

# DEPTEC “Q II” SOURCE

There are many Varian 3290 Sputtering systems in the field estimated 500, playing a key part in metallization processes in many Semiconductor FABs and Laboratories around the world. Many of the Magnetron Sources are now nearing EOL and the Deptec “Q II” is a perfect upgrade/replacement for them.

## Original Quantum PVD Source:

- The Varian Quantum PVD source has been in use for over 20 years on the Varian 3290 Sputter system.
- The Quantum source is manufactured from thermoset plastic which has a tendency to deform over time due to temperature and pressure effects
- Electrical components, High Voltage and Ground contacts, are set into the plastic during molding and not replaceable.
- Water fittings are screwed into plastic threads in the housing and are easily damaged.
- Water lines are grounded to the inset ground plane which is subject to galvanic corrosion

## Deptec® “Q II” PVD Source

- The Deptec replacement source, the “Q II” is machined from stronger material and is less susceptible to deformation due to mechanical and thermal stresses.
- Combination water and ground inserts are manufactured from stainless steel and mechanically more reliable, resistant to corrosion and fully replaceable in the field.
- High Voltage contact ring is removable and replaceable in the field.
- The Deptec replacement source, the “Q II” is designed to conform to the original Varian dimensional specifications allowing the use of the original target design for seamless integration.
- Optional upgrades to screw clamp targets for better electrical contact and improved water sealing.
- All other original source components, bearing seal assembly, rotation sensor, rotation motor and manipulator directly mount to the new source for easy parts support.

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Deptec offers OEM or OEM Quality replacements for all parts associated with the Quantum Sources:

- Bearing Seal Assemblies
- Magnet Extension Shafts
- Magnet Shims
- Rotation Sensors
- Motors and Mounts
- Water Fittings/Adapters
- U and S Type Magnets



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