Rod and Pipe 
Demagnetizing Device 
MM DN + RE
Powerful coils for industrial use

Combining a new technology with a robust design, the Rod and Pipe Demagnetizing Devices MM RE offer a maximum of performance and economy.

The devices are designed for continuous use, being particularly suitable for efficient demagnetization of large quantities of tube or rod material.

Technical innovations allow for a flexible use of these devices. Successful demagnetization of material of various diameters requires neither adjusting process parameters nor any reduction in performance. The system can therefore be operated efficiently with very little initial instruction.

If necessary integration in automated production lines is possible through a control interface provided by default.

Characteristics

- High throughput
- Demagnetization of solid material
- Ready for remote control and automation
  - integrated control interface 24 V I/O
  - optional light barrier for activation
- Heavy duty, for shop floor use
- Power factor correction
- High throughput speed due to complete saturation of the magnetic material
- Process controlled by Maurer Degaussing® Technology

Maurer Degaussing® Technology

The CFT® Constant Field Technology® keeps the magnetic field consistently up, regardless of the filling degree of the coil. CFT® Patent applied for.

Field strength

Intensity, number, and precision in the process of decreasing pole reversals, and the choice of the frequency. These elements are optimally set with our demagnetizing devices.

Power module

The power module includes the power electronics, the interfaces and the control processor of the demagnetizing system. The cables connecting the coil module and the power module are pluggable.

Power Module MM DN 750...1850

- Optimal, preset demagnetizing frequency
- Demagnetization of parts at fixed position by means of proprietary demagnetizing pulse (patent granted for)
- Easy integration in automated production lines through control interface 24 V I/O
- Interface to light barrier for automatic recognition of material
- Choice of three power levels
- Low power consumption due to power factor correction
- Indicator lamps for easy process monitoring
For high throughput speed and thick-walled material
The Rod and Pipe Demagnetizing Devices MM RE allow for demagnetizing pipes and thick-walled rods at a throughput speed of up to 3 m/s. An optional air cooling system increases performance by 30% during continuous operation.

Demagnetizing with an MM DN+RE offers you:
- Compliance with requirements for residual magnetism
- Easy welding
- No sticking of swarf s
- Improved efficiency of subsequent cleaning processes
- No cohesion of individual rods and pipes after demagnetization
- Avoiding problems on coating processes

Application
- Demagnetization of semi-finished parts in large quantities
- Demagnetization after magnetic crack inspection (alternating and direct current crack test)
- Demagnetization for large-volume production

Coil Module MM RE
The coil of the MM RE is mounted in a metal casing which prevents heat build-up and leakage fields. 10-ft. plug-in cables connect the Coil Module MM RE with the Power Module MM DN.

Information available on operating the Coil Module MM RE directly from the mains without the Power Module MM DN.
<table>
<thead>
<tr>
<th><strong>Coil Module</strong></th>
<th><strong>MM RE50</strong></th>
<th><strong>MM RE110</strong></th>
<th><strong>MM RE220</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions W x H x D</strong></td>
<td>400 x 320 x 300 mm</td>
<td>400 x 320 x 300 mm</td>
<td>540 x 450 x 420 mm</td>
</tr>
<tr>
<td><strong>Active opening</strong></td>
<td>50 mm</td>
<td>110 mm</td>
<td>220 mm</td>
</tr>
<tr>
<td><strong>Maximum field, peak</strong></td>
<td>68 kA/m</td>
<td>52 kA/m</td>
<td>49 kA/m</td>
</tr>
<tr>
<td><strong>Maximum field, with cooling</strong></td>
<td>89 kA/m</td>
<td>68 kA/m</td>
<td>64 kA/m</td>
</tr>
<tr>
<td><strong>Duty cycle</strong></td>
<td>S1, 100 %</td>
<td>S1, 100 %</td>
<td>S1, 100 %</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>~85 kg</td>
<td>~85 kg</td>
<td>~130 kg</td>
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<tr>
<td><strong>Frequency of demagnetization</strong></td>
<td>preset</td>
<td>preset</td>
<td>preset</td>
</tr>
<tr>
<td><strong>Protection class IP</strong></td>
<td>65</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td><strong>Configuration</strong></td>
<td>bolted</td>
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<tr>
<td><strong>Option mains operation</strong></td>
<td>On request</td>
<td>On request</td>
<td>On request</td>
</tr>
<tr>
<td><strong>Option air cooling</strong></td>
<td>On request</td>
<td>On request</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Power Module</strong></th>
<th><strong>MM DN750</strong></th>
<th><strong>MM DN1100</strong></th>
<th><strong>MM DN1850</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions W x H x D</strong></td>
<td>600 x 600 x 350 mm</td>
<td>600 x 600 x 350 mm</td>
<td>600 x 600 x 350 mm</td>
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<tr>
<td><strong>Connection</strong></td>
<td>3 x 380-480 VAC 50/60 Hz</td>
<td>3 x 380-480 VAC 50/60 Hz</td>
<td>3 x 380-480 VAC 50/60 Hz</td>
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<tr>
<td><strong>Power supply rating</strong></td>
<td>16 A</td>
<td>16 A</td>
<td>20 A</td>
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<tr>
<td><strong>Weight</strong></td>
<td>45 kg</td>
<td>45 kg</td>
<td>50 kg</td>
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<tr>
<td><strong>Protection class IP</strong></td>
<td>41</td>
<td>41</td>
<td>41</td>
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<tr>
<td><strong>Configuration</strong></td>
<td>wall fastening</td>
<td>wall fastening</td>
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</tr>
<tr>
<td><strong>Optional machine base</strong></td>
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<tr>
<td><strong>Optional light barrier</strong></td>
<td>LE001</td>
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<tr>
<td><strong>Optional magnetic field compensation</strong></td>
<td>On request</td>
<td>On request</td>
<td>On request</td>
</tr>
</tbody>
</table>

¹ Divide by 1,41 to obtain RMS value
² Frequency is given by the Power Module MM DN and is preset, range –10 Hz…60 Hz. Readjustment of the frequency only by the supplier
³ To adjust static fields (e.g. terrestrial magnetic field)

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