

Magnetics

RAM-BAR™

The Remotely Adjustable Magnet Bar (RAM-Bar™) lets operators position and fine tune the distance between the magnetics and the target surface from outside the system and during operation to eliminate costly system shutdown.

The RAM-Bar™ is compatible with all SCI end blocks for 125 mm ID targets and is available with any of SCI's Advanced Magnetics.

It allows for up to 4 mm vertical difference between adjustment locations for fine tuning when uniformity requirements are the most demanding.

The system has robust industrial communication via Ethernet gateway and fiber optics for control. Multiple magnet bars can be controlled through the coater PLC or using a dedicated computer. The software is easy-to-use and customizable.

Batteries are easily replaceable standard rechargeable Li-ion packs.

The RAM-Bar™ has two methods of operation: precision uniformity adjustment and constant plasma impedance. The constant impedance method can reduce process drift and help stabilize the deposition rate throughout the target lifetime.



TECHNICAL SPECIFICATIONS

Backing Tube Length ▶ 550 - 4000 mm

Maximum Target Diameter ▶ 180 mm

Adjuster Pitch ▶ 305 mm (12 in.)

Maximum Film Uniformity ▶ $< \pm 1\%$

Movement Precision ▶ $\pm 250 \mu\text{m}$ of travel

Application ▶ Optical thin films with tight uniformity requirements