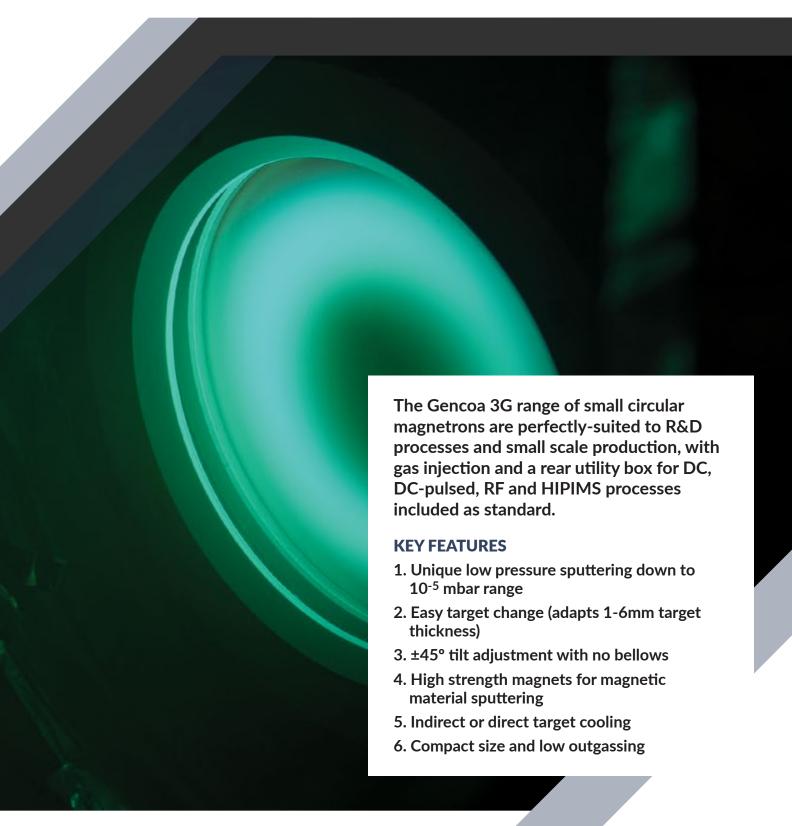


3G CIRCULAR MAGNETRON



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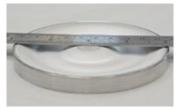
3G CIRCULAR

APPLICATIONS

- Research and development of functional, optical and magnetic thin film materials
- Confocal deposition onto rotating substrates
- Multilayer, cluster and hybrid layer stacks







4" high yield (HY) target erosion

The 3G circular range of HV sources from Gencoa caters for applications from R&D to small scale production.

With newly-developed magnetic fields, the sources are capable of performing in the 10⁻⁵ mbar range, delivering improvements to the deposition rate, reduced arcing, fewer impurities and a higher density coating.

The 3G range include an ultra-compact low outgassing design, indirect or direct target water cooling, ±45° tilt adjustment, and internal gas injection.

The sources can be fitted with a choice of magnetic and mechanical options, leading to performance benefits appropriate for differing applications, and are built to reliably work with DC, RF, pulsed DC and HIPIMS power supplies.

High yield (HY) magnetics can be fitted to target diameters of 4" and above for sputtering of precious metals, delivering target usage of >40%.



MECHANICAL OPTIONS

All magnetrons in the 3G range are available for internal or external mount, with the following additional options: manual or pneumatic shutter, chimney, wallmount feedthrough, hidden/water-cooled anode.

SPECIFICATIONS

	2" TARGET DIAMETER	3" TARGET DIAMETER	4" TARGET DIAMETER	5" TARGET DIAMETER
TARGET SIZE (BONDED)	50.8mm (2") OD x 1-3mm	76.3mm (3") OD x 1-3mm	101.7mm (4") OD x 1-6mm	127mm (5") OD x 1-10mm
	3mm (1/8") backing plate	3mm (1/8") backing plate	3mm (1/8") backing plate	6mm (1/4") backing plate
TARGET SIZE (MONOBLOCK)	50.8mm OD x 1-6mm	76.3mm OD x 1-6mm	101.7mm OD x 1-10mm	127mm OD x 1-15mm
INTERNAL MOUNT	25.4mm OD 300mm/12" shaft	25.4mm OD 300mm/12" shaft	25.4mm OD 300mm/12" shaft	40mm OD 300mm/12" shaft
EXTERNAL MOUNT	DN80-ISO LF	DN100-ISO LF	DN160-ISO LF	DN200-ISO LF
OPERATING PRESSURE	$7 \times 10^{-4} \text{ mbar - } 1 \times 10^{-2} \text{ mbar}$	$7 \times 10^{-4} \text{ mbar - } 1 \times 10^{-2} \text{ mbar}$	$7 \times 10^{-4} \text{ mbar - } 1 \times 10^{-2} \text{ mbar}$	7 x 10 ⁻⁴ mbar - 1 x 10 ⁻² mbar
POWER CONNECTION	N type or 7/16 or HN	N type or 7/16 or HN	N type or 7/16 or HN	N type or 7/16 or HN
MAX. DC	1kw, DC/pulsed DC	1.4kw, DC/pulsed DC	2Kw, DC/pulsed DC	5Kw, DC/pulsed DC
MAX. RF	200W	750W	1500W	2500W
WATER TUBE	1/4" Pu	1/4" Pu	1/4" Pu	3/8" Pu
WATER FLOW RATE	3.2 litre/min	3.4 litre/min	3.8 litre/min	5 litre/min
GAS	1/8" StSt tube	1/8" StSt tube	1/8" StSt tube	1/8" StSt tube
TILT	±45°	±45°	±45°	±45°
MAGNETICS	HS	HS	HS, HY	HS, HY

FURTHER INFORMATION

Contact: sales@gencoa.com or visit www.gencoa.com/3g-circular

