

CONSIDER CONVEYOR DESIGN AS WELL AS THE MAGNET STRENGTH

MAGNET DESIGN

As with all conveyor calculations it is important to consider the trough angle, belt speed and surcharge angle of the material when designing the correct magnet for your conveyor application.

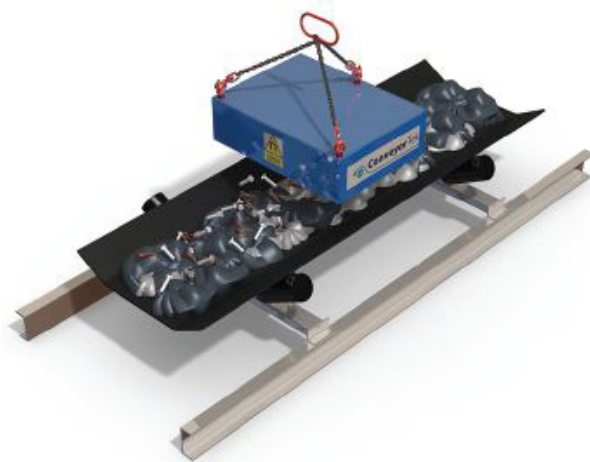
One of the key issues with magnet design is to be able to correctly simulate the cross sectional load on the conveyor belt.

Computer designed conveyors and magnets help to ensure that the required magnetic strength is achieved.

Whether you are extracting rogue ferrous material from damaging expensive plant or separating expensive recyclable materials, correctly considering all aspects of the application can save you money and improve performance.

Consider increasing your belt speed and reducing your burden depth!

► **TekTip:** Reducing the operating gap over the burden depth of material by 50mm can increase the magnetic field strength by up to 30%



ConveyorTek Metal Separation Range:

- Eddy Current Separators
- Electromagnets
- Drum Magnets
- Permanent Magnets
- Metal Detectors

OVERBAND MAGNET SAFETY

Overband Magnet Conveyors run at high speeds and should be guarded to European Safety Standards to protect operators from dangerous drum nip points.

Strontium Ferrite Ceramic Magnets are magnetised for life and can provide years of effective plant protection or product separation.

Strong magnets can affect pacemakers, watches, mobile phones and credit cards.

► **TekTip:** For optimum performance try installing the conveyor magnet at the material discharge point over the head drum.

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