Using a programmable magnet pack with a swing motion, the Swing Cathode™ is designed to coat static substrates.

**Features**
- Customizable drive shaft length
- Compact and flexible form
- Easy access water seal cartridge
- Patented power-delivery technology
- Simple design for fewer parts
- Patented target water fill/drain feature

**Benefits**
- Ideal for display or 3D part coating
- High-packing density: dual cathodes in a 400 mm space
- All utilities are external and remain attached during target changeover
- High-power with no impact from inductive heating
- No brush dust
- Simple, in-house maintenance
- Coater is kept dry during target changes
- \(< \pm 1\%\) uniformity with swing cathodes vs. static target uniformity \(> \pm 15\%\)
- Closer TTS is possible with a swing profile

**New Systems Installations**
- Coater modification and integration support available
- Compact design allows chamber design flexibility and the ability to install more cathodes in your system
- Integrate with SCI magnetics

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>V/A</th>
<th>Maximum cantilever target length*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMS</td>
<td>Up to 200 kW DC or 80 kHz MFAC</td>
<td>1500 V / 400 A</td>
<td>4000 mm</td>
</tr>
<tr>
<td>MMS</td>
<td>Up to 100 kW DC or 80 kHz MFAC</td>
<td>1500 V / 225 A</td>
<td>2500 mm</td>
</tr>
<tr>
<td>CMS</td>
<td>Up to 20 kW DC or 80 kHz MFAC</td>
<td>1500 V / 50 A</td>
<td>80 mm ID target: 1000 mm 125 mm ID target: 650 mm</td>
</tr>
</tbody>
</table>

*Can be longer if end supports are used*
SM Swing Cathode™

Dimensions in mm

NOTE: POSITION AND SIZE OF SERVO MAY VARY

30 MIN.

¢ 165 RECOMMENDED
¢ 140 MINIMUM

¢ 223 CLEAN UP

Ra0.8

6X ¢ 10.20 ↓ 18
M12X1.75 ↓ 18
ON A ¢ 206.40 B.C.
DO NOT BREAK THRU

NOTE: THICKER THAN 30mm PLATE IS RECOMMENDED TO INCLUDE A PILOT BORE FOR THE CATHODE.

Simulated Six Cathode Array with TRM-Bar™

Normalized Thickness

Simulation Position, mm

Cathode 1  Cathode 2  Cathode 3  Cathode 4  Cathode 5  Cathode 6  Sum

Dimensions in mm
MM Swing Cathode™

100mm MINIMUM DRIVE SHAFT WITH A 25mm WALL
(35mm MINIMUM WITH SPECIAL PARTS)

Dimensions in mm

NOTE: THICKER THAN 25mm PLATE IS RECOMMENDED TO INCLUDE A PILOT BORE FOR THE CATHODE.

Dimensions in mm
CM Swing Cathode™ with 125 mm ID target

95mm MINIMUM DRIVE SHAFT WITH A 20mm WALL
(36mm MINIMUM WITH SPECIAL PARTS)

Dimensions in mm

6x Ø 6.80 ▼ 16.75
M8x1.25 ▲ 13
ON A Ø 108 B.C.
DO NOT BREAK THRU

NOTICE: THICKER THAN 20mm PLATE
IS RECOMMENDED TO INCLUDE A
PILOT BORE FOR THE CATHODE.