

REL

REL series lifting magnets are suitable for handling rebar and rolled structural bundles. MAG Magnetics offers a comprehensive range of standard and custom E-polar magnet designs, with configurable options to meet specific customer requirements. REL series can be equipped with special extended pole shoes to increase effective load contact. These magnets can be used in groups, with various types of suspension systems depending on the application. The size and number of magnets depend on factors such as the weight and length of the bundle and the number of bundles to be lifted per layer. The magnet coil is wound with insulated aluminum strips using high-grade insulating materials. For special applications, anodized aluminum strips or copper conductors can be used. The coil is securely fixed within the housing using a special compound resin with excellent thermal conductivity. The magnet core circuit is constructed from low-carbon steel with high magnetic permeability. To extend the service life of the magnet, the control panel monitors temperature and duty factor of the Magnet, and the rectifier is protected against output short-circuit incidents. Accessory equipment includes spreader beams, battery backup devices, cable reels, suspension chains, and power supply sockets.

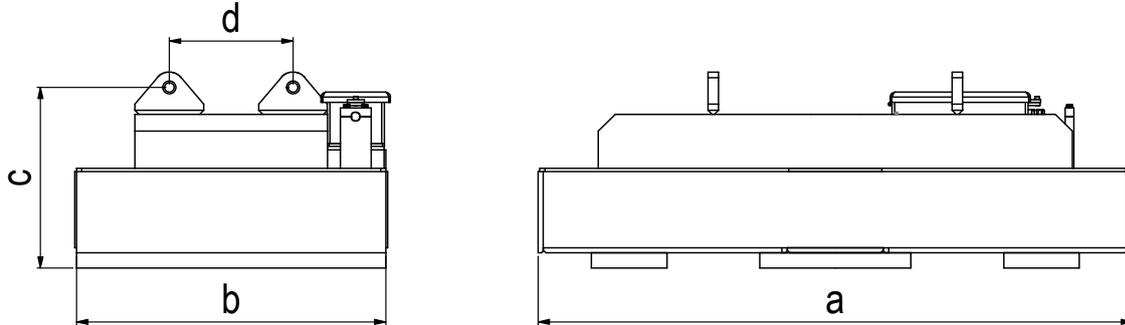
REL Feature and Applications

- The bundles remain undamaged and free from tearing or ripping during handling.
- Efficient design allows the crane operator to manage the entire process independently.
- Bundles can be arranged to maximize space efficiency.
- E-pole field design ensures maximum holding power on irregular shapes
- Weather-tight welded construction
- The magnet has a duty factor of 50% for continuous operation, which can be increased to 60% or 75% for high-rate operations.
- Available with pole shoes to provide wider load contact

AC/DC Rectifier

DC power supplies are typically installed at fixed locations, such as base-mounted on overhead cranes, and are sized based on DC output power capacity. MAG standard enclosures are rated IP54; however, the required ingress protection (IP) rating should be selected based on the site environment to ensure the unit remains dry and free from dust. All DC power supplies can provide various control and monitoring functions, such as local/remote power on/off switching, voltage and current metering, a microprocessor-based maintenance diagnostics package, and emergency power systems (backup batteries).





E-Polar Lifting Magnet											
Model	Magnet Cold Wattage	Magnet rated voltage	Dimensions				Chain Suspension Parts W.L.L	Weight Approx.	Duty Factor at 10 min.	Max. Breakaway Force (U/300)	Max. Lifting Capacity with SF 2 (magnet warm)
			a	b	c	d					
	kw	Vdc	mm	mm	mm	mm	kg	kg	%	kgf	kgf
REL 35-40	2.7	110	834	578	340	450	6,400	700	60	13,021	6,510
REL 35-60	3.5			778	340	600	11,000	975		19,318	9,659
REL 35-80	4.5			978	340	750	16,000	1,246		26,041	13,021
REL 35-100	5.6	220	834	1,178	340	900	16,000	1,515	60	32,551	16,276
REL 35-120	6.2			1,378	345	1,000	20,000	1,816		38,636	19,318
REL 40-40	4.4	110	1,009	603	390	450	11,000	1,034	60	18,322	9,161
REL 40-60	5.6			803	405	600	16,000	1,479		27,483	13,742
REL 40-80	6.8			1,003	395	750	20,000	1,855		36,645	18,322
REL 40-100	8.1	220	1,009	1,203	395	900	28,000	2,258	60	45,806	22,903
REL 40-120	9.3			1,403	400	1,000	28,000	2,696		54,967	27,483
REL 40-140	10.4			1,603	405	1,200	32,000	3,137		64,128	32,064
REL 55-40	6.3	220	1,291	629	515	500	16,000	1,920	60	27,422	13,711
REL 55-60	8.2			829	510	600	20,000	2,624		41,133	20,567
REL 55-80	9.8			1,029	510	750	28,000	3,348		54,844	27,422
REL 55-100	11.4			1,229	510	900	32,000	4,075		68,555	34,278
REL 55-120	12.6			1,429	500	1,000	40,000	4,719		82,266	41,133
REL 55-140	14.3			1,629	510	1,200	44,000	5,530		95,977	47,989