



26th Annual Needham Growth Conference

January 2024

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Contents

Overview

Veeco at a Glance Who is Veeco?

Served Available Market

Semiconductor Compound Semiconductor

Financials

Updated 2023 Guidance and Initial 2024 Outlook Revenue By End-Market



Veeco at a Glance



Global provider of semiconductor capital equipment

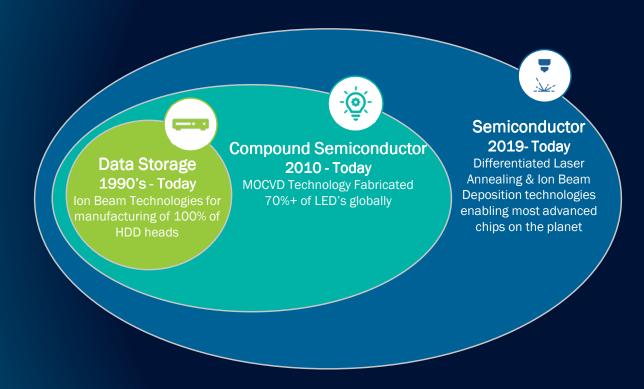


Differentiated technologies with opportunities to expand served available markets





Who is Veeco?





Strong History

Solving materials challenges

Growth Focus

Semiconductor & Compound Semiconductor

Well Positioned

Leading edge customers drive growth

Available Market



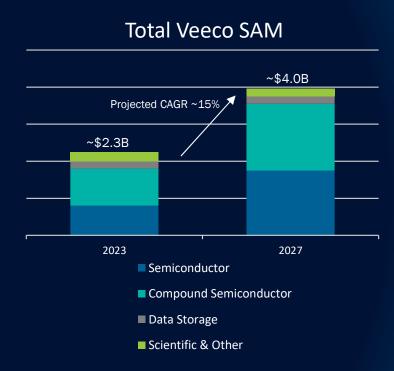
Veeco's Served Available Market to grow to ~4.0B



Semiconductor opportunity expected to grow to ~\$1.7B driven by Laser Annealing, Nanosecond Annealing and Ion Beam Deposition equipment



Compound Semiconductor opportunity expected to grow to ~\$1.8B driven by Epitaxy equipment for Power Electronics (SiC & GaN) and MicroLED's



SAM - Served Available Market SiC - Silicon Carbide GaN - Gallium Nitride

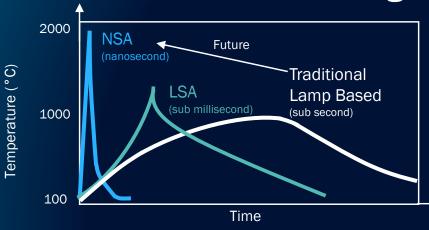
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Semiconductor SAM Growth



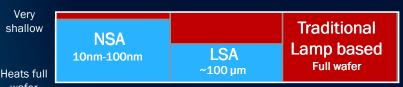
Laser Spike Annealing, Nanosecond Annealing and IBD300 to drive growth in Semiconductor market

Nanosecond Annealing Opportunity



- Solidifies Veeco's laser annealing leadership & helps drive the Semi industry roadmap
- Shipped two NSA500TM evaluations to Tier 1 logic customers in Q4 2023
- Opportunity to expand SAM in Logic and Memory
 - Low thermal budget steps including Backside Power Delivery and Contact Anneal for advanced nodes
 - Material Modification steps including void removal, recrystallization and grain growth
- Potential for initial HVM orders in late 2024 or 2025





NSA to expand laser annealing to broad range of advanced node applications

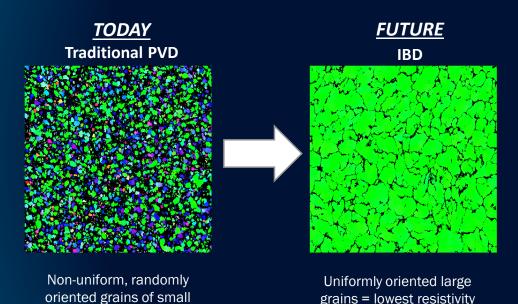
Heating Depth

Very shallow

wafer

IBD300- 300mm Front End Semi Opportunity

Illustration of grain size and distribution



- Lower resistance metals essential for improved device performance & customer scaling
- IBD displays lower resistivity vs traditional PVD based on Tier 1 customer data
- Shipped two IBD300 evaluations to Tier 1 memory customers in Q4 2023
- Potential for initial HVM orders in late 2024 or 2025

Capitalizing on decades of experience and core IBD technology in Semiconductor market

size = higher resistivity

Veeco Growth Technologies for Artificial Intelligence



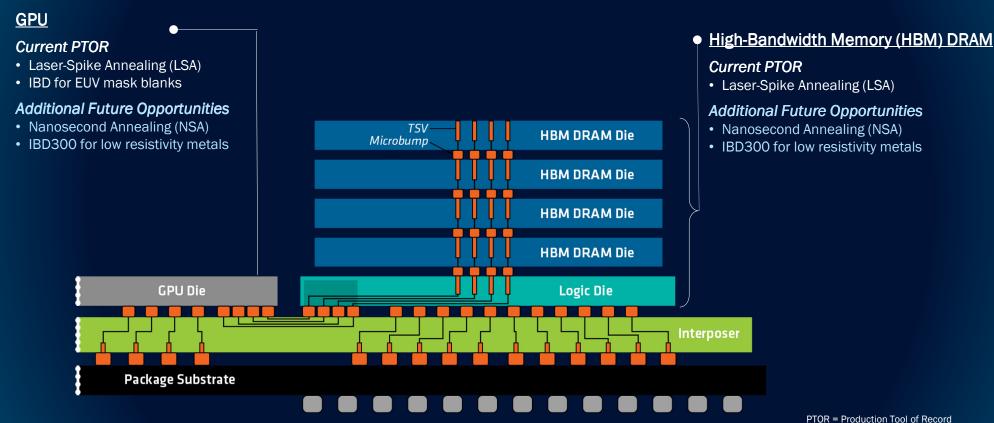
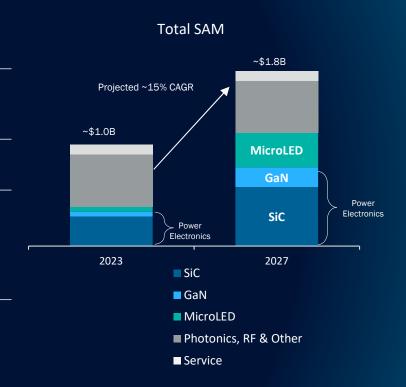


Illustration of typical Al chip

TSV = Through Silicon Via GPU = Graphics Processing Unit HBM – High-Bandwidth Memory EUV – Extreme Ultraviolet IBD- Ion Beam Deposition

Compound Semiconductor SAM Growth

	Key Drivers of SAM Growth (Systems Only)	2023	2027
SiC Power Electronics	Single wafer SiC CVD for 8 inch addresses high voltage and power applications such as EVs	~\$300M	~\$600M
GaN Power Electronics	Single wafer MOCVD platform for 8 & 12 inch GaN wafer sizes	~\$50M	~\$200M
MicroLED	 MOCVD batch platform for traditional red MicroLED Single wafer MOCVD platform for disruptive red, green and blue on same wafer using GaN on Si 	~\$50M	~\$350M



Significant growth opportunities in Epitaxy Equipment for Power Electronics and MicroLED's

Financials

Updated 2023 Guidance & Initial 2024 Outlook Revenue By End Market



Q4 2023 Updated Guidance & Initial 2024 Outlook

Q4 2023

	Prior Guide	Updated Guide
Revenue	\$155M - \$175M	\$165M - \$175M
Non-GAAP Diluted EPS	\$0.35 - \$0.45	\$0.40 - \$0.45 *

FY 2023

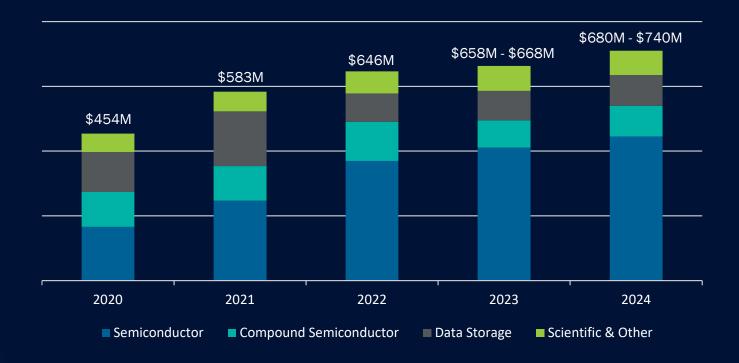
	Prior Guide	Updated Guide
Revenue	\$648M - \$668M	\$658M - \$668M
Non-GAAP Diluted EPS	\$1.55 - \$1.65	\$1.58 - \$1.65 *

FY 2024

	Initial Outlook	
Revenue	\$680M - \$740M	
Non-GAAP Diluted EPS	\$1.60 - \$1.90 *	

2024 Initial Revenue Outlook points to ~7% YoY revenue growth at mid-point of guidance

Revenue by End-Market



Semiconductor revenue increases from 37% in 2020 to >60% in 2023 (CAGR of ~35%)

Executing Today & Well-Positioned for Long Term Growth

Today

- Semiconductor business to grow ~10% in 2023 despite a decline in WFE spending
- Laser Annealing expanding to new markets & applications in logic and memory
- Shipped first two NSA & IBD300 systems to Tier 1 customers for evaluation

Future

- Semiconductor growth well positioned to outperform WFE growth, driven by new and existing products (LSA, NSA, IBD300)
- Compound Semi growth opportunities in SiC, GaN, and MicroLED

Thank You



2023 & FY 2024 Guidance GAAP to Non-GAAP Reconciliations

Q4 2023

• GAAP earnings per diluted share for the fourth quarter of 2023 is expected to be between \$0.27 and \$0.32. Excluded from Non-GAAP diluted EPS for the fourth quarter of 2023 are estimated share-based compensation expenses of \$0.10 per share, and estimated amortization expense of \$0.03 per share.

FY 2023

• Full year 2023 GAAP diluted loss per share is expected in the range of \$(0.70) to \$(0.59). Excluded from Non-GAAP diluted EPS for the full year 2023 are loss on extinguishment of debt charges of \$1.77 per share, estimated share-based compensation expenses of \$0.52 per share, estimated amortization expense of \$0.15 per share, while additional income tax expense of \$0.17 is included in Non-GAAP diluted EPS.

FY 2024

• GAAP earnings per diluted share for 2024 is expected between \$1.10 and \$1.40. Guidance regarding 2024 Non-GAAP earnings per diluted share excludes charges related to estimated share-based compensation expenses of \$0.47 per share and amortization expense of \$0.12 per share, while including additional estimated income tax expense of \$0.09.