

The Gencoa Rotatable System (GRS) 2022 family of rotatable magnetrons have been 're-imagined' to provide the same low maintenance, high performance product for which Gencoa is known. Featuring GRS-M and side-mount (GRS-C) versions, the updated range has eliminated most routine maintenance.

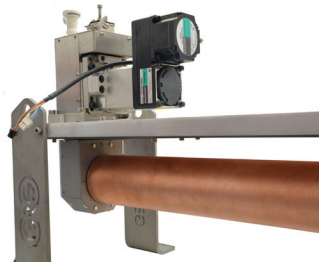
#### KEY FEATURES

1. No maintenance of power delivery system
2. No maintenance of drive belt tension
3. No water to vacuum seal (double sealed target and drive)
4. Low leak rate  $10^{-8}$  mbar l/s Helium (no lip seals)
5. High load bearing capacity and high water flow

# ROTATABLE MAGNETRON

# ROTATABLE

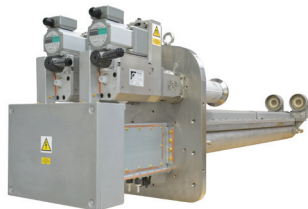
The Gencoa GRS 2022 technology uses in-house sputter coating on different components to create a design that enables maintenance free operation. This is combined with bearing support within a load support block that accurately aligns the target and drive system.



GRS-S

## GRS-S

GRS-S brings rotatable cathode technology in a compact space for targets in the range of 70-105mm OD. The GRS-S is designed as a convenient way to upgrade planar magnetrons without a loss of film uniformity.



GRS-C

## GRS-C

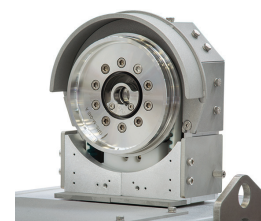
The cantilever mounted version is an external end-block for insertion through the vacuum wall into the chamber. It has bearing support on both sides of the chamber wall to maximise stiffness of the assembly.



GRS-V

## GRS-V

The GRS-V is a purpose-designed vertical source and enables motor or manual adjustment of the race track angular position for target pre-cleaning or uniformity control.



GRS-M

## GRS-M

Developed as a high capacity drop-in rotatable for target diameters of 152mm or greater, the GRS-M can be fitted with targets of up to 2.5m in length, in a vertical or horizontal orientation. The compact high load capacity of the GRS-M end-block is ideally suited for vertical display coaters or horizontal in-line coating systems.

## ACCESSORIES

An important element to an optimum rotatable sputtering process are matched magnetics, gas delivery and anode design. Typically rotatable magnetrons are either used in a reactive oxide processes or for high rate metallizing.

By selecting the best suited magnetic packs with anode and gas zone positioning, dramatic improvements can be made to process speeds and layer quality. Gencoa offer various magnetics, gas bars and active anodes as well as on-site process tuning if required.

## FURTHER INFORMATION

Contact: [sales@gencoa.com](mailto:sales@gencoa.com) or visit [www.gencoa.com/grs](http://www.gencoa.com/grs)

