

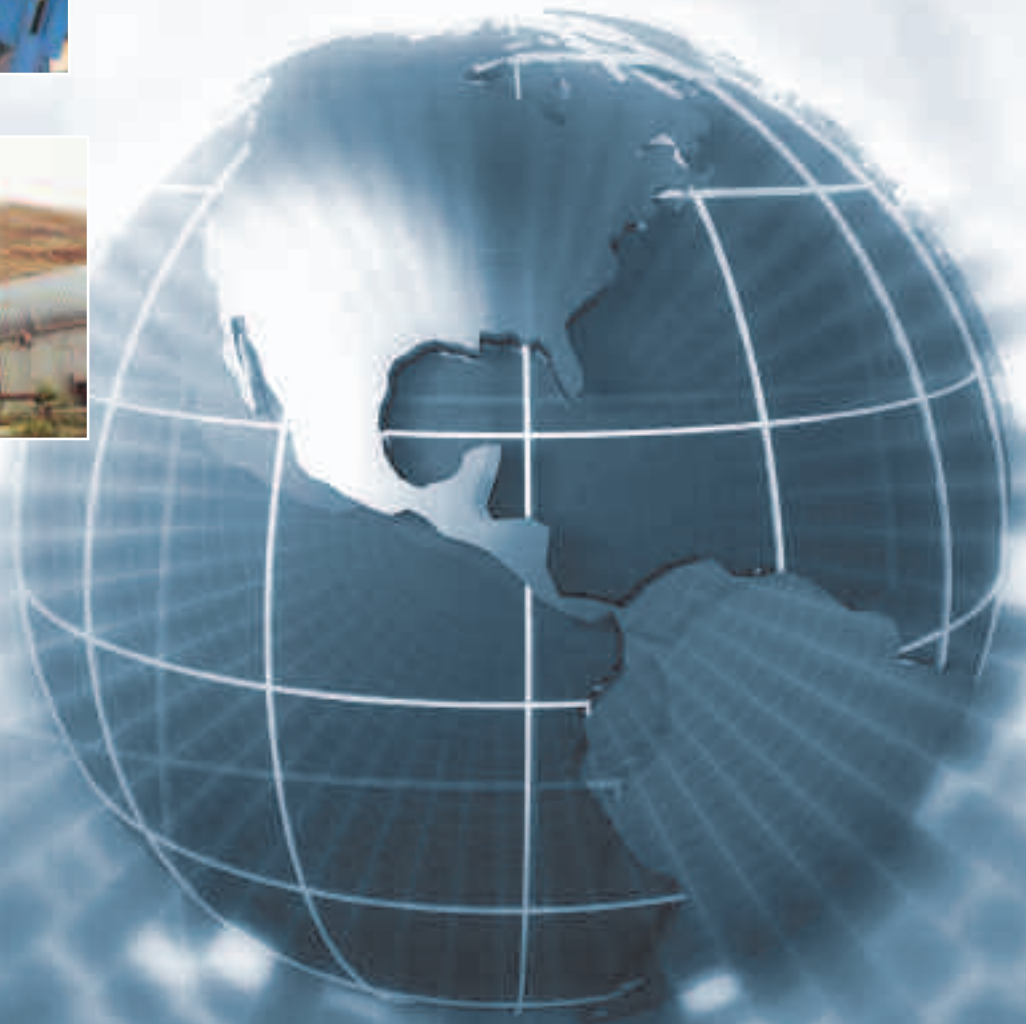
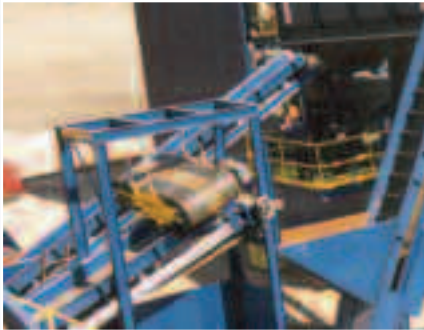


WALKER MAGNETICS

Magnetic Solutions Since 1896

SUSPENDED SEPARATION EQUIPMENT

Magnets for Beneficiation and Tramp Iron Removal



ELECTROMAGNETIC SUSPENDED SEPARATORS

SELF-CLEANING AND MANUAL

Deep penetrating electromagnets, incorporating all of the latest innovations in coil design, allow Walker's Electromagnetic Suspended Separators to remove both large and small tramp metal from deep burdens on fast-moving conveyors.

The separators are designed for continuous operation at peak performance.

Electromagnetic Suspended Separators are available in manual and self-cleaning designs. Manually cleaned magnets are discharged electrically.

Self-cleaning magnets can be mounted in line with the material flow or transverse to remove the ferrous materials over the side of the conveyor.



Standard Magnet Features:

- 115 or 230 VDC aluminum coils
- Class R (220°C) insulation
- 100% duty cycle, oil cooled
- Space wound for rapid heat dissipation
- Internal oil expansion chamber with pressure release valve and drain plugs
- Heavy wear-resistant non-magnetic steel bottom plate

Standard Self-Cleaning Magnet Features:

- Heavy-duty self-aligning sealed bearings
- Rugged structural steel frame
- TEFC motor
- Single head and tail pulleys on smaller units, compact four-pulley design on larger units
- Heavy cleated rubber belt with take-up adjustment
- Four-point suspension

DYNAFORCE SUSPENDED SEPARATOR

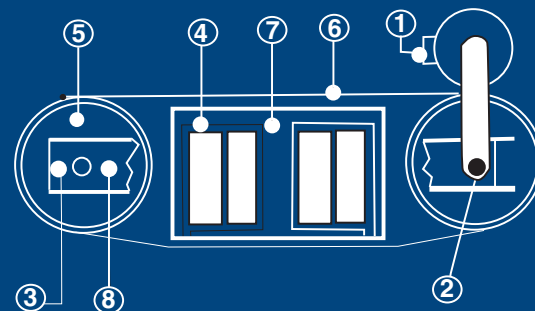
2 & 4 PULLEY CONSTRUCTION - BELT SPEEDS UP TO 700 FPM IDEAL FOR TRAMP IRON REMOVAL

Walker Magnetics provides the best in suspended Magnet and Separator design with its experienced staff of design engineers.

Over 50 years of field expertise has shown us what is required to make these separators the best available for consistent and proven performance. We have incorporated a 2 or 4 pulley design for most sizes for ease of tracking and longer belt life. Large shaft diameters are used for additional bearing life. Heavy-duty bearings provide virtually maintenance free operation.

Walker Magnetics application engineers will provide the proper selection of the best and most economical unit for your application.

- 2 or 4 Pulley Construction
- Shaft mounted reducers
- Mounting flexibility
- Cool operating coils
- 2 or 4 Pulley Construction
- Shaft mounted reducers
- Mounting flexibility
- Cool operating coils



1. Heavy-duty shaft mount motor reducer
2. Heavy-duty flange bearings
3. Heavy-duty take-up bearings
4. Liquid dielectric gap wound coil
5. Heavy-duty 2 or 4 pulley construction on most sizes
6. Heavy-duty belt with stainless steel or vulcanized rubber cleats
7. Internal expansion chamber
8. Heavy-duty frame for suspended or base mounting

PERMANENT MAGNET SUSPENDED SEPARATORS

SELF-CLEANING AND MANUAL

Walker's Permanent-Magnet Suspended Separators use powerful Cermax® magnets for increased efficiency in the separation of ferrous materials. The permanent magnet design has a lower installation cost than the electromagnet type, because no DC rectifier is required, and operating costs are also lower, since the magnets consume no power. Suspension heights up to 10" - 12" are available.

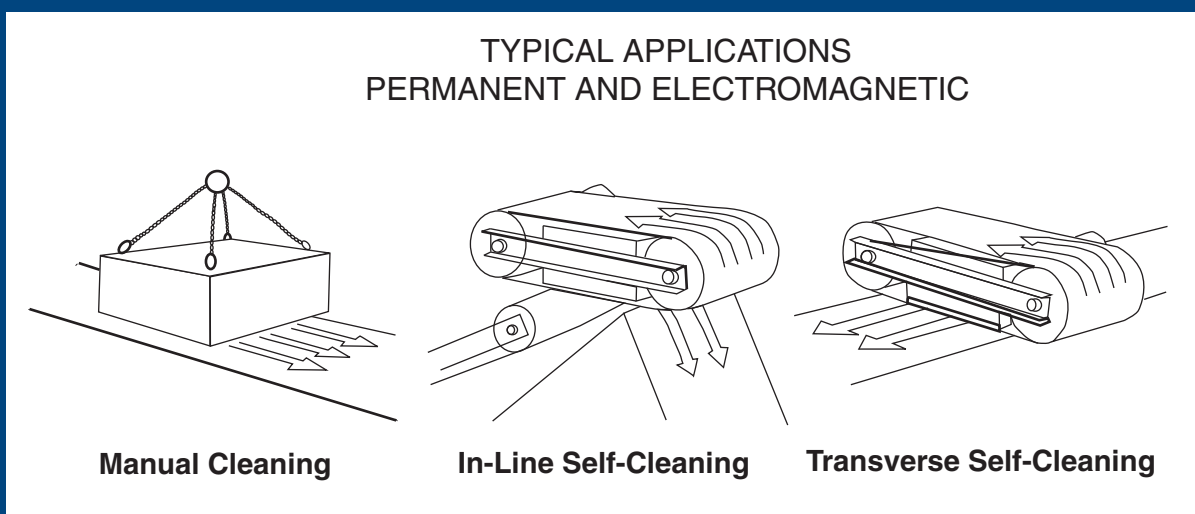
These separators are available in manual and self-cleaning designs. Manually cleaned magnets can be supplied with a stripper mechanism. The self-cleaning type uses a two-pulley design. Parallel self-cleaning magnets are mounted in line with the material flow, while transverse self-cleaning magnets remove the ferrous materials over the side of the conveyor.

Standard Magnet Features:

- High-powered Ceramax magnetic circuit for deeper field penetration
- Heavy-duty welded construction for years of service
- No power consumption, virtually maintenance-free
- Extra thick bottom plate for wear resistance

Standard Self-Cleaning Magnet Features:

- Shaft mounted speed reducer
- TEFC motor
- Belt take-up adjustment
- Heavy cleated rubber belt
- Self-aligning sealed bearings
- Four point suspension
- Rugged structural steel frame



SUSPENDED SEPARATOR APPLICATION QUESTIONNAIRE

Name: _____ Title: _____ Date: _____

Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Telephone: _____ Fax: _____ Email: _____

Application: _____

Bulk Material: Product: _____

Tons/Hour: _____ Density: _____ Cu. Ft./Hour: _____

Lump Size: Maximum: _____ Medium: _____

Equipment to be protected: _____

Hours of operation per day: _____

Transportation Method - Belt Conveyor:

Width: _____ Speed: _____ FPM Trough Idlers: _____

Max. Burden Depth: _____ Head Pulley Dia. _____

Conv. Incline: _____ Suspension Height Req. _____

Other Transportation Methods:

Vibratory Feed: _____ A. Width: _____ B. Side Height: _____

Oscillatory Feed: _____ A. Width: _____ B. Side Height: _____

Self Cleaning: _____ A. Cross-Belt _____ B. In-Line: _____

Manual Cleaning: _____ A. Over-Belt: _____ B. Over Head Pulley: _____

Magnet Type: _____ Permanent: _____ Electro: _____

Tramp Iron: _____ Min. Size: _____ Max. Size: _____

Tramp Shape: Hex Nut _____ Cube _____ Rod _____ Plate _____ Sphere _____

Max. Length of Tramp Iron to be Extracted: _____

Site Conditions: Ambient Temp: Max: _____ Min: _____

Indoor: _____ Outdoor: _____

A.C. Input: Volts: _____ Phase: _____ Hertz: _____

NEMA Type Enclosure: _____

If D.C. Voltage Available Specify: _____ Voltage: _____ KW: _____



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