



Magnets | Material Handling  
Electronic Inspection | Service

# Self-Clean Suspended Electromagnet

Series: ECBS



## Application

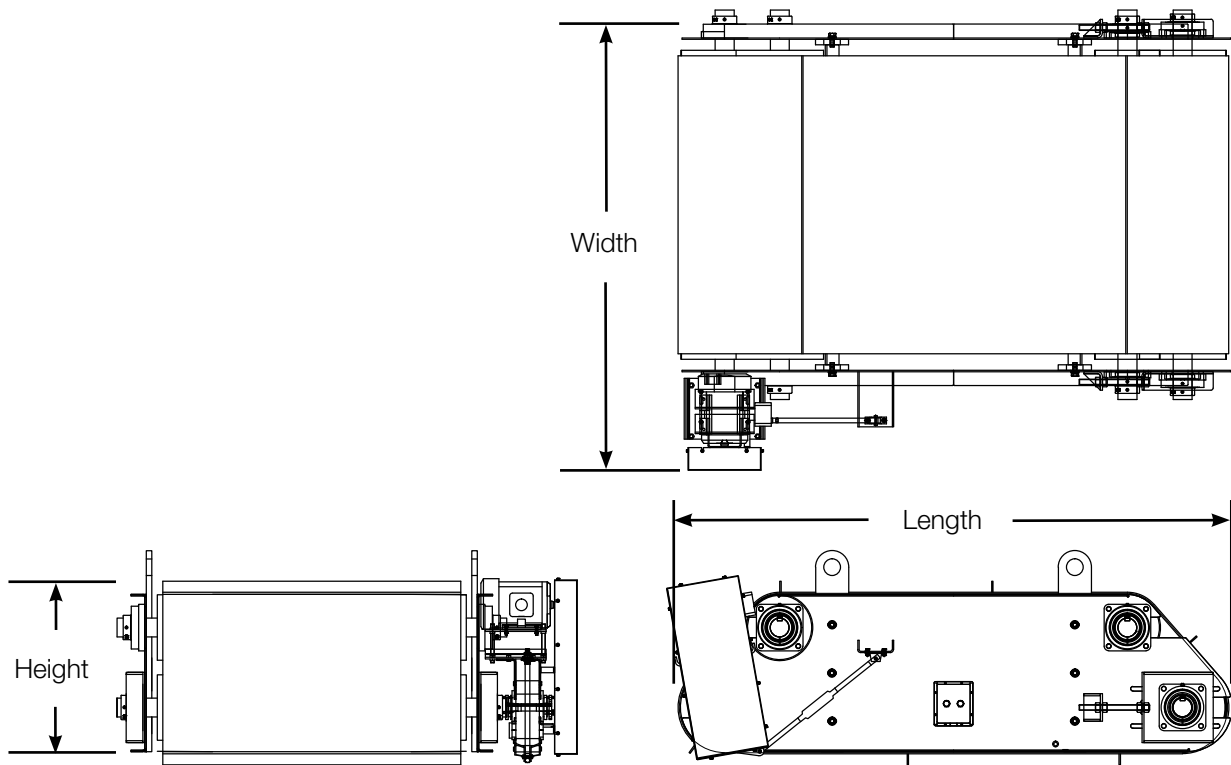
MPI's Self-Clean Suspended Electromagnets are specifically designed to produce the most effective magnetic force available. The cooling system is engineered to allow the coil to operate at extremely high intensity while remaining relatively cool in its frame. Transformer oil in and around the parts of the coil windings keeps all components at the same temperature. A broad selection of options are available to provide peak production in uncommon or involved applications.

## Operation

MPI's Self-Clean Suspended Electromagnets feature effective removal of unwanted tramp metal from heavy burden depths of material being conveyed by fast-moving conveyor belts. The Self-Clean Suspended Electromagnets have a conveyor belt moving across the magnet to automatically remove the collected tramp metal from the magnet face.

*\*Specifications subject to change*

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## Self-Clean Suspended Electromagnet ECBS Selection Guide

MODEL NUMBER	LENGTH	WIDTH	HEIGHT	BELT WIDTH	WEIGHT (LBS.)	VOLTAGE	WATTAGE	MOTOR HP
ECBS-24	82"	53"	22"	36"	1,700	115 VDC	1300	3
ECBS-30	88"	59"	29"	42"	2,800	115 VDC	4061	3
ECBS-36	84"	65"	29"	48"	3,800	115 VDC	5150	3
ECBS-42	100"	71"	33"	54"	5,100	115 VDC	6844	3
ECBS-48	112"	83"	34"	60"	7,000	115 VDC	7885	3
ECBS-54	112"	83"	34"	66"	9,300	115 VDC	9975	5
ECBS-60	118"	89"	38"	72"	12,500	230 VDC	14436	5

Custom sizes available upon request.

### Standard Features

- 3 - 5 HP motors
- Shaft mounted speed reducers
- Self-aligning regreasable bearings
- Non-magnetic belt fasteners
- 3-ply non-endless rubber belts with vulcanized rubber cleats
- Texaco (ASTM D3487) transformer cooling oil (specification sheet available upon request)
- Extremely powerful; manufactured with a high gradient balanced magnetic circuit
- Coils manufactured with Class "H" (or better) anodized aluminum strap for the "best in class" coil insulation performance
- Breather valve allows expansion and contraction without external expansion tank
- Durable Nomex and Glastic materials extend coil life
- Extra wide belt helps prevent tramp metal damage under the belt, extending belt and component life
- Crowned pulleys for accurate belt tracking

### Options

- Steel dust enclosures for magnet installations in dusty locations
- Zero-speed switches
- Special belts for abrasive, hot or special applications
- Nonflammable coolant
- Static-conducting belts
- Belt sheave drive
- NEMA 4x enclosure
- Nonstandard motor voltage

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