

## PERFORMANCE ENHANCEMENTS

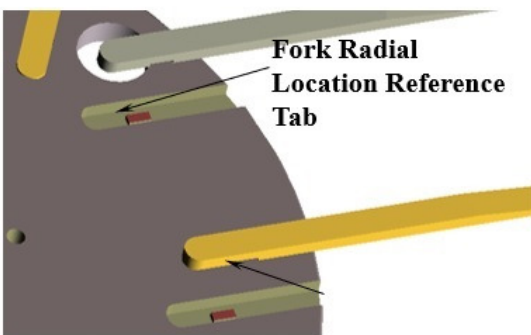
### Sustainable Solutions is Our Ongoing Commitment

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.



## Concept One Dielectric

# Ceramic Deflector Fork Hub Assembly



\* **No Inconel Retainers; eliminates hardware degradation that is a source of particles**

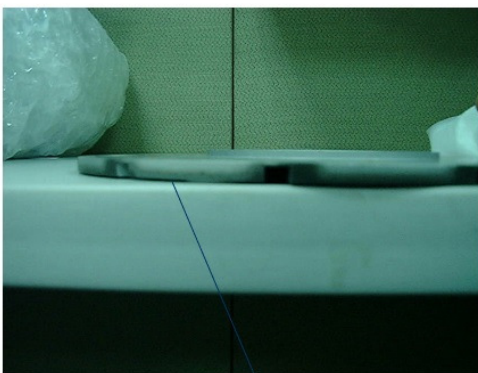
\* **Simplified Bottom Plate Grooves and fewer screws/washers ease assembly of parts**

**Reducing particulates, spare parts consumption and system maintenance interaction is a vital aspect to improving the overall efficiency of the C1D toolset. The Ceramic Deflector Fork Hub Assembly improves the lifetime of key process parts and reduces maintenance activity.**

This performance enhancement reduces the fork droop that can occur during normal tool operation and eliminates the malleability that can cause the existing components to lose their tensile strength.

The Ceramic Deflector Fork Hub redesign ensures that during day-to-day operations, the forks will not droop, causing them to scrape the heater block and generate additional backside particles (BSP).

In addition, the lifespan of the new hub increases the current lifetime PM recommendation of 50K wafers by 4X. Furthermore, because the new hubs require less maintenance, PM frequency and man hours are reduced, resulting in lower Cost of Ownership (COO) over tool lifetime.



0.03 inch gap

At 50K wafers processed, the Al Hub begins to show signs of warping; The Ceramic Hub maintains flatness integrity

### Upgrade Benefits

- Decrease in recommended PM period
- Ease of Assembly
- Back Side Particle reduction due to elimination of fork drag and removal of Inconel retainers
- Cost Reduction



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Concept One 150mm and 200mm  
**Ceramic Deflector Fork Hub Assembly**

**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:**

Concept One 200, Standard Forks	05-408058-00
Concept One 200, Thin Forks	05-408056-00
Concept One 150, Standard Forks	05-408057-00

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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.