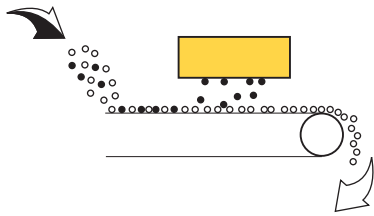


SME



Used for pick up and removing ferrous metal parts from the bulk materials such as coal, stone, fertilizers, slag, gypsum, ores and similar in order to protect crushers, pulverizers, mills, conveyor belts and other costly equipment in processing plants against too much wear and damage.

SME Feature and Applications

These Magnets are designed for installation either in-line over the discharge head pulley or for installation across the conveyor belts, vibratory feeders or gravity chutes. Mounting the suspension magnets in-line above the discharge end of the conveyor increases the efficiency of the magnet. Suspension lugs and one set of turn buckles and suspension wire rap are normally supplied.

Important factors in SME separator selection should be considered as Material details(size,type and density), amount and minimum size of tramp iron for removing, Conveyor details (belt width and speed), chute width , Bulk material capacity (t/hr or m3/hr) and burden depth , type of machinery to be

protected, Angle trough idlers, Head pulley details (diameter and material) at in-line installation, Ambient temp & Available power supply AC.

DC supply is required for the excitation coils. The rectifiers are dimensioned for 415V/50Hz. The units can also be supplied for other voltages and frequencies. The magnets can be used for normal operating conditions in an ambient temp range between -20 and +40 degree centigrade. Where extraordinary operating conditions prevail such as high ambient temperatures (over 40°C), high air humidity, chemically aggressive atmosphere, severe dust pollution, handling of wet and sticky material or very large tramp iron, special magnets are required.

Advantage of Oil Cooling

Oil cold SME separators in comparing with natural air cold have smaller dimensions and lower weight. The oil of the magnet box allowed the coil's heat to dissipate better from inside of the magnet. Oil cold electromagnets have higher electrical power consumption, and the higher surface temperature, yet it still have the same temperature inside the coil. The oil volume will expand when it heat, Therefore oil cold electromagnets have an expansion container attached to them.

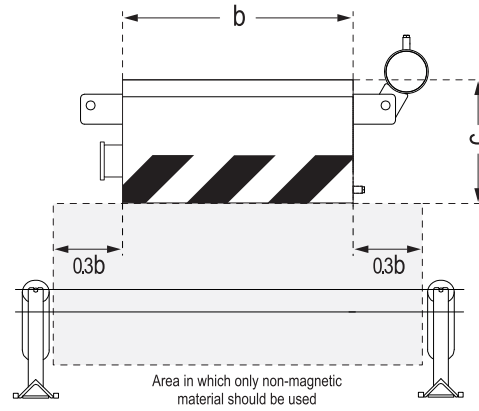
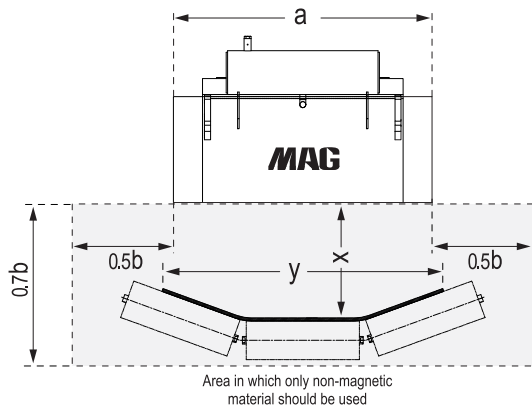
Extended Poles

Extended poles over the entire length of the magnet guarantee secure and trouble-free removal of ferrous items.

Dimensioning Notes

Iron parts needs to be in a magnetic field for at least 0.4-0.5 seconds in order to be magnetized and pulled out of the material flow. The size of the magnet box must be selected accordingly in order to secure enough dwelling time.





Model	Magnet Cold Wattage	Max. Working Distance x	Belt Width y		Magnet Dimensions			Magnet Weight Approx.
			Installation Position		a	b	c	
	kw	mm	Across	Inline	mm	mm	mm	kg
SME 25/80	2.5	250	800	650	630	650	480	866
SME 25/100	3.1		970		1,108			
SME 25/120	3.6		1,160		1,387			
SME 25/140	4.0		1,300		1,638			
SME 25/160	4.6		1,500		1,997			
SME 30/80	3.1	300	770	800	630	750	520	1,166
SME 30/100	3.6		920		1,506			
SME 30/120	4.2		1,170		1,838			
SME 30/140	4.8		1,290		2,189			
SME 30/160	5.4		1,480		2,610			
SME 35/80	3.7	350	900	1,000	700	950	550	1,493
SME 35/100	4.3		1,070		1,901			
SME 35/120	5.0		1,260		2,252			
SME 35/140	5.7		1,450		2,688			
SME 35/160	6.5		1,650		3,139			
SME 40/100	4.4	400	950	1,000	1,010	950	580	1,956
SME 40/120	5.1		1,140		2,472			
SME 40/140	5.9		1,300		2,951			
SME 40/160	6.7		1,500		3,347			
SME 40/180	7.4		1,700		3,843			
SME 45/120	6.3	450	1,350	1,200	1,210	1,150	580	3,237
SME 45/140	7.1		1,520		3,855			
SME 45/160	8.1		1,700		4,471			
SME 45/180	8.7		1,830		5,008			
SME 50/120	6.6	500	1,270	1,200	1,300	1,150	610	3,489
SME 50/140	7.4		1,450		4,071			
SME 50/160	8.3		1,620		4,717			
SME 50/180	9.4		1,820		5,446			
SME 55/140	8.5	550	1,590	1,400	1,580	1,350	650	4,894
SME 55/160	9.5		1,750		5,628			
SME 55/180	10.5		1,950		6,515			
SME 55/200	11.3		2,070		7,200			
SME 60/140	9.9	600	1,760	1,600	1,600	1,550	710	6,154
SME 60/160	11.0		1,960		7,140			
SME 60/180	11.9		2,080		7,962			
SME 60/200	13.2		2,280		8,915			
SME 60/220	14.2		2,420		9,747			

