

At A Glance

-  **Protection: Primary**
-  **Feed Type: Conveyor**
-  **Material Type: NdFeb**
-  **Cleaning Type: Automatic**

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.



Benefits

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

Performance

Magnetic Performance	3,000 Gauss
Performance reading	On roller surface*
Magnetic field depth	200 Series = 3 inches*, 300 Series = 4 inches* 400 Series = 5 inches*
Temperature	-40°F / +176°F

Suitability

Suitable Products	All conveyable products, wood chip, biomass, recyclables, aggregates, coal etc
Suitable Location	Conveyor head roller

Materials

Magnetic Material	Rare Earth Neodymium Iron Boron - (NdFeb)
Cover	304 grade stainless steel
End Cheeks	Painted mild steel
Shaft	Mild steel

Cleaning

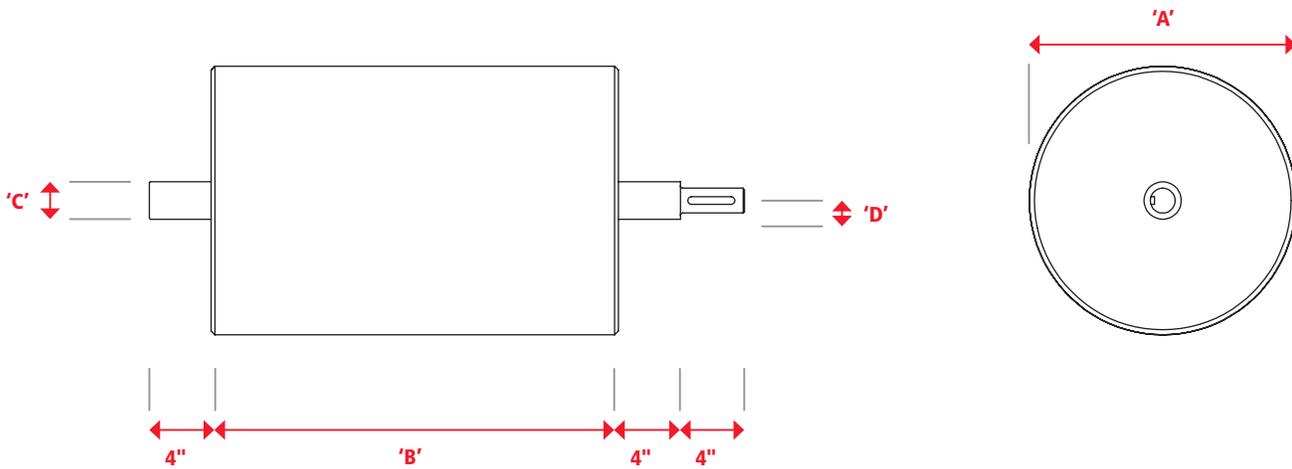
The unit is continuously self cleaning. Contamination enters the roller's magnetic field where it is attracted and held firmly on the belt. When it reaches the underside it passes out of the magnetic field and is discharged separately from the conveyed product, which continues on its normal trajectory.

Options

- Ceramic magnetic material
- Rubber lagged diamond cut cover
- Crowned detail
- Protective paint coating



Permanent Magnet Head Roller



Part Number (200 Series)	Diameter A (inches)	B (inches)	Dia. C (inches)	D (inches)	Weight (lbs)
HRN2140	8	16	1.6	1.2	154
HRN2150	8	20	1.6	1.2	176
HRN2160	8	24	1.6	1.2	209
HRN2170	8	28	1.6	1.2	242
HRN2180	8	31	1.6	1.2	286
HRN2190	8	35	1.6	1.2	319
HRN21100	8	40	1.6	1.2	352

Part Number (300 Series)	Diameter A (inches)	B (inches)	Dia. C (inches)	D (inches)	Weight (lbs)
HRN3140	12	16	2	1.6	242
HRN3150	12	20	2	1.6	286
HRN3160	12	24	2	1.6	330
HRN3170	12	28	2	1.6	374
HRN3180	12	31	2	1.6	418
HRN3190	12	35	2	1.6	462
HRN31100	12	40	2	1.6	506

Part Number (400 Series)	Diameter A (inches)	B (inches)	Dia. C (inches)	D (inches)	Weight (lbs)
HRN4040	16	16	2.4	2	484
HRN4050	16	20	2.4	2	542
HRN4060	16	24	2.4	2	660
HRN4070	16	28	2.4	2	748
HRN4080	16	31	2.4	2	836
HRN4090	16	35	2.4	2	924
HRN40100	16	40	2.4	2	1012

For non-standard sizes, please contact sales@eclipsetoolsinc.com

