

# ELECTROMAGNETIC SEPARATORS

Douglas® VanGuard™ electromagnetic separators are used in applications where a stronger magnetic field is required due to suspension height, belt speed or burden depth. These magnets are popular for protection of downstream equipment in conveyor systems, including crushers and bark hogs.

Electromagnetic separators are oil-filled and utilize state-of-the-art anodized aluminum coils, expansion tanks, and solid core construction for maximum performance and longevity. Douglas also offers robust power supplies. NEMA 4 enclosures are standard with 480 VDC power supplies. Custom cabinets and special voltage inputs are available on request. Anodized aluminum coils have a standard 10 year warranty.

## Sizes Available

- 18" to 72" belt widths
- Up to 26" suspension heights
- Custom sizes and application specific designs

## Self Cleaning Electromagnetic Separators (ESH)

- Automatically discharges tramp metal away from the conveyor
- Heavy grade structural steel frame complete with CEMA class lagged crown face head pulley, tail pulley and Slide Tube® belt take-ups
- Heavy duty rubber cover belt standard with hot vulcanized cleats
- Shipped complete, factory test run and ready for installation
- CLASS II shaft mount gear drive with TEFC motor (custom drives available)

## Manual Cleaning Electromagnetic Separators (EMH)

- Manual cleaning of ferrous metal required
- Power off for easy cleaning
- Shipped complete and ready for installation



ESH



EMH



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# MAGNETIC SEPARATORS & PULLEYS

Douglas® magnetic separators are for use in helping separate tramp ferrous metals from conveyed material and are suspended above the belt. Magnetic pulleys are manufactured to CEMA standards and can be used in most head pulley applications.

## CEMA Class Permanent Magnetic Head Pulleys (PMG)

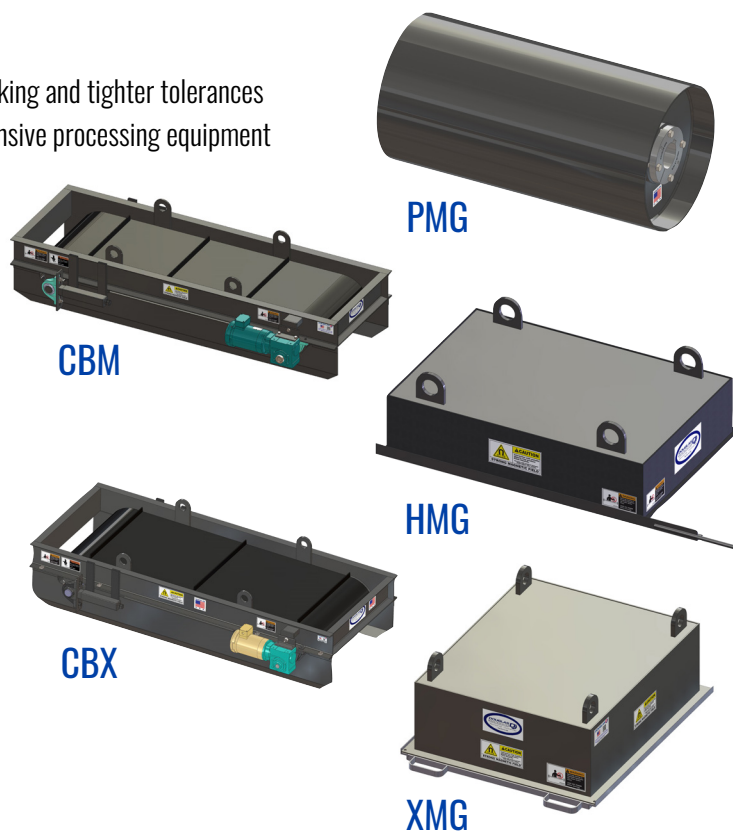
- Meets or exceeds CEMA/ANSI specifications
- Exclusive One Piece Rolled in Crown ensures consistent, proper belt tracking and tighter tolerances
- Remove potentially harmful tramp ferrous metal before it damages expensive processing equipment
- Crown face pulleys are furnished standard, flat face must be specified
- Douglas hubs and bushings are interchangeable with XT® style
- Stainless Steel Rim standard on all permanent magnetic pulleys

## Self Cleaning Permanent Magnetic Separator (CBM - Standard Power or CBX - Super Power)

- Automatically discharges tramp metal away from the conveyor
- Heavy grade structural steel frame complete with CEMA class lagged crown face head pulley, tail pulley and Slide Tube® belt take-ups
- Heavy duty rubber cover belt standard with hot vulcanized cleats
- Shipped complete, factory test run and ready for installation
- CLASS II shaft mount gear drive with TEFC motor (optional hydraulic drive)

## Standard Manual Cleaning Permanent Magnetic Separators (HMG - Standard Power or XMG - Super Power)

- Manual cleaning of ferrous metal required
- Pivot arm or cleaning drawer available for easy cleaning
- Shipped complete and ready for installation
- Zero power requirements; easy to install anywhere.



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