



**MAGNETIC PRODUCTS, INC.**

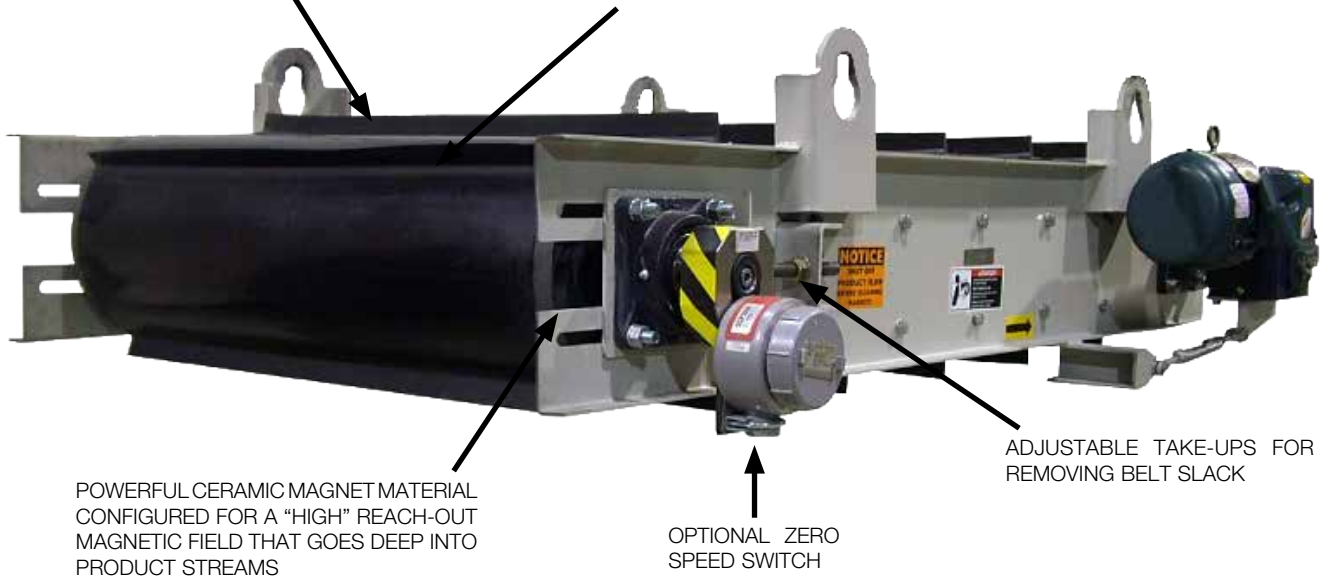
ENGINEERED METAL CONTROL SOLUTIONS

# Self-Clean Suspended Permanent Magnet

**Series: CBS**

AUTOMATIC-SELF CLEANING BELT REMOVES FERROUS MATERIAL AND EXTRA WIDE DESIGN PROTECTS METAL FROM CONTACTING MAGNET FACE

CLEATED BELT CONVEYS COLLECTED TRAMP IRON TO A DROP-OFF COLLECTION AREA JUST BEYOND THE MAGNETIC FIELD AND PRODUCT CONVEYOR BELT



POWERFUL CERAMIC MAGNET MATERIAL CONFIGURED FOR A "HIGH" REACH-OUT MAGNETIC FIELD THAT GOES DEEP INTO PRODUCT STREAMS

OPTIONAL ZERO SPEED SWITCH

ADJUSTABLE TAKE-UPS FOR REMOVING BELT SLACK

## Application

MPI's Self-Clean Suspended Permanent Magnets produce the most effective removal of unwanted tramp metal from heavy burden depths of material being conveyed by fast-moving conveyor belts. They are ideal for separating tramp metal from wet or dry as well as fine or coarse conveyed materials in large or small volumes. Tramp metal extraction from product streams protect processing machinery, prevents fires or explosions caused by sparks, and improves product quality. The lower profile design of the Self-Clean Suspended Permanent Magnets allows for installations where space is limited.

## Operation

MPI's Self-Clean Suspended Permanent Magnet include a conveyor belt moving across the inverted magnet to automatically remove the collected tramp iron from the magnet's face. The magnet separators feature rubber conveyor belts, adjustable take-ups, rugged steel channel frame and a shaft mounted speed reducer with direct drive motor.

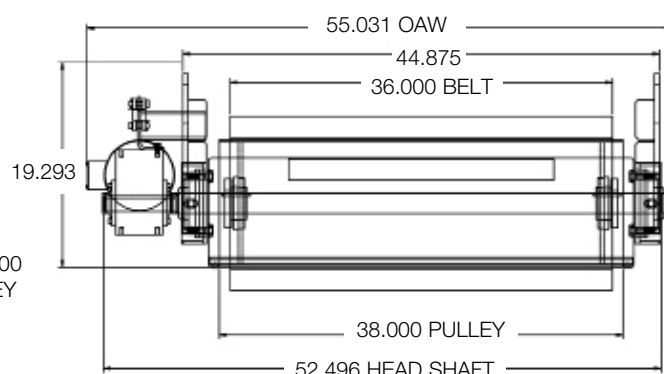
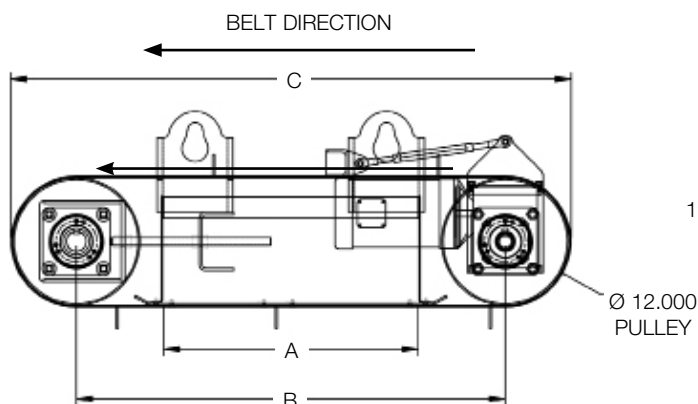
*\*Specifications subject to change*

Series CBS Version 3.0 © MPI

**MPI**

683 Town Center Drive, Highland, MI 48356 | p. 248.887.5600

info@mpimagnet.com | www.mpimagnet.com



## Self-Clean Suspended Permanent Magnet CBS Selection Guide

| CBS MODEL #      | MAGNET LENGTH "A" |        | CENTER-TO-CENTER OF PULLEYS "B" |        | FRAME LENGTH "C" |        | MOTOR HORSEPOWER | APPROX. UNIT WEIGHT |      |
|------------------|-------------------|--------|---------------------------------|--------|------------------|--------|------------------|---------------------|------|
|                  | IN.               | CM     | IN.                             | CM     | IN.              | CM     |                  | LBS.                | KG   |
| <b>CBS - 124</b> | 24                | 60.96  | 40.375                          | 102.55 | 59               | 149.86 | 2                | 1678                | 762  |
| <b>CBS - 130</b> | 30                | 76.20  | 46.375                          | 117.74 | 65               | 165.10 | 2                | 2147                | 974  |
| <b>CBS - 136</b> | 36                | 91.44  | 52.375                          | 133.03 | 71               | 180.34 | 2                | 2726                | 1237 |
| <b>CBS - 142</b> | 42                | 106.68 | 58.375                          | 148.27 | 77               | 195.58 | 2                | 3462                | 1570 |
| <b>CBS - 148</b> | 48                | 121.92 | 64.375                          | 165.51 | 83               | 210.82 | 2                | 4397                | 1994 |

### Standard Features

- Rubber conveyor belt
- 2 HP drive motor
- Speed reducer
- Permanent Ceramic 8 magnet material enclosed in stainless steel
- Adjustable belt take-ups
- Rugged, welded steel framework
- 4 integral frame suspension mounting eyelets
- Extra wide belt helps prevent tramp metal damage under the belt, extending belt and component life
- Crowned pulleys for accurate belt tracking

### Options

- Dust enclosures
- Explosion-proof motors
- Special belts
  - Metal clad
  - Abrasion resistant
  - Cleated (vulcanized rubber or stainless steel)
  - High temperature
- Zero-speed switches
- Foundry application packages
- Suspension turnbuckles
- Tramp iron chute work
- Custom drive system configurations
- Optional bucking magnet design increases reachout of magnetic field by 25%
- Ceramic, Rare Earth and exclusive Hi-G hybrid designs available

\*Specifications subject to change

Series CBS Version 3.0 © MPI

**MPI**

683 Town Center Drive, Highland, MI 48356 | p. 248.887.5600  
info@mpimagnet.com | www.mpimagnet.com