

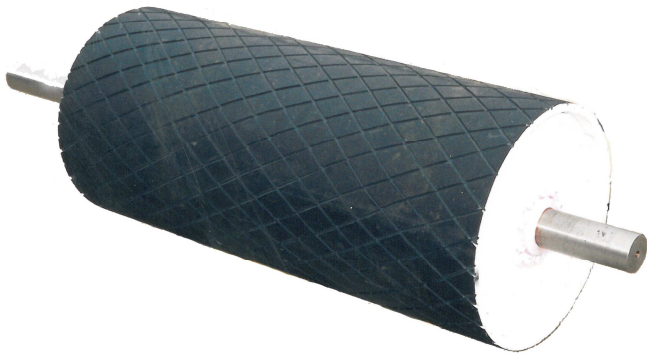
# Permanent Magnetic Head Roller

High Intensity – Rare Earth



Data Sheet No 603

## Product Data:-



### **Preface:**

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

Used in conjunction with the above mentioned units, magnetic Head Rollers will give the best possible protection against tramp metals.

These units are available in two magnetic materials, standard strength, which utilises Ceramic magnetic material and high strength, which utilises high intensity Rare Earth magnetic material, the later being the most popular due to it's high contamination removal efficiency.

### **Cleaning:**

The unit is continually self cleaning with its own rotation. As the contamination enters the rollers magnetic field it is attracted and held firmly on the belt until it reaches the underside where 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 ■ Continually cleans ■ No running costs ■

### **Category:**

Primary.

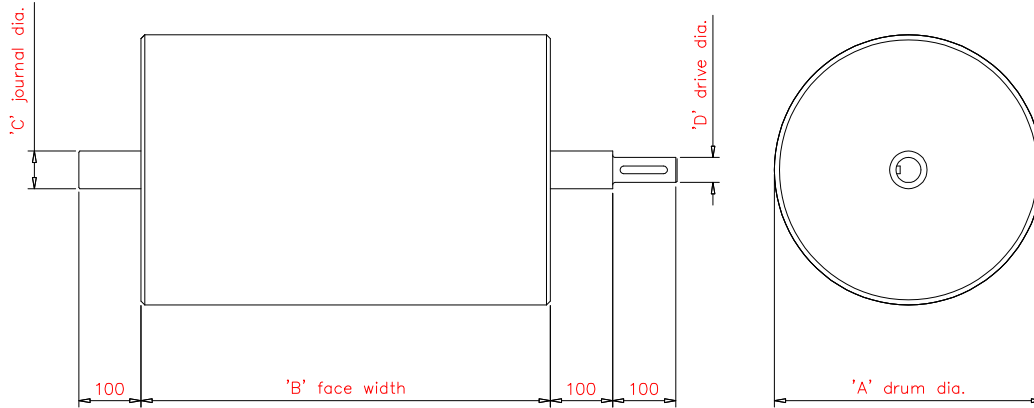


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## Technical Data:-



### Sizes:-

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

### Performance:-

All dimensions in mm

<b>Magnetic Performance:</b>	3,000 Gauss
<b>Performance Reading:</b>	On roller surface
<b>Magnetic Material:</b>	Rare Earth Neodymium Iron Boron
<b>Magnet Grade:</b>	N35 – Inspected & confirmed via hystergaph prior to use
<b>Magnetic Field Depth:</b>	200 Series = 75mm – 300 Series = 100mm – 400 Series = 125mm*
<b>Temperature:</b>	-40° C/ + 80° C

### Materials:-

<b>Cover:</b>	304 grade Stainless Steel
<b>End Cheeks:</b>	Painted Mild Steel
<b>Shaft:</b>	Mild Steel

### Options:-

Ceramic Magnetic Material  
 Rubber lagged diamond cut cover  
 Crowded detail  
 Protective paint coating