

Circular Lifting Magnet MCA

MCA Series Lifting Magnet technology has obtained base on many years of experience and optimized by computerized calculation methods in order to reach to the strong Magnetic Fields, Robust body structures, and high safety performance. MCA lifting magnet with deep magnetic flow shall created by the magnet coil, substantially increased the operation capacity compared by magnet weight to utilize capacity of the crane with maximum Load handling. MAG Magnetics lifting magnets designed in standard deep and extra deep-field class to cover difference applications. Standard deep-field scrap magnets are typically used in scrap processing and recycling yards. Extra deep field models are used to load electric arc furnace and transportation vessels such as ships and rail cars. General scrap Iron can be handled by either standard deep-field or extra deep-field. Shredded or bundled scrap iron is the best handled by an extra deep-field magnet.

MCA Features and Applications

- Scrap and Pig Iron handling is principal application of the MCA lifting magnets.
- Standard exciter coil winding are wound by Aluminum Strip conductor with Fiber Glassed covered and in special cases can be furnished by Anodized Aluminum Strip or Copper conductor.
- The coil of the magnet has fixed by compound resin with excellent heat conductivity coefficient.
- To increase the life time of the magnet, Rectifier panel equipped with temperature monitor and duty factor relays and protected against output short circuit accident.



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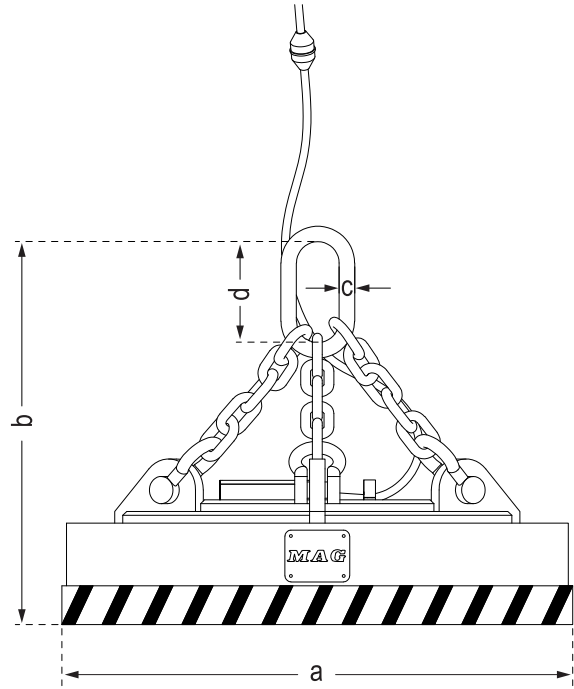
- The accessories equipment includes of cable reel, suspension chains, and power supply socket.
- MAG Magnetics supply special lifting magnets for skull cracker ball handling, hot material handling, direct Furnace charging and water proof type for under water services.
- The magnet duty factor is 50% for continuous operation and could exceed to 75% for an 8 hour single shift operation.
- The standard operating voltage is 220 VDC
- Lifting capacities in the technical table are average values and depends on shape, alloy, distribution and piling of the material.
- The cable terminal box with robust construction includes metal body, terminal boards, cable glands, cable clamp, and watertight cover with head screws.

switching, voltage/current metering, microprocessor based maintenance diagnostics package, and emergency power systems (back up battery) as options.

Rectifier

DC power supplies are normally used on fixed locations such as base mounted to an overhead crane, and are sized based on AC input voltage, DC output voltage, and KW output.

MAG standard enclosures are (IP54), but it is important to note that the environment of the site determines the required ingress protection (IP) rate in order to keep the unit dry and dust-free. All DC power supplies includes number of controls and monitoring function such as: local/remote power on/off



Model	Magnet Cold Wattage	Dimensions				Chain Suspension Parts W.L.L	Weight Approx.	Approx. Max lifting capacity (Kg) in operation			
		a	b	c	d			Slabs Ingot	Pigs	Broken Solid Scraps	Steel Turnings
	KW	mm	mm	mm	mm	Kg	Kg	7.8 t/m ³	4.4 t/m ³	0.8 - 1.5 t/m ³	1.2 t/m ³
MCA 90	4	930	683	25	180	6,400	740	6,400	360	90 - 145	130
MCA 100	4.5	1,030	761	25	180	11,000	975	8,800	500	124 - 210	165
MCA 110	6	1,130	866	31	225	21,700	1,300	12,200	700	160 - 280	215
MCA 130	8	1,330	980	38	270	21,700	1,950	16,950	1,040	255 - 430	330
MCAD 130	8.5	1,330	922	31	225	16,000	1,650	12,250	630	220 - 410	355
MCA 140	8.6	1,430	1,048	38	270	21,700	2,300	19,000	1,210	290 - 490	420
MCAD 140	9.9	1,430	1,015	31	225	16,000	1,950	13,100	710	260 - 450	425
MCA 150	9.5	1,540	1,099	44	300	28,400	2,850	22,000	1,440	340 - 580	510
MCAD 150	11	1,530	1,091	31	225	16,000	2,350	15,250	855	310 - 540	495
MCAD 170	14	1,740	1,277	44	300	21,700	3,600	21,150	1,250	480 - 800	710
MCAS 170	18	1,740	1,492	50	350	44,300	5,400	40,150	2,400	750 - 1,100	980
MCAD 180	16	1,840	1,377	44	300	28,400	4,150	23,250	1,450	540 - 900	920
MCAS 180	20	1,840	1,532	50	350	44,300	6,300	43,750	2,600	786 - 1,300	1,220
MCAD 190	18	1,940	1,460	50	350	28,400	4,800	26,250	1,760	635 - 1,090	1,030
MCAS 190	22	1,940	1,605	50	350	44,300	7,600	50,450	2,950	890 - 1,540	1,335
MCAD 200	20	2,040	1,495	50	350	44,300	5,450	28,650	2,020	710 - 1,200	1,150
MCAS 200	23.5	2,040	1,673	50	350	44,300	8,700	56,700	3,350	1,000 - 1,770	1,450
MCAD 220	27	2,240	1,595	50	350	44,300	7,000	36,400	2,890	1,070 - 1,800	1,600
MCAS 220	27.5	2,240	1,752	50	350	44,300	11,250	66,350	3,800	1,200 - 2,100	1,900



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