**Standard End Block Rotatable Magnetron Specification Sheet**

**Recommended Substrate Distance (B)**: 75-125mm

**Target Length Range**: 1.0m - 4.0m

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**Lid Mounted Bottom View**

**Lid Mounted Side View**

**Lid Bottom View**

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* LID SOLDER SEPARATELY
* CONSULT THE FACTORY FOR DIFFERENT LID THICKNESSES

ALL DIMENSIONS IN MILLIMETERS

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Cathode Power

MAX DISCHARGE CURRENT  320A
MAX DISCHARGE POWER  120kW
MAX DISCHARGE VOLTAGE  1500V [DC, PULSED DC, or AC RMS]
POWER CONNECTION  CABLE CLAMP, 1 AWG [55mm²] MIN WIRE SIZE

SPUTTER UNIFORMITY  ±3%
OPERATING PRESSURE  2.6x10⁻⁶ mbar [2mT] - 1.3x10⁻⁶ mbar [10mT]

Cooling

DRIVE ASSEMBLY WATER CONNECTION  1" FEMALE JIC FITTING / 37°
DRIVE ASSEMBLY WATER FLOW  150LPM [40GPM]
BRUSH ASSEMBLY WATER CONNECTION  3/8" COMPRESSION FITTINGS
BRUSH ASSEMBLY WATER FLOW  15LPM MAX [4GPM] PER TARGET TUBE
WATER SUPPLY TEMPERATURE  15°C - 40°C [60°F - 105°F]
WATER SUPPLY MAXIMUM PRESSURE  7bar [100PSI]
WATER SUPPLY ELECTRICAL RESISTANCE  850kΩ-cm MINIMUM RESISTANCE
PIPE / HOSE MINIMUM SUPPLY SIZE  DRIVE ASSEMBLY - 20mm ID [1"]
                                  BRUSH ASSEMBLY - 10mm OD [3/8”]

Rotation Motor

POWER REQUIREMENT  200 - 230VAC 3PH, 50/60Hz, 200W
RATED OUTPUT SPEED  13RPM [50Hz] / 15RPM [60Hz]
CONNECTION  TERMINAL BOX

Rotation Sensor

POWER REQUIREMENT  24VDC @ 150mA
TYPE  650nm VISIBLE RED CLASS 1 LASER
I/O  OPTICALLY ISOLATED 24VDC
CONNECTION  4 PIN, M12 ROUND MALE PLUG, SINGLE KEY

Target Tube

MATERIAL  18-8 STAINLESS STEEL (NON-MAGNETIC)
STOCK DIMENSIONS  125mm ID, 133mm OD
REFERENCE DRAWING  R00000L005