

# SUSPENDED PERMANENT MAGNETS



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RUGGED RELIABLE RECOVERY

# SUSPENDED PERMANENT MAGNETS



**Suspended Permanent Magnets are used in a range of applications and industries to recover valuable ferrous metals and protect downstream equipment.**



## FEATURES

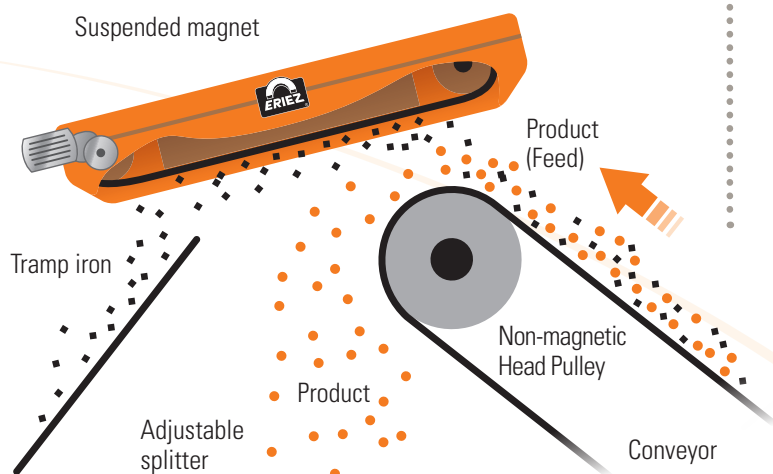
- 200-400mm suspension heights
- Multiple magnet circuit designs
- Hydraulic and electric motor options
- Range of sensors available
- To suit 500-2000mm wide conveyors as standard, with larger units available upon request
- ATEX certified magnets available

## APPLICATIONS

- Tramp iron removal from a range of materials
- Ideal for fitting to mobile crushing, screening and shredding machines
- Recovery of steel cans from MSW
- Removal of nails and screws from waste wood
- Protection of vital downstream equipment in mines and quarries

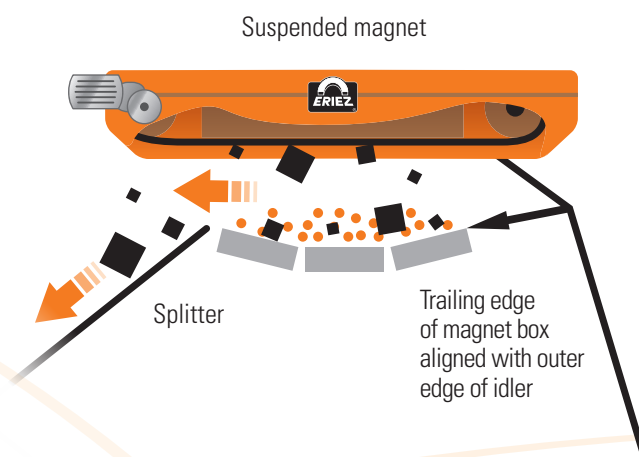
## IN-LINE POSITION

- Maximum iron removal
- Material is moving towards the magnet thereby facilitating iron capture and removal
- Often requires a smaller, less expensive magnet than equivalent cross-belt
- Extension magnets available if required



## CROSS-BELT

- Easy to retro-fit into existing installations
- Simple iron discharge and collection
- Ideal for lightweight mobile machinery
- Often requires a larger magnet to match the performance of in-line magnets





# ERIEZ MODELS



## CP MAGNETS

CP magnets are ideal for general tramp iron removal from a range of materials. CP magnets utilise a basic single pole design for cost effective but reliable performance.

\*Multiple sizes available in stock at Eriez Europe

## SP MAGNETS

SP magnets use larger magnet blocks with a multi pole design to enable use at increased suspension heights and to achieve maximum iron removal.

## TP MAGNETS

TP magnets incorporate a higher strength, dual pole magnet design to offer improved separation of smaller tramp iron. A horizontal lift orientation also reduces belt wear.

\*Multiple sizes available in stock at Eriez Europe

## RP MAGNETS

RP magnets are constructed with high strength, lightweight, neodymium (rare earth) magnetic circuits. A high gradient, high performance magnet that can be used where weight and space limitations are a factor.

| MODEL | MAGNET      | SUSPENSION (MAXIMUM) | APPLICATIONS  |
|-------|-------------|----------------------|---|
| CP    | Centre-pole | 200-350mm            | MRF plants, mobile crushers, picking belts, quarries, concrete re-bar |
| TP    | Twin-pole   | 200-350mm            | Waste wood, mobile shredders, picking belts, recycling                |
| SP    | Multi-pole  | Up to 400mm          | Large quarry/mining conveyors, protection of downstream equipment     |
| RP    | Rare Earth  | 200-250mm            | Mobile crushers/shredders/screens, picking belts, recycling           |

## SELF-CLEANING

- Heavy-duty vulcanised belt and pulley setup discharges iron parts from the magnet
- Available in a range of sizes to meet installation requirements
- Low maintenance
- All models available with electric or hydraulic drive



## MANUAL-CLEANING

- Ideal where quantity of tramp iron present is low
- Magnet stripper plate can be included to facilitate cleaning
- Lightweight and small size for confined installations
- Few wear parts



# ERIEZ' WORLDWIDE NETWORK OF MANUFACTURING, SALES & SERVICE



Manufacturing Affiliates in: Australia, Brazil, Canada, China, India, Japan, Mexico, South Africa, United Kingdom, USA



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