

MAGNETIC Separators and Pulleys



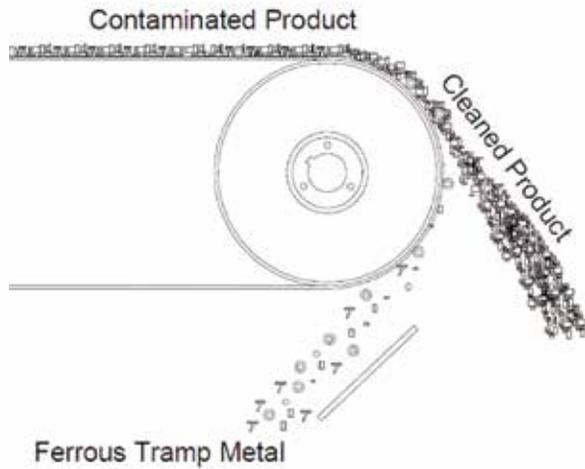
Davis Industrial understands how serious it is protecting your product and equipment from foreign objects. Permanent separators help separate tramp ferrous metals from conveyed material. They are typically suspended above the belt, which allows them to effectively and efficiently pull metal up and away from the product flow before discharging it safely away from the conveyor.

Magnetic pulleys can be used for just about any head pulley application. You'll be able to remove potentially harmful tramp ferrous metal before it damages expensive processing equipment. This means our customers can continually provide a quality end product without the interference of ferrous metals.

- **PMG** - CEMA Class Permanent Magnetic Pulley
- **HMG** - Standard Manual Cleaning Permanent Magnetic Separator
- **CBM** - Standard Self Cleaning Permanent Magnetic Separator
- **XMG** - Super Power Manual Cleaning Permanent Magnetic Separator
- **CBM** - Super Power Self Cleaning Permanent Magnetic Separator

Magnetic Pulley Application Sheet

HOW THEY WORK



PULLEY BUSHING INFORMATION



Shaft shown is optional.

- 1/4" Thick Plain Vulcanized
- 1/4" Thick Herringbone Groove Vulcanized
- 1/4" Thick Diamond Groove Vulcanized

Lagging is not recommended as it tends to reduce the magnetic field strength.

APPLICATION DATA

Date _____

Conveyor Belt Width _____

Belt Trough Angle

0° (Flat) 20° 35° 45°

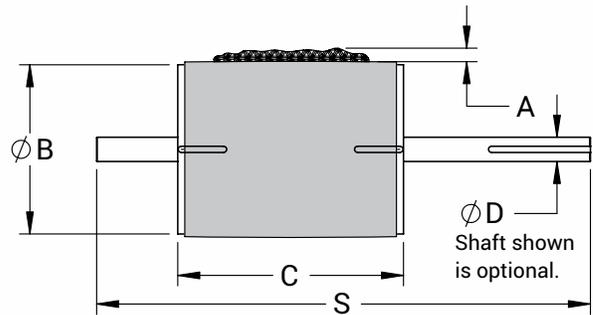
Conveyor Belt Speed _____

Burden Depth "A" _____

Pulley Diameter "B" _____

Pulley Face Width "C" _____

Shaft Diameter "D" _____



Shaft Length "S" _____

Number Of Keys _____

Number Of Turn Downs _____

Conveyed Product _____

Maximum Lump Size _____

Conveyor capacity (TPH) _____

Description of ferrous metals to be removed

Ratio of Ferrous to non-ferrous material

Additional Information _____

Suspended Magnetic Separator Application Sheet

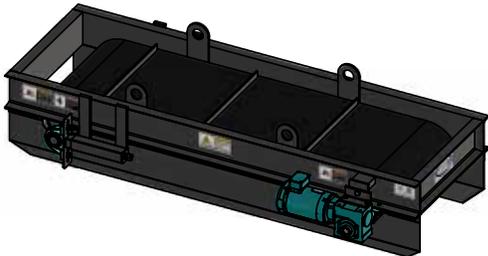
INDICATE STYLE/POWER PREFERENCE

MANUAL CLEANING



- XMG SUPER POWER
- HMG STANDARD POWER

SELF-CLEANING



- CBX SUPER POWER
- CBM STANDARD POWER

CONTACT INFORMATION

Name _____

Company Name _____

City _____

State _____

Phone _____

E-mail _____

APPLICATION DATA

Date _____

Conveyor Belt Width _____

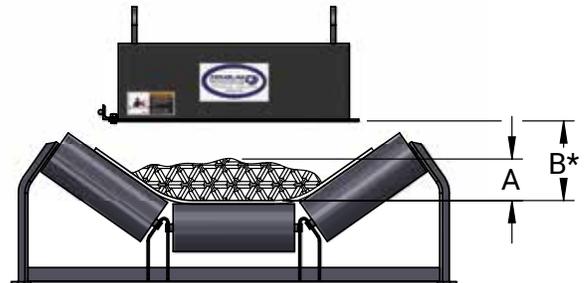
Belt Trough Angle

- 0° (Flat) 20° 35° 45°

Conveyor Belt Speed _____

Burden Depth "A" _____

Mounting Height "B"* _____



Conveyed Product _____

Mounting Alignment

- Cross-Belt
- In-Line

Description of ferrous metals to be removed

Additional Information

* Mounting height of magnet to be determined by customer based on the required clearance. Note that the closer the magnet face is to top cover at belt centerline the more effective the magnet.