

Rectangular Lifting Magnet RTL

RTL series lifting magnets come in a range of models, sizes, and strength, making them ideal for handling slabs, blocks, billets, thick single plates, or multiple bundled plates. The magnet coil is wound with insulated aluminum straps using high-grade insulating materials. For special applications, anodized aluminum strips or copper conductors can be used. The coil is securely encased in the housing with a special compound resin that offers excellent heat conductivity. The magnet core circuit is constructed from low-carbon steel with high magnetic permeability.

Mag magnetics supplies special RTL-series lifting magnets designed for handling high-temperature loads up to 600°C. These magnets can be equipped with specially designed pole shoes to improve contact efficiency across a range of applications. The breakaway force of each magnet is determined based on the material thickness and the air gap. For the safe handling of flexible loads such as metal sheets, the proper positioning of the magnets on the load is critically important. The magnet has a duty factor of 50% for continuous operation, which can be increased to 60% or 75% for high-rate operations.

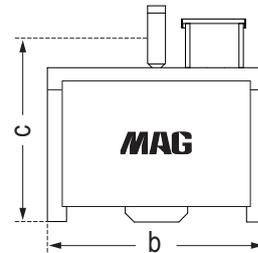
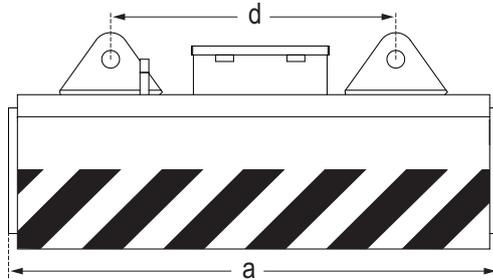
AC/DC Rectifier

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).



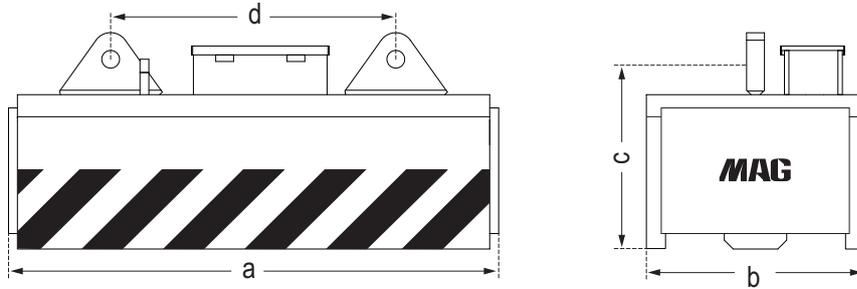
May 2025

Rectangular Lifting Magnet **RTL**



Rectangular Lifting Magnet " RTL "											
Model	Magnet Cold Wattage	Magnet rated voltage	Dimensions				Chain Suspension Parts W.L.L	Weight Approx.	Duty Factor at 10 min.	Max. Breakaway Force (b/300)	Max. Lifting Capacity with SF 2 (magnet warm)
			a	b	c	d					
	kw	Vdc	mm	mm	mm	mm	kg	kg	%	kgf	kgf
RTL 25-60	0.40	30	620	240	210	440	3,000	151		4,494	2,247
RTL 25-80	0.60		820		205	600	4,200	193		6,001	3,000
RTL 25-100	0.85	40	1,020		238	700		272		8,161	4,081
RTL 25-125	1.00		1,270		221	850		309	50	8,975	4,488
RTL 25-140	1.20		1,420	235	240	950	6,600	372		10,414	5,207
RTL 25-160	1.35	110	1,620		243	1,100		429		12,042	6,021
RTL 25-180	1.45		1,820		229	1,150	9,000	459		13,798	6,899
RTL 25-200	1.60		2,020		224	1,250		499		15,556	7,778
RTL 35-80	1.40		820	350	297	600		445		10,979	5,489
RTL 35-100	1.90		1,020		302	700	9,000	549		13,867	6,934
RTL 35-125	2.10		1,270		292	850		655		16,312	8,156
RTL 35-140	2.45	110	1,420	340	286	950	11,200	719	50	18,845	9,422
RTL 35-160	2.80		1,620		282	1,100		812		22,240	11,120
RTL 35-180	3.10		1,820		280	1,150	13,300	909		25,505	12,752
RTL 35-200	3.35		2,020		278	1,250		1,005		28,903	14,451
RTL 50-100	2.35		1,040		350	700	11,200	949		20,157	10,078
RTL 50-125	3.00	110	1,290	490	349	850		1,165		25,688	12,844
RTL 50-140	3.25		1,440		334	950	17,000	1,214	50	26,699	13,350
RTL 50-160	3.55		1,640		344	1,100		1,426		31,876	15,938
RTL 50-180	4.30	220	1,840	480	335	1,150	21,000	1,554		36,536	18,268
RTL 50-200	4.80		2,040		335	1,250		1,726		41,741	20,871

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			a	b	c	d					
	kw	Vdc	mm	mm	mm	mm	kg	kg	%	kgf	kgf
RTL 60-100	3.35	220	1,050	590	380	700	17,000	1,283	50	26,223	13,112
RTL 60-125	4.15		1,300		381	850		1,559		32,597	16,299
RTL 60-140	4.45		1,450		369	950		1,677		35,881	17,940
RTL 60-160	5.00		1,650	580	375	1,100	21,000	1,917		39,832	19,916
RTL 60-180	5.50		1,850		375	1,150		2,140		44,417	22,208
RTL 60-200	5.75		2,050		371	1,250	30,000	2,338		48,393	24,197
RTL 60-220	6.50		2,250		365	1,300		2,530		54,409	27,205
RTL 70-100	4.00	220	1,050	690	436	700	17,000	1,756	50	30,033	15,017
RTL 70-125	4.65		1,300		421	850		2,074		38,046	19,023
RTL 70-140	5.10		1,450		420	950	21,000	2,278		40,307	20,154
RTL 70-160	5.45		1,650		415	1,100		2,542		44,318	22,159
RTL 70-170	5.90		1,750	680	419	1,100		2,698		46,152	23,076
RTL 70-180	6.30		1,850		417	1,150	30,000	2,840		49,377	24,688
RTL 70-200	6.80		2,050		418	1,250		3,162		56,837	28,418
RTL 70-220	7.20		2,250		411	1,300		3,418		63,471	31,735