

## Selecting SCI Side Mount (SM) Cathodes vs. Angstrom

### Rugged and Reliable

√      SCI                  Angstrom

With over 250 units running in the field, the SCI side mount cathode is a proven and rugged design. The SCI-SM is an extension of the popular SCI-SC right angle end block, widely used in large area coatings.

### Compact AND Powerful

√      SCI                  Angstrom

The SCI side mount cathode is small enough for modern solar cell machines, yet powerful enough to drive the world's largest architectural coaters. With a massive 110mm drive shaft, the SCI-SM can cantilever a 1.5 meter long target assembly of over 440 pounds (200 kg) with no outboard support or drive a 4 meter long cathode. Our patented power delivery method can deliver 450 amps thru a low maintenance internal rotary contact that generates no problematic brush dust. Even at about half the size, the SCI-SM can deliver more power than the Applied Materials side mount. The Angstrom SM cathode power rating is not currently published.

### Lowest Cost of Ownership

√      SCI                  Angstrom

The SCI side mount cathode has virtually no wear parts and is designed so all maintenance can be performed in your shop, not ours. Water and vacuum seals can be replaced quickly and inexpensively. Performing this maintenance yourself saves time and money and reduces the number of spare cathodes required. Apart from annual rotary seal changes, the SCI-SM cathode needs no regular maintenance.

### Flexible and Easy to Use

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The SCI-SM mounts in any orientation, with motors front or back. The magnet bar can be rotated from the back of the cathode to any sputter angle. These features allow the SCI-SM to fit into complex system geometries. With our advanced water fill and drain feature, you can sputter up without worrying about lack of cooling, where competitor's targets don't fill completely with water. The SCI-SM allows you to remove the target inside your coater without spilling water; keeping your system dry and your process stable.

### Industry Standard Targets and Magnet Bars

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All SCI cathodes are designed to operate with industry standard size (125mm) ID targets. Using this standard backing tube size saves money and cuts lead time. SCI backing tubes and magnet bars offer interchangeability with other major manufacturers such as Bekaert. All major target suppliers can provide SCI targets and backing tubes.

If you need further information about the benefits of SCI rotary cathodes, please contact us at [sales@sputteringcomponents.com](mailto:sales@sputteringcomponents.com)