Magnetic Coolant Roller
High Intensity – Rare Earth

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 scraper 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 ■
Magnetic Coolant Roller
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Technical Data:

Sizes:

<table>
<thead>
<tr>
<th>Part No</th>
<th>Roll Dia</th>
<th>Roll Width</th>
<th>Tank Width</th>
<th>Tank Length</th>
<th>Outlet Pipe</th>
<th>Max Flow Rate ltrs/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECC15/300</td>
<td>150</td>
<td>300</td>
<td>350</td>
<td>450</td>
<td>50</td>
<td>180</td>
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<tr>
<td>ECC20/300</td>
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<td>250</td>
</tr>
<tr>
<td>ECC20/500</td>
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<td>500</td>
<td>550</td>
<td>650</td>
<td>75</td>
<td>400</td>
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<tr>
<td>ECC20/700</td>
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<td>700</td>
<td>750</td>
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<td>575</td>
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<td>900</td>
<td>950</td>
<td>1050</td>
<td>150</td>
<td>750</td>
</tr>
</tbody>
</table>

All dimensions in mm

Performance:

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

Materials:

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

Options:

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