

# RBL

RBL series lifting magnets are suitable for handling slabs, blocks, billets, steel coils, pipe bundles, rebar, tubing, and H-beams.

MAG Magnetism offers a comprehensive range of standard and custom bi-polar magnet designs, with configurable options to meet specific customer requirements. These advanced designs are capable of handling higher-temperature materials more efficiently than standard rectangular magnets, thanks to the strategic positioning of the magnet coil.

These magnets can be used individually or in groups, with various types of suspension systems depending on the application. The size and number of magnets depend on factors such as the thickness of the steel profiles, the diameter and length of the bundle, and the number of bundles to be lifted per layer.

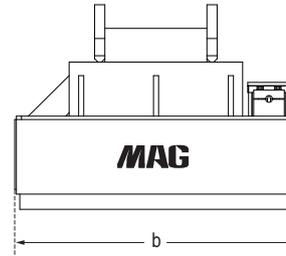
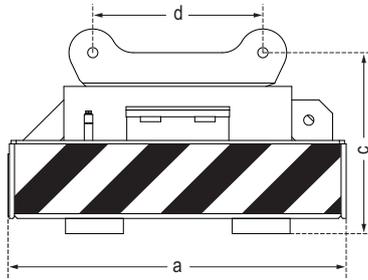
The magnet coil is wound with insulated aluminum strips using high-grade insulating materials. For special applications, anodized aluminum strips or copper conductors can be used. The coil is securely fixed within the housing using a special compound resin with excellent thermal conductivity. The magnet 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.

## Features 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 and stacked to maximize space efficiency.
- Two-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.
- Magnets for hot material handling (up to 600°C) are available, featuring special pole shoes designed specifically for high-temperature applications.
- Available with pole shoes to provide wider load contact.





Rectangular Bi-Polar Lifting Magnet " RBL -P "												
Model	Magnet Cold Wattage	Magnet rated voltage	Dimensions				Pole Shoes Length by EU %60	Chain Suspension Parts W.L.L	Weight Approx.	Duty Factor at 10 min.	Max. Breakaway Force ( U/300 ) ( magnet warm )	Max. Lifting Capacity with SF 2 ( magnet warm )
			a	b	c	d						
	kw	Vdc	mm	mm	mm	mm	mm	kg	kg	%	kgf	kgf
RBL 30-20P	0.9	80		351	308		340		162		2,729	1,365
RBL 30-40P	1.35			551	306		540	4,000	271		5,459	2,729
RBL 30-60P	1.8	110	421	751	297	220	740		371	60	8,188	4,094
RBL 30-80P	2.3			951	299		940		480		10,918	5,459
RBL 30-100P	2.7	220		1,151	302		1,140	8,000	593		13,647	6,823
RBL 30-120P	3.2			1,351	296		1,340		689		16,376	8,188
RBL 35-40P	1.75	110		578	317		558	4,000	363		6,439	3,220
RBL 35-60P	2.25			778	316		758	6,400	503		9,659	4,829
RBL 35-80P	2.95		506	978	319	280	958		646	60	12,879	6,439
RBL 35-100P	3.5	220		1,178	317		1,158	11,000	782		16,098	8,049
RBL 35-120P	4.1			1,378	314		1,358		916		19,531	9,765
RBL 40-40P	2.75	110		603	361		583	6,400	524		9,161	4,581
RBL 40-60P	3.55			803	370		783		740		13,742	6,871
RBL 40-80P	4.45		606	1,003	371	350	983	11,000	947	60	18,322	9,161
RBL 40-100P	5.2	220		1,203	361		1,183		1,127		22,903	11,451
RBL 40-120P	6.0			1,403	361		1,383	16,000	1,328		27,483	13,742
RBL 40-140P	6.7			1,603	366		1,583		1,548		32,064	16,032
RBL 55-40P	3.95			629	475		600	11,000	964		13,711	6,856
RBL 55-60P	5.0			829	472		800		1,319		20,567	10,283
RBL 55-80P	6.0	220	760	1,029	465	480	1,000	17,000	1,657	60	27,422	13,711
RBL 55-100P	7.2			1,229	465		1,200		2,012		34,278	17,139
RBL 55-120P	8.1			1,429	462		1,400	26,000	2,355		41,133	20,567
RBL 55-140P	9.0			1,629	462		1,600		2,710		47,989	23,994
RBL 65-60P	6.2			893	504		863	17,000	1,775		24,876	12,438
RBL 65-80P	7.35			1,093	502		1,063		2,236		33,168	16,584
RBL 65-100P	8.6	220	951	1,293	499	600	1,263	26,000	2,687	60	41,460	20,730
RBL 65-120P	9.7			1,493	490		1,463		3,102		49,752	24,876
RBL 65-140P	10.9			1,693	497		1,663	32,000	3,609		58,044	29,022
RBL 75-80P	8.5			1,092	568		1,062	21,000	2,856		39,021	19,511
RBL 75-100P	9.8	220	1,048	1,292	563	700	1,262	28,000	3,429	60	48,776	24,388
RBL 75-120P	10.9			1,492	564		1,462	35,000	4,042		58,532	29,266
RBL 75-140P	12.35			1,692	571		1,662		4,686		68,287	34,143