Swing Cathodes™

Swing Cathodes™ are an external-mount end block with additional, programmable motor that swings the magnet bar from side to side.

Swing Cathodes™ are designed to coat static substrates, including 3D and display coating.

With swing cathodes, uniformity of $< \pm 1\%$ can be achieved on a static substrate (compared to $> \pm 15\%$ on static substrates when not using swing).

### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>VA</th>
<th>Maximum Target Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMS</td>
<td>Up to 200 kW DC or MFAC</td>
<td>1500 V / 450 A</td>
<td>4000 mm</td>
</tr>
<tr>
<td>MMS</td>
<td>Up to 100 kW DC or MFAC</td>
<td>1500 V / 225 A</td>
<td>2500 mm</td>
</tr>
<tr>
<td>CMS</td>
<td>Up to 20 kW DC or MFAC</td>
<td>1500 V / 50 A</td>
<td>1000 mm</td>
</tr>
</tbody>
</table>

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Simulated Six Cathode Array with TRM-Bar™

*Diagram showing normalized thickness distribution across different cathode positions.*
SM Swing Cathode™ (SMS)

Dimensions in mm

VARYS

ABSOLUTE MINIMUM DRIVESHAFT
LENGTH = WALL THICKNESS +10mm

Ø 165 RECOMMENDED
Ø 140 MINIMUM

Ra 0.8

6X Ø 10.20 \( \Downarrow \) 23
M12X1.75 \( \Downarrow \) 16
ON A Ø 206.40 B.C.
DO NOT BREAK THRU

Ø 223 CLEAN UP

NOTE: THICKER THAN 30mm PLATE IS RECOMMENDED TO INCLUDE A PILOT BORE FOR THE CATHODE.
MM Swing Cathode™ (MMS)

Dimensions in mm

**ABSOLUTE MINIMUM DRIVESHAFT LENGTH = WALL THICKNESS +10mm**

**NOTE:** THICKER THAN 25mm PLATE IS RECOMMENDED TO INCLUDE A PILOT BORE FOR THE CATHODE.
CM125 Swing Cathode™ (CM125S)

Dimensions in mm

CM80 Swing Cathode™ (CM80S)

Dimensions in mm

Absolute minimum drive shaft length = wall thickness +20mm