



Gencoa magnet bars

Gencoa magnetic arrays for rotatable magnetrons

Gencoa have been perfecting magnetic field designs for all forms of sputter sources for over 20 years. The breadth of knowledge ensures that both the target erosion we be optimized in combination with the process and power mode demands. Combining both aspects requires a range of alternative magnetic designs, and Gencoa have the expertise to deliver the whole application area for rotatable magnetrons.

Magnet bars

Application	Recommended Options	Variations
Hard and Deco Coating (reactive gas)	Balanced & Unbalanced Multiple cathode magnetic linking Active Anode magnetic linking	152mm, 75 to 105mm OD 3 levels of magnetic unbalance – standard SSF, PP & XPP (152 OD only for XPP) DLIM two cathode linking Cross chamber linking VTR variable unbalance VTR for Hipims
Web Coating - plastic	Balanced Active Anode magnetic linking	152mm, 75 to 105mm OD SSF520 or HS750 combined with AA for low temp AA for Advanced Energy DRP
Large Area Glass	Balanced Active Anode magnetic linking	152-170mm OD
Display ITO	Balanced HS1000 Gauss High Strength Active Anode magnetic linking	SSF520 G is standard strength, HS750 & HS1000 G are the HS options Reactive ITO DC or AC
Solar PV	Balanced Active Anode magnetic linking	SSF520 for 152 OD, HS1000G 170mm OD
Solar Absorbers	Balanced Active Anode magnetic linking	SSF520 for 152mm OD, MF power – combined with AA for reactive gas activation and dense films
Cell Phone Transparent Carbon V±DLC anti-scratch	Balanced Double Cathode Active Anode magnetic linking	SSF520 for 152 OD & Switching AC or DC pulse power modes

All Gencoa magnetic are arrays contained with a welded stainless steel housing to avoid any degradation. The array support tubes/beams have a high I value to prevent deflection in order to ensure magnetic field uniformity over the target.



Every magnetic array is magnetically scanned to check the field variation tolerance for Quality Control purposes. Magnetic field adjustment is by deflection or magnetic shunts. Generally use of the Active Anodes eliminates any requirement for field adjustment.

Magnetic arrays can be designed for non-Gencoa rotatable magnetrons.

For further information on Gencoa's magnet bar solutions for rotatable magnetrons, contact sales@gencoa.com

Gencoa rotatable end-block type	Magnetic packs available
GRSS Small drop-in design 75-105mm OD	SSF, HS, DLIM, PP
GRSM Medium drop-in design 125-152mm OD	SSF, HS750, HS1000, DLIM, PP, XPP
GRSC Cantilever design 100-152mm OD	SSF, HS750, HS1000, DLIM, PP, XPP
GRSV vertical top or bottom mount, 75-152mm OD	SSF, HS750, HS1000, DLIM, PP, XPP

Constant innovation, customer satisfaction, process support, in-depth understanding, industry experts. Simply better solutions. Gencoa.

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