

# U-Polar Lifting Magnet RUL

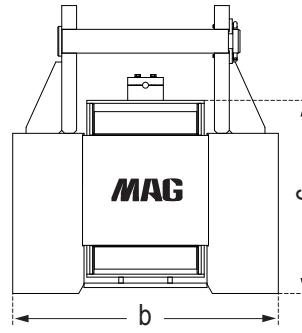
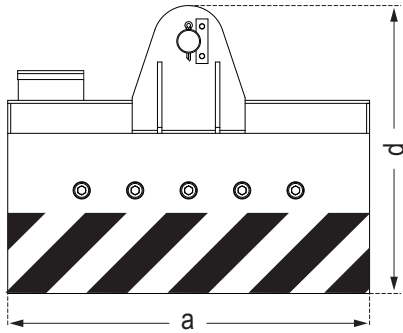
RUL series lifting magnets offer a wide range of applications and are suitable for handling billets, blooms, plates, structural shapes, pipes, coiled strips, tubes, and round bars. The RUL series can be equipped with specially extended pole shoes to increase effective contact for specific applications, allowing the handling of irregularly shaped loads that are difficult to manage using conventional methods. 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. The maximum breakaway force listed in the table is based on mild steel with a machined surface. A derating safety factor must always be applied, as actual performance can vary depending on surface condition, contact area, material thickness, and load length.

Mag magnetics supplies special RUL-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. A complete range of designs is available in various models, capacities, sizes, and magnetic strengths, suitable for transporting heavy and hot steel blocks, plates, and blooms in rolling mills, ports, and foundries.

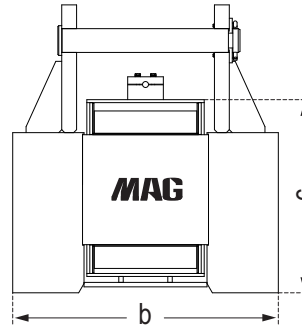
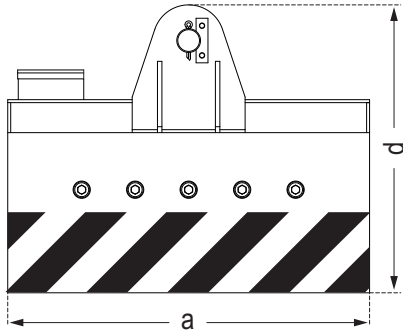
## AC/DC Rectifier

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).





Rectangular U-Polar Lifting Magnet " RUL "											
Model	Magnet Cold Wattage	Magnet rated voltage	Dimensions				Chain Suspension Parts W.L.L	Weight Approx.	Duty Factor at 10 min.	Max. Breakaway Force	Max. Lifting Capacity with SF 2:1 ( magnet warm )
			a	b	c	d					
	kw	Vdc	mm	mm	mm	mm	Kg	Kg	%	Kg	Kg
RUL 15/40	0.3		430		260	310		95		2,755	1,377
RUL 15/60	0.4	30	620	150	245	295	4,000	129	60	4,132	2,066
RUL 15/80	0.5		820		240	290		163		5,509	2,755
RUL 20/60	0.7		620		255	305	4,000	191		5,684	2,842
RUL 20/80	0.9	40	820	200	250	300		242	60	7,579	3,790
RUL 20/100	1.1		1,020		250	300	6,400	296		9,474	4,737
RUL 30/60	1.2	60	620		290	370	6,400	330		8,879	4,440
RUL 30/80	1.6		830	300	360	440		431	60	11,839	5,920
RUL 30/100	2.0	110	1,030		360	440	11,000	537		14,969	7,484
RUL 30/120	2.3		1,220		345	425		613		17,963	8,981
RUL 40/60	2.1		680		490	590		740		13,551	6,775
RUL 40/80	3.2	110	920		590	690	11,000	959		18,067	9,034
RUL 40/100	3.4		1,100	400	555	655		1,111	60	22,584	11,292
RUL 40/120	4.0	220	1,300		550	650	17,000	1,307		27,101	13,551
RUL 40/140	4.4		1,480		520	620		1,432		31,618	15,809
RUL 50/80	3.5	110	900		595	715	11,000	1,215		20,995	10,498
RUL 50/100	3.9		1,080		585	705	17,000	1,458		26,244	13,122
RUL 50/120	4.5	220	1,260	500	555	675		1,652	60	31,493	15,746
RUL 50/140	5.0		1,450		535	655	21,000	1,846		36,742	18,371
RUL 50/160	5.5		1,640		525	645		2,081		41,990	20,995
RUL 60/80	4.0		900		640	760	17,000	1,589		25,194	12,597
RUL 60/100	4.4		1,070		610	730		1,854		31,493	15,746
RUL 60/120	5.0		1,250		580	700	21,000	2,114		37,791	18,896
RUL 60/140	5.6	220	1,440	600	570	690	26,000	2,441	60	44,090	22,045
RUL 60/160	6.1		1,630		550	670		2,684		50,388	25,194
RUL 60/180	6.7		1,830		550	670	32,000	3,023		56,687	28,344
RUL 60/200	7.2		2,030		540	660		3,268		62,986	31,493



Rectangular U-Polar Lifting Magnet " RUL "

Model	Magnet Cold Wattage	Magnet rated voltage	Dimensions				Chain Suspension Parts W.L.L	Weight Approx.	Duty Factor at 10 min.	Max. Breakaway Force	Max. Lifting Capacity with SF 2:1 ( magnet warm )
			a	b	c	d					
	kw	Vdc	mm	mm	mm	mm	Kg	Kg	%	Kg	Kg
RUL 70/80	4.5	220	910	700	690	810	17,000	2,058	60	30,570	15,285
RUL 70/100	5.0		1,080		660	780	21,000	2,418		38,424	19,212
RUL 70/120	5.6		1,260		630	750	26,000	2,772		46,109	23,054
RUL 70/140	6.1		1,460		620	740	32,000	3,167		53,793	26,897
RUL 70/160	7.0		1,640		600	720		3,538		61,478	30,739
RUL 70/180	7.3		1,840		590	710	40,000	3,889		69,163	34,581
RUL 70/200	8.1		2,040		590	710		4,322		76,848	38,424
RUL 80/80	4.9	220	890	800	700	820	17,000	2,435	60	34,155	17,077
RUL 80/100	5.6		1,060		680	800	26,000	2,927		42,693	21,347
RUL 80/120	6.0		1,240		640	760		3,301		51,232	25,616
RUL 80/140	6.7		1,440		630	750	32,000	3,779		59,770	29,885
RUL 80/160	7.5		1,620		600	720	40,000	4,124		68,309	34,155
RUL 80/180	8.0		1,820		600	720		4,657		76,848	38,424
RUL 80/200	8.8		2,020		590	710	44,000	5,053		85,386	42,693
RUL 90/80	5.3	220	880	900	730	850	21,000	2,920	60	38,212	19,106
RUL 90/100	6.0		1,040		690	810	26,000	3,419		48,030	24,015
RUL 90/120	6.6		1,230		660	780	32,000	3,918		57,636	28,818
RUL 90/140	7.3		1,420		640	760	40,000	4,444		67,242	33,621
RUL 90/160	7.8		1,620		630	750		4,987		76,848	38,424
RUL 90/180	8.7		1,820		630	750	44,000	5,624		86,454	43,227
RUL 90/200	9.6		2,000		600	720		5,985		96,060	48,030