

Permanent Magnetic Head Roller



High Intensity – Rare Earth

Technical Data

Datasheet No. 603



Installed at the discharge end of flat or troughed belt conveyors, Permanent Magnetic Head Rollers are designed to remove tramp iron that cannot be removed by either a Plate or Overband magnet because of the conveyed product depth.

For the best possible protection against tramp metals use Permanent Magnetic Head Rollers in conjunction with Plate or Overband magnets.

Permanent Magnetic Head Rollers are available in two magnetic materials: standard strength, which uses ceramic magnetic material; and high strength, which uses high intensity rare earth magnetic material. The latter is the most popular due to its high contamination removal efficiency.

Cleaning

The unit is continuously self cleaning. Contamination enters the roller's magnetic field where it is attracted and held firmly on the belt. When it reaches the underside it passes out of the magnetic field and is discharged separately from the conveyed product, which continues on its normal trajectory.

Suitable Products

All conveyable products, wood chip, biomass, recyclables, aggregates, coal etc.

Suitable Locations

Conveyor head roller.

Benefits

- Allows difficult products to be screened
- High volume capacity
- Designed for 24 / 7 operation
- Removes large to medium sized contamination
- Continuously cleans
- No running costs

Category

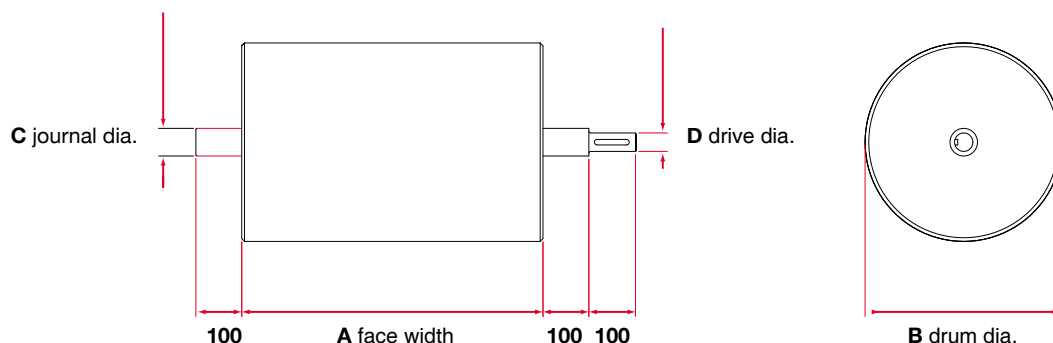
Primary.



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Sizes

Part No.	Width A	Dia. B	Dia. C	Dia. D	Weight (kg)
200 Series					
HRN2140	400	215	40	30	70
HRN2150	500	215	40	30	80
HRN2160	600	215	40	30	95
HRN2170	700	215	40	30	110
HRN2180	800	215	40	30	130
HRN2190	900	215	40	30	145
HRN21100	1000	215	40	30	160
300 Series					
HRN3140	400	315	50	40	110
HRN3150	500	315	50	40	130
HRN3160	600	315	50	40	150
HRN3170	700	315	50	40	170
HRN3180	800	315	50	40	190
HRN3190	900	315	50	40	210
HRN31100	1000	315	50	40	230
400 Series					
HRN4040	400	400	60	50	220
HRN4050	500	400	60	50	260
HRN4060	600	400	60	50	300
HRN4070	700	400	60	50	340
HRN4080	800	400	60	50	380
HRN4090	900	400	60	50	420
HRN40100	1000	400	60	50	260

All dimensions in mm

Performance

Magnetic performance

3.000 Gauss

Performance reading

On roller surface

Magnetic material

Rare earth neodymium iron boron

Magnet grade

N35 – Inspected and confirmed via hystergaph prior to use

Magnetic field depth

200 Series = 75mm; 300 Series = 100mm; 400 Series = 125mm*

Temperature

-40°C / +80°C

*Mild steel test piece 5mm \varnothing x 25mm long

Materials

Cover

304 grade stainless steel

End cheeks

Painted mild steel

Shaft

Mild steel

Options

Ceramic magnetic material

Rubber lagged diamond cut cover

Crowded detail

Protective paint coating

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