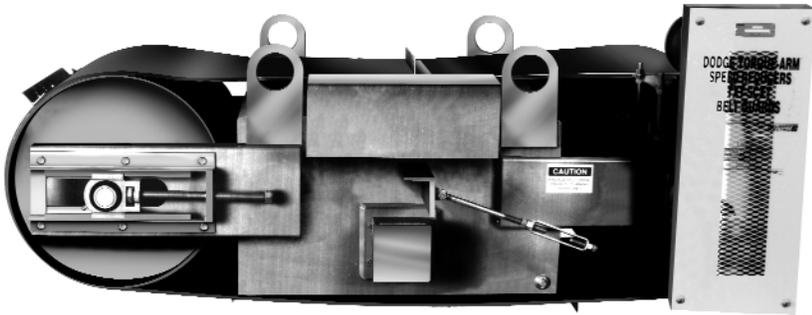




SUSPENDED ELECTROMAGNETS TRAMP MTL 11D (2/99)

Manual & Self-Cleaning Models

Class 1 Constructions



Self-Cleaning Electromagnet

*Photos represent products at date of publication.

BENEFITS:

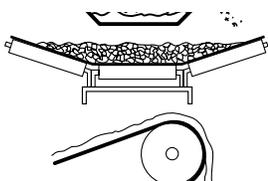
- Powerful ferrous metal separation
- On/Off capability

INTRODUCTION:

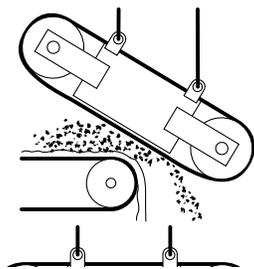
IMI's Suspended Electromagnets are designed for separation of ferrous metal from a variety of over-the-belt conveyor applications. Proven in industries such as Mining, Recycling, Tire Shredding, Pulp & Paper, and Construction & Demolition, IMI's Suspended Electromagnets offer superior strength and reliability.

Used in high volume, low (less than 6") product depth applications, suspended electromagnets offer "deep reach" capacity and the ability to be turned on & off.

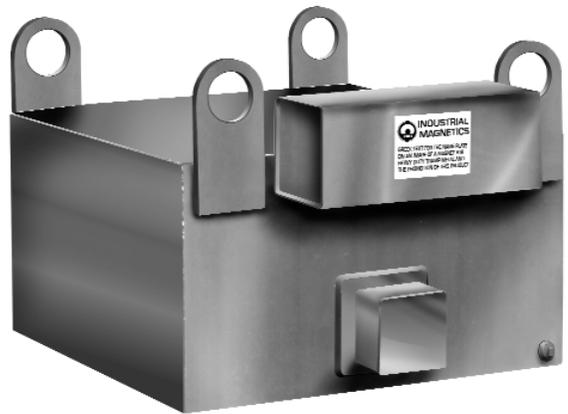
Installation options include In-Line and Cross-Belt configurations to meet the specific needs of your application.



Cross-Belt Application



In-Line Application



Manual-Clean Unit

OPERATION:

As the product on a conveyor belt flows under the powerful magnetic field, ferrous material is pulled out of the product flow and held to the face of the magnet.

When using a Manual-Clean model, the collected tramp metal is held in place for as long as the unit has power. In order to clean the unit, the power source must simply be turned off, which instantly releases the metal from the magnets hold.

With Self-Cleaning models, continuous cleaning is made possible by a heavy duty clad belt that encircles the magnet on a series of rotating pulleys. As ferrous metal is attracted and held by the magnet, the moving belt carries the collected metal outside of the magnetic field where it is then released beyond the product flow.

IMI Is Represented By Air Process Systems & Conveyors Co., Inc.

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MANUAL-CLEAN SUSPENDED ELECTROMAGNETIC SEPARATORS

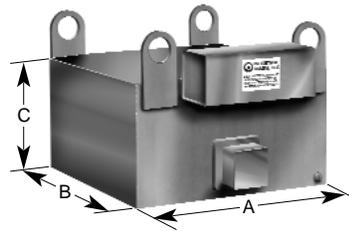
OPTIONS:

- Self-Cleaning package
- Custom sizes and designs
- Special power supplies

SPECIFICATIONS:

- Non-combustible coolant
- External expansion tank
- Insulated copper coils
- Manganese impact plate
- Lift lugs
- 3 year limited warranty on coils

SEMO DIMENSIONS (Manual-Clean):



*Dimensions are representative of product at date of publication. If dimensions are critical call for up-to-date changes.

SEMO Model	Magnet Dimensions A x B	Magnet Height C	Magnet Voltage VDC	Magnet Wattage	Approx Weight Lbs.
SEMO241	24" x 24"	14"	115	1,650	950
SEMO301	30" x 30"	16"	115	2,700	1,550
SEMO361	36" x 36"	20"	115	3,800	2,350
SEMO422	42" x 42"	22"	230	5,000	3,600
SEMO482	48" x 48"	24"	230	6,600	4,950
SEMO542	54" x 54"	26"	230	8,000	6,950
SEMO602	60" x 60"	30"	230	10,000	8,750
SEMO662	66" x 66"	32"	230	12,250	11,500
SEMO722	72" x 72"	32"	230	14,500	16,000
SEMO782	78" x 78"	36"	230	17,000	20,050

Note: All dimensions are stated in inches.

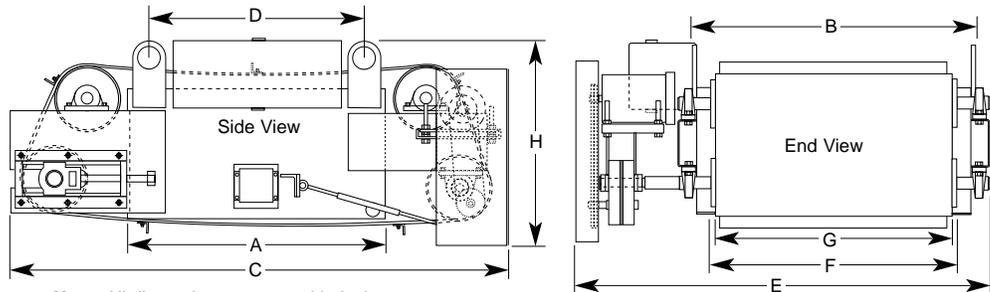
SELF-CLEANING SUSPENDED ELECTROMAGNETIC SEPARATORS

OPTIONS:

- Turnbuckles
- Permanent plate magnet extensions
- Custom steel tube mounting frame

SPECIFICATIONS:

- Dodge drive components
- Direct drive mounting
- Worm gear speed reducer
- Multi-layer industrial grade rubber belting
- 2" high stainless steel cleats
- Commercially available bearings & takeups
- Heavy duty steel channel framework
- 240/480V AC motor



Note: All dimensions are stated in inches.

SEMOSC Model	Magnet Dim. A x B	Overall Length C	Eye-Bolt Centers D	Overall Width E	Pulley Width F	Belt Width G	Overall Height H	Number of Pulleys	Pulley Dia.	Motor H.P.	Approx Weight Lbs.
SEMO241SC	24" x 24"	62"	16"	44"	20"	18"	32"	2	16"	2	1,335
SEMO301SC	30" x 30"	75"	22"	51"	26"	24"	32"	2	20"	2	2,200
SEMO361SC	36" x 36"	89"	28"	58"	32"	30"	34"	2	24"	2	3,340
SEMO422SC	42" x 42"	95"	34"	64"	38"	36"	34"	2	24"	3	4,650
SEMO482SC	48" x 48"	93"	40"	69"	44"	42"	38"	4	12"	3	6,215
SEMO542SC	54" x 54"	95"	46"	75"	51"	48"	42"	4	12"	3	7,800
SEMO602SC	60" x 60"	97"	52"	81"	57"	54"	45"	4	12"	5	10,160
SEMO662SC	66" x 66"	103"	58"	87"	63"	60"	48"	4	12"	5	13,575
SEMO722SC	72" x 72"	120"	64"	93"	69"	66"	51"	4	12"	7-1/2	20,275
SEMO782SC	78" x 78"	126"	70"	99"	75"	72"	51"	4	12"	7-1/2	22,550

*Dimensions represent product at date of publication. If dimensions are critical call for up to date changes.

POWER SUPPLY FEATURES FOR SUSPENDED ELECTROMAGNETS

- NEMA rated enclosure
- Input and output fused
- Isolation transformer
- Three phase full wave bridge
- Transformer overrated for additional protection

SEMO Model No.	Required Power Supply	Dimensions H x W x D	Input Voltage	Output Voltage	Supply Wattage
241(SC)	PSS43200	24" x 24" x 12"	240VAC3Ø	115VDC	2,000
	PSS53200	24" x 24" x 12"	480VAC3Ø	115VDC	2,000
301(SC)	PSS43300	24" x 24" x 12"	240VAC3Ø	115VDC	3,000
	PSS53300	24" x 24" x 12"	480VAC3Ø	115VDC	3,000
361(SC)	PSS43400	24" x 24" x 12"	240VAC3Ø	115VDC	4,000
	PSS53400	24" x 24" x 12"	480VAC3Ø	115VDC	4,000
422 (SC)	PSS44500	36" x 30" x 16"	240VAC3Ø	230VDC	5,000
	PSS54500	36" x 30" x 16"	480VAC3Ø	230VDC	5,000
482(SC)	PSS44700	36" x 30" x 16"	240VAC3Ø	230VDC	7,000
	PSS54700	36" x 30" x 16"	480VAC3Ø	230VDC	7,000

SEMO Model No.	Required Power Supply	Dimensions H x W x D	Input Voltage	Output Voltage	Supply Wattage
542(SC)	PSS44800	36" x 30" x 16"	240VAC3Ø	230VDC	8,000
	PSS54800	36" x 30" x 16"	480VAC3Ø	230VDC	8,000
602(SC)	PSS441000	36" x 30" x 16"	240VAC3Ø	230VDC	10,000
	PSS541000	36" x 30" x 16"	480VAC3Ø	230VDC	10,000
662(SC)	PSS441250	36" x 30" x 16"	240VAC3Ø	230VDC	12,500
	PSS541250	36" x 30" x 16"	480VAC3Ø	230VDC	12,500
722(SC)	PSS441500	36" x 30" x 16"	240VAC3Ø	230VDC	15,000
	PSS541500	36" x 30" x 16"	480VAC3Ø	230VDC	15,000
782(SC)	PSS442000	36" x 30" x 16"	240VAC3Ø	230VDC	20,000
	PSS542000	36" x 30" x 16"	480VAC3Ø	230VDC	20,000

Note: Power Supplies are available in VAC single phase and 240/480 and 575 three phase. Power supply enclosures are available in NEMA 1, 4, 9 and 12.
Note: Magnets are sized according to application requirements. **Coolant oil** levels must be checked regularly.

