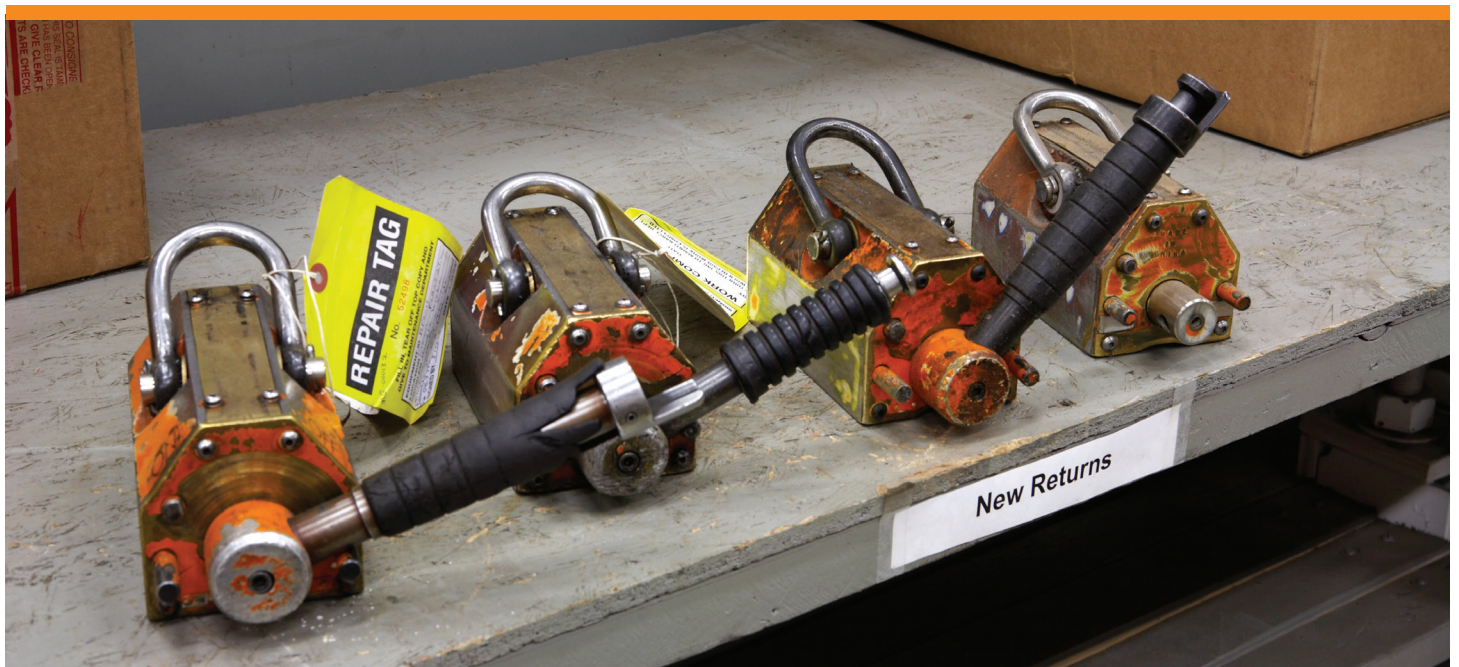
Eriez lift magnets are designed and built to meet the ASME B30.20 safety standard. Eriez can inspect your magnets to ensure they are performing as designed and remain in compliance.

Eriez certified repairs come with a one-year “As New” warranty.

Our Procedure Includes

- Inspection of lift magnet surface and all other parts
- Resurfacing of poles
- Repair/replacement of any damaged or missing parts
- Replacement of required warning labels and capacity markings
- Load testing and certification

Refer to ASME Standard B30.20 for inspection and operating procedures of close proximity operated lifting magnets.



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Note: Some safety warning labels or guarding may have been removed before photographing this equipment. Eriez, Eriez Flotation and Eriez Magnetics are registered trademarks of Eriez Manufacturing Co., Erie, PA.

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