KINDER™
EXPERIENCE INNOVATION PRODUCTIVITY

Suspended Overhead Magnets

Applications Sheet

Customer _____ Quote No._____ Ind. Code _____ Date _____

1. Product: FIELDS HIGHLIGHTED IN RED ARE REQUIRED INFORMATION

Description: _____ Size range: _____to_____ Max Lump Size: _____

Moisture %____ Temperature range:____to____°F Volume/Rate _____ Bulk Density _____

Product width on belt: _____ Product/burden depth range:_____to_____

Tramp Metal: Size Range____to____ Description of Tramp Metal:_____

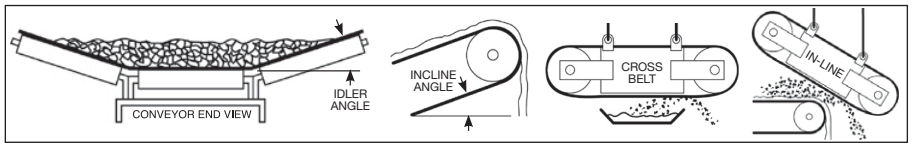
2. Application Specifications:

CONVEYOR: Belt width (flat):_____ Belt Speed:_____ Belt Thickness:_____ Idler Angle:___°

Incline Angle:___° Head Pulley Material:_____ Head Pulley Diameter:_____ Lagging Thickness:____

How much ferrous metal is under the conveyor:_____

NOTE: To maximize the performance, the conveyor section below the magnet and 18"-24" on either side of the magnet should be non-ferrous.



MAGNET: Cleaning Method: ☐ Self-Cleaning (Choose orientation below) ☐ Manual Clean

Type: ☐ Permanent or ☐ Electromagnet (Input Voltage_____ Hertz_____ Phase_____ NEMA____)

Suspension height of magnet (from lowest belt surface): _____

Orientation to Conveyor: ☐ In-Line or ☐ Cross Belt (Discharge from Drive Side: ☐ Right or ☐ Left)

NOTE: The Drive and Expansion Tank (Electro Only) standard location is on high point side of the magnet case during incline installations.

☐ Special Motor Required: Brand/Model_____ Voltage____ Hertz____ Phase____ NEMA__

☐ Special Belting and/or Cleats Required (See options below or please specify):_____

_____

BUDGET & TIME FRAME: Funded project: ☐ Yes ☐ No Budget range for magnet: _____

Time Frame for purchase and installation: _____

OPTIONAL EQUIPMENT

Self-Cleaning Magnets
- ☐ Motor starter
- ☐ Explosion proof motor and junction box (NEMA 9)
- ☐ Dust Hood
- ☐ Stainless steel wear plate
- ☐ Impact package: Stainless clad belt, lagged drive pulley
- ☐ Zero speed switch
- ☐ Turnbuckles
- ☐ High temperature oil

Belt & Cleat Options
- ☐ Option 1 (Std)
  220 2 ply Rubber Belt, R2S Flexco Lacing, Vulcanized Cleats
- ☐ Option 2
  220 2 ply Rubber Belt, R2S Flexco Lacing, 304 Stainless Steel Cleats
- ☐ Option 3
  Urethane Belt 150 PIW, R2S Flexco Lacing, Vulcanized Cleats
- ☐ Option 4
  220 2 ply Rubber Belt, R2S Flexco Lacing, 304 Stainless Steel Cleats and Belt Cladding
- ☐ Option 5
  H.D. 330 3 ply Rubber Belt, R2S Flexco Lacing, 304 Stainless Cleats

Manual Clean Magnets
- ☐ EZ-Clean stripper pan
- ☐ EZ-Clean swiper bar
- ☐ Turnbuckles

Power Supplies

Volt Meter	AC ☐	DC ☐
Amp Meter	AC ☐	DC ☐
Line Fuse	AC ☐	DC ☐

Internal Use

Type of magnet(s) recommended:_____ Qty:_____

Comments/Concerns:_____

_____

All Photos And Drawings Represent The Products At The Time Of Publication (03/14)

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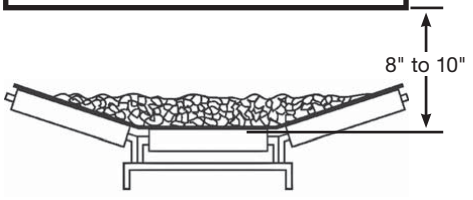
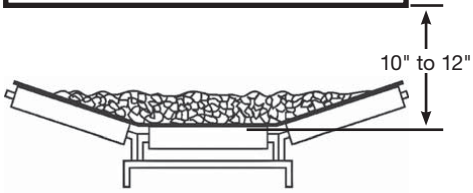
MANUAL CLEAN

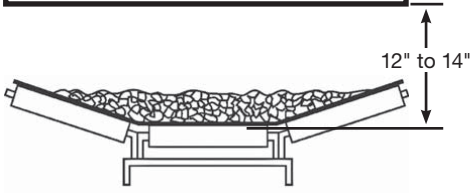
SPMC10



SPMC12

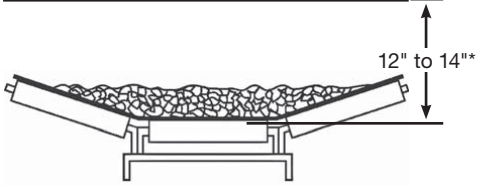


SPMC14

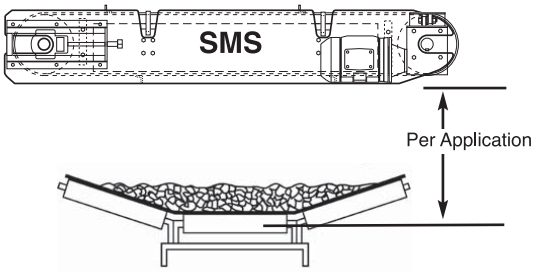


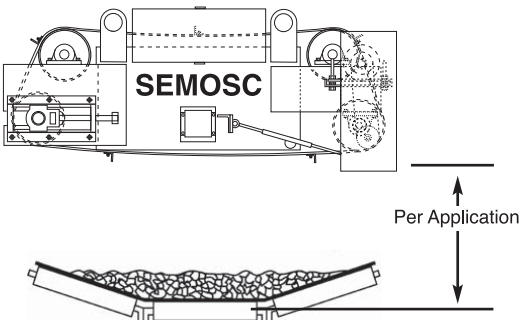
SEMO

*Consult Factory for suspension heights greater than 14".



SELF-CLEAN





Notes

- Suspension height is based on product depth
- Lower suspension heights may increase the amount of metal captured
- Ferrous metal embedded or trapped under other products may not be captured
- Recommended ferrous metal free zone 18”-24” either side of the magnet and directly underneath
- Electromagnets are used to pick up large tramp metal and always used for large bucket teeth 20lbs. plus
- For self cleaning magnets, the suspension height needs to include the normal belt sag of 1”-2”
- As a rule of thumb - electromagnets are normally (1) size larger than the conveyor belt due to the magnetic field configuration. (Exception: in-line applications)

CALCULATIONS

Feed Capacity:	$\frac{\text{Tons Per Hour}}{\text{Specific Weight}}$ x 2000 - cubic feet per hour
Burden width in feet:	(Belt width - 6")/12"
Burden depth in inches:	$\frac{\text{Feed capacity (cu. ft./hr.) x1.5}}{\text{Belt speed (fpm) x burden width (ft.) x 5}}$

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