

## PERFORMANCE ENHANCEMENTS

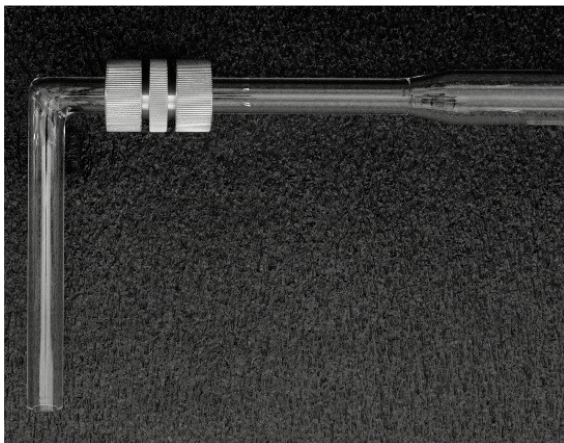
### Sustainable Solutions is Our Ongoing Commitment

Concept Part Solutions is dedicated to extending the lifetime of your maturing semiconductor manufacturing equipment. As your toolsets age and new processes emerge, we pursue every opportunity through our Continuous Improvement Program (CIP) to offer important enhancements that increase the reliability, productivity, and performance of your install base.

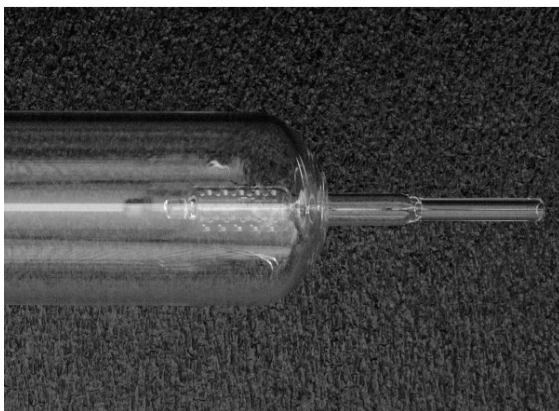


## PEP3510

# Unified Plasma Tube



Close Up – Plasma Tube Top Section – No Ball Cup Design



Close Up – Plasma Tube Bottom – Fused Bubbler and no Ball Cup Design

**Concept Part Solutions is committed to finding opportunities that improve the performance of its licensed equipment portfolio. CPS is proud to announce the release of the Unified Plasma Tube enhancement for the PEP3510 platform.**

The new plasma tube design combines two separate consumable quartz pieces into a single unit. This reduces potential of quartz breakage during normal handling by eliminating the step of feeding quartz bubbler into the quartz plasma chamber. It also improves installation methodology by eliminating the subjective bubbler alignment step which oftentimes leads to broken quartz and compromise of process chamber region.

The new design also eliminates the two ball cup joints and the plasma exposed o-rings. These o-rings are typically high cost items and the major source of consumable expense for the PEP platform. The exposed o-rings are a source of particles and leak integrity. By not having to regularly PM these o-rings, the maintenance team does not need to remove and re-install the quartz pieces, ultimately improving quartz lifetime (less potential for accidental breakage, less maintenance downtime)

### Upgrade Benefits

- Improved cost of ownership by eliminating high cost o-rings
- Reduction in required maintenance downtime for o-ring change out; reduces chances of broken quartz during de-installation and re-installation of glass parts
- Simplified installation; ball cup clamps replaced with ultra-torr fittings



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PEP3510  
**Unified Plasma Tube**

**Get More Information on  
System Performance Enhancements**

To find out how to improve the performance and productivity of your CPS supported systems, call your local CPS Sales and Service Office for complete ordering information, or visit [www.conceptpartsolutions.com](http://www.conceptpartsolutions.com).

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**System Prerequisites:**

None

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**Ordering Information:**

**Unified Plasma Tube Upgrade Kit**

**02-269278-00**

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Some Upgrades may require an audit of your System; Contact your local CPS Representative to verify the Upgrade Kit before ordering.