



## RECTANGULAR LIFTING MAGNETS, Type AMH

for lifting of hot material like billets, slabs, etc.



This type lifting magnet has been designed for lifting of hot material up to 650°C, where we have to face the problem of strong heating up of magnet, caused by 3 factors. First, by heat being transferred to magnet by direct contact to load, second, by heat convection and third, by unwanted waste heat of coil. So it is essential to reduce heating up of magnet, which will be done by installation of second bottom plate creating an air-gap, to protect coil against heat convection. Furthermore we will install bigger size coils with higher resistance, resulting in magnets with reduced nominal power and therefore reduced internal waste heat of coil but with same magnetic strength, compared to magnets for cold application with less coil. This design in combination with making use of high-quality type of coils (anodized aluminum strip) and insulation casting compound (silicone) with best heat resistance, is resulting in magnets with

best performance and life-expectance for this high-demanding application. This data sheet only shows small range of different sizes being manufactured by us, once having got description of your application, we will offer most suitable type of magnet from technical and economical point of view, tailored to your specific requirements.

AMH	nominal power kW	nominal voltage VDC	slab lifting capacity* kg	pull-off strength* daN	dead weight kg	magnetic field depth mm	dimensions			
							L1 mm	L2 mm	W mm	H mm
60/53/32	1,6	110	8.000	16.000	600	60	600	620	530	320
60/60/37	2,0	110	11.000	22.000	850	80	600	624	600	370
60/69/41	2,2	110	13.500	27.000	1.150	100	600	630	690	410
80/50/33	2,1	110	11.000	22.000	800	60	800	820	500	330
80/58/38	2,4	110	14.500	29.000	1.120	80	800	824	580	380
80/66/42	2,7	110	18.000	36.000	1.480	100	800	830	660	420
100/50/33	2,5	110	13.500	27.000	970	60	1.000	1.024	500	330
100/58/38	2,9	110	18.000	36.000	1.380	80	1.000	1.030	580	380
100/67/39	3,3	110	23.000	46.000	1.720	100	1.000	1.030	670	390
120/51/32	3,2	110	16.500	33.000	1.130	60	1.200	1.224	510	320
120/58/36	3,6	110	22.000	44.000	1.600	80	1.200	1.230	580	360
120/66/39	3,9	110	27.500	55.000	2.050	100	1.200	1.240	660	390
140/50/35	3,6	220	19.000	38.000	1.400	60	1.400	1.430	500	350
140/57/39	3,9	220	25.500	51.000	1.930	80	1.400	1.440	570	390
140/64/42	4,5	220	32.000	64.000	2.500	100	1.400	1.450	640	420
160/48/38	3,9	220	22.000	44.000	1.680	60	1.600	1.630	480	380
160/55/42	4,5	220	29.000	58.000	2.320	80	1.600	1.640	550	420
160/62/45	5,0	220	36.000	72.000	2.950	100	1.600	1.650	620	450

\* mentioned slab lifting capacity and pull-off strength is referring to optimum conditions in accordance to German standard DIN-VDE 0580 (width / 300); effective performance will vary with specific operating conditions