



VEECO MaxBright TurboDisk MOCVD
Serial nr 10089214
Vintage Dec 2011 200mm

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Location in Fab release Feb 2023 condition "As Is"

Manufacturer: Veeco

Type: MaxBright TurboDisk MOCVD

Date of manufacture: 2011

Configuration

2 465mm reactors currently setup for 3x8inch wafers

Optional 6x6inch or 14x4inch Central robot to transfer wafer carriers

Modular frame

Nexus control software

Complete system including all subsystems (without drypumps)

Machine comes with complete spareparts set incl carriers, carrier storage.

In current setup a oven was used to anneal this machine can be supplied with the machine (see page 4)



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TurboDisc GaN MOCVD System Comparison



LED Manufacturer Concern:

“LED manufacturing is very competitive due to industry consolidation and the decreasing price of LED bulbs. I am under pressure to lower manufacturing costs to protect my gross margins while adding capacity to my fab. We are running at about 90% capacity right now and need to add capacity to meet accelerating demand for general lighting adoption. Therefore, we need high productivity, high yield and reliable MOCVD systems.”

Solutions:

Platform	Introduced	Reactor Size (mm)	4" Wafers	6" Wafers	Yield	Software Features	Productivity	Multi-Reactor Capable
EPIK700	2014	700	62 2 Reactors	24 2 Reactors	Best	Best	Best	✓
MaxBright	2011	465	56 4 Reactors	24 4 Reactors	Better	Better	Better	✓
K465i	2010	465	12	6	Better	Better	Good	

TurboDisc® MOCVD Product Release Timeline



K465i™ MOCVD System

- > Uniform gas injector FlowFlange® for improved flow distribution
- > Enhanced uniformity and yield
- > Improved ease-of-use
- > Nexus® control software



MaxBright® Multi-Reactor MOCVD System

- > Cluster tool in 2 or 4 chamber configuration
- > Central robot to transfer wafer carriers
- > Modular frame and shared gas panel design
- > Nexus control software



EPIK700™ MOCVD System

- > Up to 20% cost per wafer reduction compared to previous generations
- > Best-in-class uniformity drives greater yield in a tighter bin
- > Highest productivity reactor generates 2.5x throughput advantage compared to previous reactors
- > Seamless process transfer from existing TurboDisc MOCVD systems

Find out more at www.veeco.com/mocvd
or call 1.888.24.VEECO

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