Another breakthrough from Veeco.

This time it’s EPIK.

Introducing the new TurboDisc EPIK700 MOCVD System

September 4, 2014
EPIK700 Raises the Bar TO A NEW LEVEL of Productivity and Yield to Maximize Customers’ Profitability

2010
K465i Becomes Market Leading MOCVD System

- #1 selling MOCVD tool
- Leader in yield and productivity

2011-2013
MaxBright Becomes Market Leading MOCVD System

- #1 selling MOCVD tool
- Compact cluster architecture
- MaxBright is yield and productivity leader

2014
EPIK700 Extends Veeco’s Leadership

- Highest productivity MOCVD platform with up to 20% improved CoO
- Best in class yield
- Fastest to production with easy process transfer
- Most efficient capital investment

(Ref: IHS Research)
EPIK700 to Drive LED Bulb Cost Roadmap Lower

- Higher Capacity 31x4", 12x6"
- Improved CoO up to 20%
- Best in class yield
- Highest productivity

Note: Actual LED Bulb ASP may vary depending on customer use cases and region.
LED Industry’s Highest Productivity and Lowest Cost of Ownership MOCVD System

Highest productivity MOCVD platform with up to 20% improved CoO compared to previous generations

Designed for best-in-class uniformity which provides greater wafer yield

Fastest to production with easy process transfer

Most efficient capital investment for maximum profitability

EPIK700 Significantly Lowers Customers’ Costs Per Wafer
EPIK700 Maximizes Productivity

Key innovations:

- MaxBright
- Larger Capacity
- 31x4”
- 12x6”
- Advanced Automation
- AcuRamp™ Advanced Temperature Control
- Improved Serviceability
Best-in-Class Uniformity with Key Innovations

Key innovations:

- **MaxBright**
- **IsoFlange™ Technology**
  - Improved flow uniformity
- **TruHeat™ Technology**
  - Improved temperature uniformity

EPIK700
Capacity Increase Improves Throughput

Wafer carrier capacity increase

**Veeco Reactor Generation Timeline**

<table>
<thead>
<tr>
<th>Year</th>
<th>Chamber Type</th>
<th>Capacity Increase</th>
<th>Throughput (WPM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008-2011</td>
<td>K465i/MaxBright</td>
<td>14x4&quot;</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>EPIK700</td>
<td>31x4&quot;</td>
<td>122%</td>
</tr>
</tbody>
</table>

**K465i/MaxBright Chamber**

**EPIK700 Capacity**
EPIK700 Difference – Up to 20% CoO Advantage

Yielded throughput  (K wafers/year)

Capital efficiency  (WPD/$M)

Footprint efficiency  (WPD/m²)

CoO per wafer  ($/wafer)