

# Permanent **MAGNETIC PULLEYS**

Powerful magnetic pulleys are used to automatically separate heavy tramp iron and fine iron contaminants from conveyor transported materials.



## Features

- Powerful uniform magnetic field over the pulley surface
- Robust (fully welded)
- Suitable for large and small tramp iron removal
- Suitable for variable belt speeds and burden depths
- Easily installed or retrofitted

## Applications

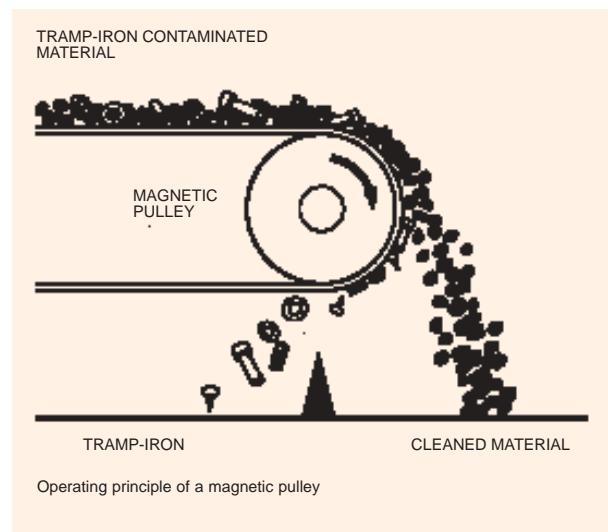
- Recycling
- Food production
- Mineral processing
- Chemicals
- Glass
- Coal
- Foundry sand
- Other dry product streams

# PERMANENT MAGNETIC DRUM PULLEYS

## Principle of operation

When material contaminated with tramp iron is presented to the magnetic pulley, the iron is attracted to the belt surface. The cleaned, nonmagnetic material is discharged over the pulley as normal, whilst the iron is held by the pulley and discharged below the normal trajectory.

A divider arrangement is usually installed as indicated in the illustration. An adjustable divider will permit optimum positioning for specific conditions of material and tramp iron discharge.

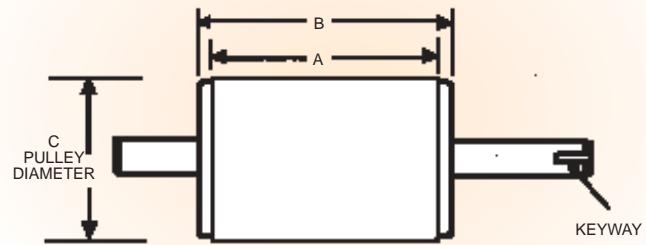


| Belt width<br><b>A</b> | Pulley width<br><b>B</b> | Nominal Pulley diameters<br><b>C</b> |     |     |     |     |     |     |  |
|------------------------|--------------------------|--------------------------------------|-----|-----|-----|-----|-----|-----|--|
|                        |                          | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 200                    | 250                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 300                    | 350                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 400                    | 450                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 500                    | 550                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 600                    | 650                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 650                    | 700                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 700                    | 750                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 800                    | 850                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 900                    | 950                      | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 1000                   | 1050                     | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 1100                   | 1150                     | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |
| 1200                   | 1250                     | 215                                  | 300 | 400 | 500 | 600 | 700 | 800 |  |

The dimensions of the shaft (length, diameter, etc) and the keyway (if required) are to the customer's reasonable specifications.

All dimensions are given for general guidance only.

Other sizes available on request.



One of the smallest Magnetic Pulleys in the range - 215mm diameter

**ERIEZ MAGNETICS EUROPE LTD**  
 European Manufacturing, Design and Laboratory Headquarters  
 Bedwas House Industrial Estate  
 Bedwas, Caerphilly, CF83 8YG UK  
 Telephone: 029 2086 8501 Fax: 029 2085 1314  
 Int Tel: +44 29 2086 8501 Int Fax: +44 29 2085 1314  
 E-mail: eriez@eriezeurope.co.uk  
 www.eriez.com