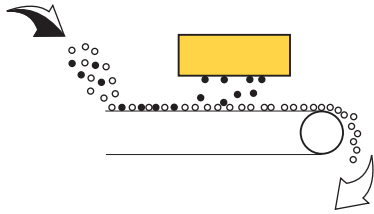


SME



SME magnet is used to pick up and remove ferrous metal tramp from bulk materials such as coal, stone, fertilizers, slag, gypsum, ores, and similar substances. This protects crushers, pulverizers, mills, conveyor belts, and other costly processing equipment from excessive wear and damage.

SME Feature and Applications

These magnets are designed for installation either inline above the discharge head pulley or across conveyor belts, vibratory feeders, or gravity chutes. Mounting the suspension magnets inline above the conveyor's discharge end enhances their efficiency. Suspension lugs, along with one set of turnbuckles and suspension wire ropes, are normally supplied.

Main factors to consider when selecting an SME separator include: material characteristics (size, type, and density); the amount and minimum size of tramp iron to be removed; conveyor specifications (belt width and speed); angle of trough idlers; chute width; bulk material capacity (t/h or m³/h); burden depth; head pulley details (diameter and material) for inline installations; type of machinery to be protected; ambient temperature; and available AC power supply. Tramp iron must remain within the magnetic field for at least 0.4 to 0.5 seconds to become fully magnetized and effectively separated from the material flow. Therefore, the magnet box must be properly sized to ensure adequate dwell time.

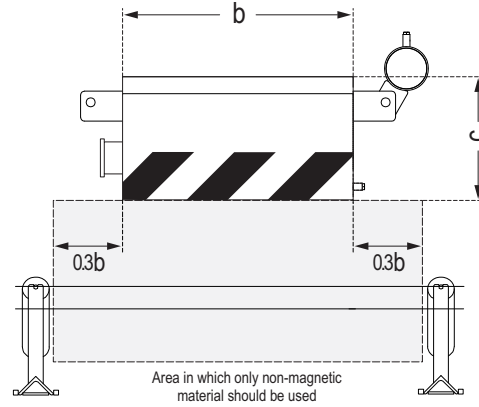
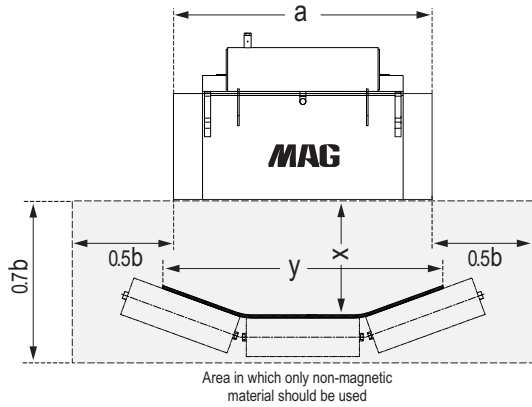
designed for 415V/50Hz, but units can be supplied for other voltages and frequencies upon request. These magnets are suitable for normal operating conditions within an ambient temperature range of -20°C to +40°C. For extreme operating environments such as high ambient temperatures (above 40°C), high humidity, chemically aggressive atmospheres, severe dust pollution, the handling of wet or sticky materials, or the presence of large tramp iron, special magnet designs are required.

Advantage of Oil Cooling

Oil-cooled SME separators, compared to naturally air-cooled models, feature smaller dimensions and reduced weight. The oil inside the magnet housing allows for more efficient heat dissipation from the coil. As the oil heats up and expands, SME equipped with an expansion tank to accommodate the increased oil volume.



Suspension Electromagnet SME



Electromagnet Suspension Separator " S " series								
Model	Magnet Cold Wattage	Max Working Distance "X"	Max Belt Width "Y" Installation Position		Magnet Dimensions			Magnet Weight Approx.
			Across	Inline	a	b	c	
	kw	mm	mm	mm	mm	mm	mm	kg
SME 20-80 S	2.3	200	800	800	750	750	380	564
SME 25-80 S	2.5	250	800	800	750	750	435	687
SME 25-100 S	2.75	250	1,000	800	920	750	435	755
SME 30-100 S	3.6	300	1,000	1,000	920	920	485	997
SME 35-100 S	3.7	350	1,000	1,000	920	920	510	1,220
SME 35-120 S	3.9	350	1,200	1,000	1,080	920	510	1,287
SME 40-120 S	4.7	400	1,200	1,000	1,080	1,080	535	1,766
SME 45-120 S	4.9	450	1,200	1,000	1,080	1,080	570	2,021
SME 45-140 S	5.25	450	1,400	1,000	1,250	1,080	560	2,099
SME 50-140 S	6.15	500	1,400	1,200	1,250	1,250	585	2,622
SME 55-140 S	6.50	550	1,400	1,200	1,280	1,250	620	2,993
SME 55-150 S	6.6	550	1,500	1,200	1,380	1,250	610	3,048
SME 60-150 S	7.50	600	1,500	1,400	1,380	1,380	635	3,751
SME 65-150 S	7.8	650	1,500	1,400	1,380	1,380	700	4,108
SME 65-160 S	8.1	650	1,600	1,400	1,500	1,380	675	4,152
SME 70-160 S	9.0	700	1,600	1,500	1,500	1,500	715	4,961
SME 75-160 S	9.4	750	1,600	1,500	1,500	1,500	780	5,409
SME 75-180 S	9.7	750	1,800	1,500	1,650	1,500	760	5,546
SME 80-180 S	11.3	800	1,800	1,600	1,650	1,650	840	6,835
SME 85-180 S	11.8	850	1,800	1,600	1,650	1,650	910	7,445
SME 85-200 S	12.3	850	2,000	1,600	1,830	1,650	890	7,662
SME 90-200 S	14.0	900	2,000	1,800	1,830	1,830	940	9,029
SME 95-220 S	16.75	950	2,200	2,000	2,000	2,000	1,050	10,732



May 2025