

# Magnetic Coolant Roller

High Intensity – Rare Earth

Data Sheet No 407

## Product Data:-



### **Preface:**

Designed specifically for the removal of ferrous metal contamination from a wide spectrum of cutting fluids and oils, Eclipse Magnetics lead the way in increasing efficiency by extending coolant life and reducing cutting tools wear.

Clean coolant is the key to improving your manufacturing effectiveness by:-

- Improving surface finish
- Extending tool/wheel life
- Improving coolant flow
- Cutting costs on coolant
- Reducing downtime

All processes which use pumped cutting fluids will benefit by using this equipment.

### **Typical Applications:**

- Grinding
- Milling
- Turning
- Broaching

### **Cleaning:**

Contaminated fluid is fed into the inlet feed tray, which allows the fluid to spread out evenly. The fluid then passes the adjustable baffle plate and onto the magnetic roll surface where the particles are attracted.

Once attracted, particles follow the rotation of the roll until it reaches the cleaning scrapper blade. This blade is positioned to efficiently wipe off any collected contamination allowing it to fall freely into a collection bin.

### **Suitable Fluids:**

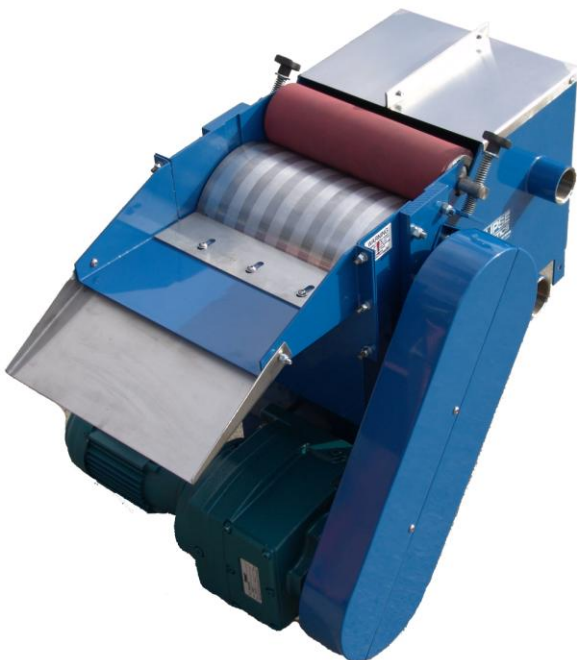
All neat and soluble oils.

### **Suitable Locations:**

Between machine and fluid tank.

### **Benefits:**

Continuous cleaning ■ High collection capacity ■ Removes coarse sized contamination ■ Scalable to suit any flow rate ■ Rare Earth high intensity magnetic material ■ Adjustable baffle plate ■ Low maintenance ■



BSEN ISO 9001 : 2000

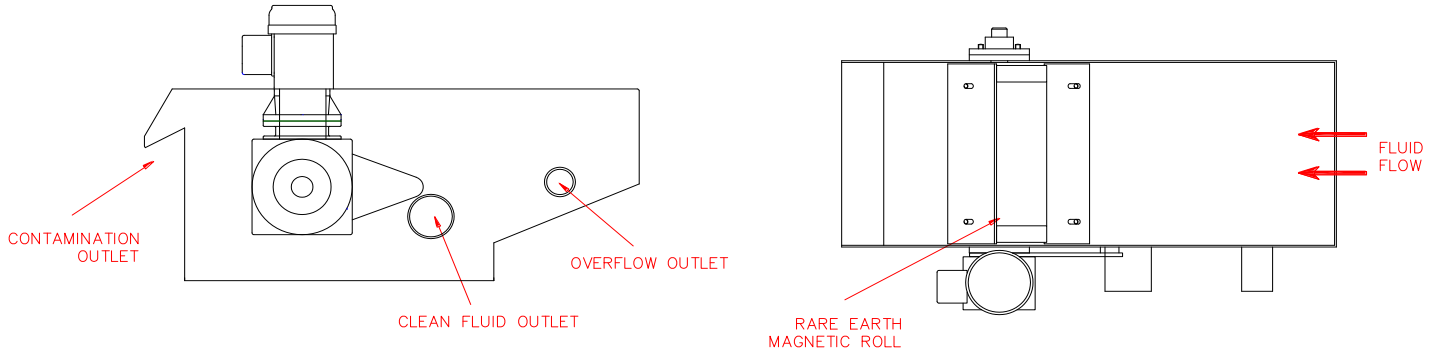


Certificate No. FM31278

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## Technical Data:-



### Sizes:-

Part No	Roll Dia	Roll Width	Tank Width	Tank Length	Outlet Pipe	Max Flow Rate ltrs/min
ECC15/300	150	300	350	450	50	180
ECC20/300	200	300	350	450	75	250
ECC20/500	200	500	550	650	75	400
ECC20/700	200	700	750	750	100	575
ECC20/900	200	900	950	1050	150	750

All dimensions in mm

### Performance:-

<b>Magnetic Performance:</b>	3,000 Gauss
<b>Performance Reading:</b>	On roll surface
<b>Magnetic Material:</b>	Rare Earth Neodymium Iron Boron
<b>Magnet Grade:</b>	N35 – Inspected & confirmed via hystergaph prior to use
<b>Temperature:</b>	5° C/ + 90° C

### Materials:-

<b>Tank:</b>	304 Grade stainless steel
<b>Roll Parts:</b>	Mild steel & aluminium
<b>Surface Finish:</b>	Powder coated (customer to specify colour)
<b>Motor:</b>	415 Volts – Industrial supply, 0.18Kw
<b>Adjustable Baffle Plate:</b>	304 Grade stainless steel

### Options:-

Extended in feed tank  
Units suitable for 2000 ltrs/min  
Different outlet and overflow port details  
High temperature Samarium Cobalt magnetic material, + 250° C