



AGGREGATE

EQUIPMENT SALES

MAGNETS



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AES now offers a complete line of AMPCO Minerals electro and rare earth permanent magnets, available in fixed and self-cleaning configurations, to meet the demands of your operation. With 25 years of experience serving the aggregate industry, AES brings the same trusted quality and responsive service to magnets that you've come to expect.

Electro Magnet (EM) & Electro Magnet Fixed (EMF) Magnets

The Electro Magnets (EM & EMF) are designed to proportionally remove ferrous substances from non-ferrous materials in a circuit. An AC/DC rectifier sends current to the magnet to generate the magnetic field. The self-cleaning magnet is attached to a frame and features a conveyor belt around the magnet, protected by a stainless-steel covering. Our magnets are air-cooled and do not require transformer oil, which can be harmful, making them environmentally friendly and a safer option for those maintaining them. The conveyor belt automatically unloads ferrous debris into a waste collection bin. We offer both fixed and self-cleaning Electro Magnets.



Fixed or Self-Cleaning

Conveyor Width

- 30 - 60 inches

Motor Power

- 3 - 7.5 hp

Technical Parameter Tables

Electro Magnet (EM) Self Cleaning

Model	Belt Width	Size (LxWxH)	Motor Power	Rectifier		Target Height	Magnetic Intensity	
	inch			inch	hp		kVa	V (DC)
EM30	30	80 x 60 x 29	3	5	135	10	68	680
EM36	36	86 x 65 x 29	5	9	230	12	75	750
EM42	42	95 x 71 x 29	5	9	230	12	85	850
EM48	48	98 x 77 x 29	5	11	230	14	78	780
EM54	54	105 x 84 x 30	7.5	12	230	14	93	930
EM60	60	117 x 90 x 31	7.5	15	230	16	105	1,050

Note: Gauss measurements are recorded at a fixed height above a standardized ferrous object. Actual readings will vary based on distance (air gap), surface finish, and the magnetic permeability of the object. These values are for reference only; field-testing is recommended for specific applications.

Electro Magnet Fixed (EMF)

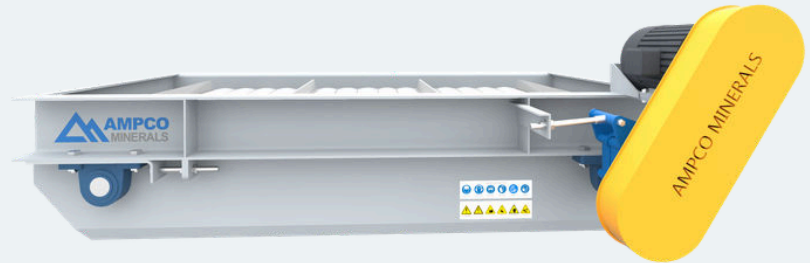
Model	Size (LxWxH)	Rectifier		Target Height	Magnetic Intensity	
	inch	kVa	V (DC)		inch	mT
EMF30	30 x 36 x 21	5	135	10	68	680
EMF36	36 x 42 x 21	9	230	12	75	750
EMF42	45 x 48 x 21	9	230	12	85	850
EMF48	48 x 54 x 21	11	230	14	78	780
EMF54	54 x 60 x 20	12	230	14	93	930
EMF60	66 x 66 x 21	15	230	16	105	1,050

Note: Gauss measurements are recorded at a fixed height above a standardized ferrous object. Actual readings will vary based on distance (air gap), surface finish, and the magnetic permeability of the object. These values are for reference only; field-testing is recommended for specific applications.



Rare Earth (RE) & Rare Earth Fixed (REF) Permanent Magnets

The fixed and self-cleaning permanent magnets generate a magnetic field by stacking rare earth magnets inside a box. These magnets can separate mixed ferrous material from non-ferrous material on conveyors and can be mounted either in line or cross-conveyor. These magnets are generally lighter in weight than their electric counterparts, making them easier to handle and requiring less support structure when mounting.



Fixed or Self-Cleaning

Conveyor Width

- 30 - 60 inches

Motor Power

- 3 - 5 hp



Technical Parameter Table

Rare Earth (RE) Self Cleaning Magnet

Model	Belt Width	Size (LxWxH)	Motor Power
	inch	inch	hp
RE30	30	82 x 55 x 31	3
RE36	36	92 x 61 x 32	5
RE42	42	98 x 67 x 32	5
RE48	48	104 x 73 x 32	5
RE54	54	117 x 80 x 34	5
RE60	60	123 x 85 x 34	5

Note: Gauss measurements are recorded at a fixed height above a standardized ferrous object. Actual readings will vary based on distance (air gap), surface finish, and the magnetic permeability of the object. These values are for reference only; field-testing is recommended for specific applications.

Rare Earth Fixed (REF) Magnet

Model	Size (LxWxH)	Magnetic Intensity		Target Height
	inch	mT	Gs	inch
REF30	36 x 30 x 10	70	700	10
REF36	42 x 40 x 11	78	780	10
REF42	48 x 46 x 12	68	680	12
REF48	54 x 52 x 12	68	680	14
REF54	60 x 58 x 16	70	700	16
REF60	66 x 65 x 16	70	700	18

Note: Gauss measurements are recorded at a fixed height above a standardized ferrous object. Actual readings will vary based on distance (air gap), surface finish, and the magnetic permeability of the object. These values are for reference only; field-testing is recommended for specific applications.





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