

MKS ASTEX® Remote Plasma Source (RPS) ASTRON



The **MKS ASTEX®** Remote Plasma Source (RPS) ASTRON is mainly used in CVD and PVD process as a plasma clean technology which use a separate plasma discharge upstream of the deposition chamber.

Available for **AMAT®** Endura / Centura / Producer and for **LAM®/NOVELLUS®** and **SPTS®** multi-wafer deposition systems

As the leading service supplier for MKS RPS , Global Technologies is providing a unique and complete overhaul service air for all MKS ASTEX® ASTRON Remote Plasma Source.

During the refurbishment of Remote Plasma Source (RPS) we perform the **anodization of Process chamber** (based on OEM specification) made with **higher thickness to extend lifetime**.

The repair process of RPS includes precise dimensional controls and **replacement of all defective parts and power parts as a preventive measure** against failure

To manage minimum production downtime, Global Technologies proposes exchange options and Emergency service.

MKS ASTEX® PRODUCTS MAIN REFERENCES

ASTRON i 2L	0920-00013 0190-41326
ASTRON I 3L	0190-47768 0190-26744 0190-24886 0190-41329
ASTRON ex 6L	0920-00131 0920-00057 0190-40602
R*evolution	AX-7690 AX-7695

MKS ASTEX® Remote Plasma Source are fully inspected, refurbished and tested to OEM Specifications

Incoming Inspection

- Plasma initialization test
- Depth failure analysis
- Connectors and cables test

Refurbishment Process

- Disassembly
- Cleaning
- Replacement of parts damaged or out of specification
- Replacement of power parts as a preventive maintenance
- Refurbishment of plasma chamber : anodization
- Replacement of seals, ignition window/electrode, heat conducting sheet

Final Control

- Leak test with helium
- Purging with Argon : 30min
- Plasma ignition tests : different pressure values
- Burn-in with pure argon plasma
- Simulating gas mixture after ignition using N2 as a substitute for NF3
- Recording maximum power consumption
- Test of temperature protection
- External cleaning
- Maintenance report

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