

Semiconductor WEEK:

January 13, 2023

An overview of results and conclusions from recent reports at TechInsights

Chip Market Research Services

Roads are icy as fog clouds visibility

- Order activity for semiconductor equipment held at a chilly 50 degrees
- Capacity Utilization Rates

Semiconductor Analytics

Last Week in the Semiconductor Market:

Semiconductor sales started the year 19% higher than the last week of 2022. However, they were down 20% from a year ago. The IC weather warmed 3°F to Cool conditions. Zooming in on DRAM this week, the 13-wk MA growth held at -41.3%. TechInsights forecasts DRAM sales will reach \$69B in 2023 with a Y/Y decline of 18%, coming off a 12% decrease in 2022. DRAM's 13-wk MA hasn't been this low since March 2020. TechInsights' IC Supply/Demand held in Balanced conditions. More Moore Foundry went to back to Saturated from Glut, as More than Moore Foundry went from Loose to Balanced. OSAT tightened up from Balanced to Tight. Unchanged were DRAM, NAND, IDM, Foundry, Analog & Power, and Auto IC. Electronics' Retail Prices peaked before the holidays.

Critical Subsystems

Commodity Ceramics Components

Updated Driving Forces Device Forecast

Chip History Center

Mark Bohr: It's 2002... **Intel** will become the first to crack 90nm, making semiconductors the first nanotechnology industry of scale.

Paul Magliocco: ATE was undergoing major change in the early 2000s as IC densities on SoC semiconductors had passed the point where they could be economically and effectively tested functionally.

The Chip Insider

Strategy and Tactics: The Chip Insider's Strategic Forecast.

Semiconductor Stocks

- *TechInsights' Semiconductor Stock Indices soared this week*
- *Semiconductor Stock Index soared*
 - *SkyWater Technology was this week's biggest winner*
- *Semiconductor Equipment Stock Index surged*
- *EDA Stock Index soared*
- *Electronics Materials Stock Index was led up by Entegris*
- *Hottest Stocks: SkyWater Technology, ASM International, ASM Pacific Technology, NVIDIA, Amkor, and Entegris*

TechInsights

The Chip Insider[®]'s Graphics File



January 2023

Roads are icy as fog clouds visibility

- Order activity for semiconductor equipment held at a chilly 50 degrees
- Memory continues at freezing levels as Chipmakers continue to digest the capacity binge from the last couple of years
- TechInsights' Chip Price Performance Index increased for the first time in over ten months



Forecast as of December 2022:	2022	2023
Semi Equipment (\$B):	\$ 136.9	\$ 118.1
Sequential Change	7.9%	-13.7%
Capacity Utilization:	95.0%	84.4%
ICs (\$B):	\$ 513.6	\$ 483.8
Sequential Change	4.3%	-5.8%
IC Units (BU):	409.2	398.2
Sequential Change	3.8%	-2.7%
Electronics (\$B) :	\$ 2,556	\$ 2,453
Sequential Change	-0.7%	-4.1%

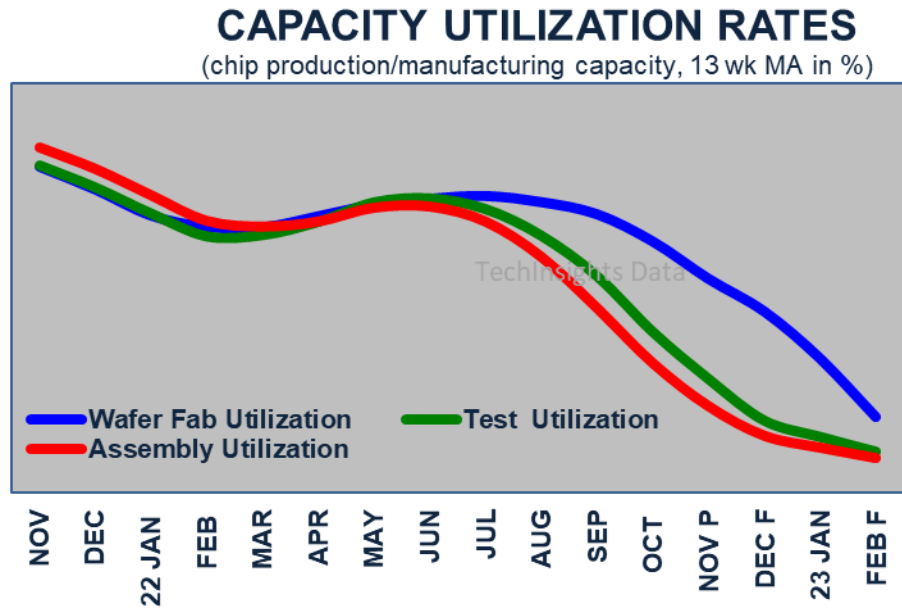
[Contact us to access more details](#)

The Chip Insider® Graphics

Capacity Utilization Rates:

- Utilization rates are falling across the board

Capacity Utilization Rates: chart gives rolling averages for semiconductor wafer fab, test, and assembly



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Workforce Development Solutions...

with Ajit Manocha of SEMI



What the conversation is about:

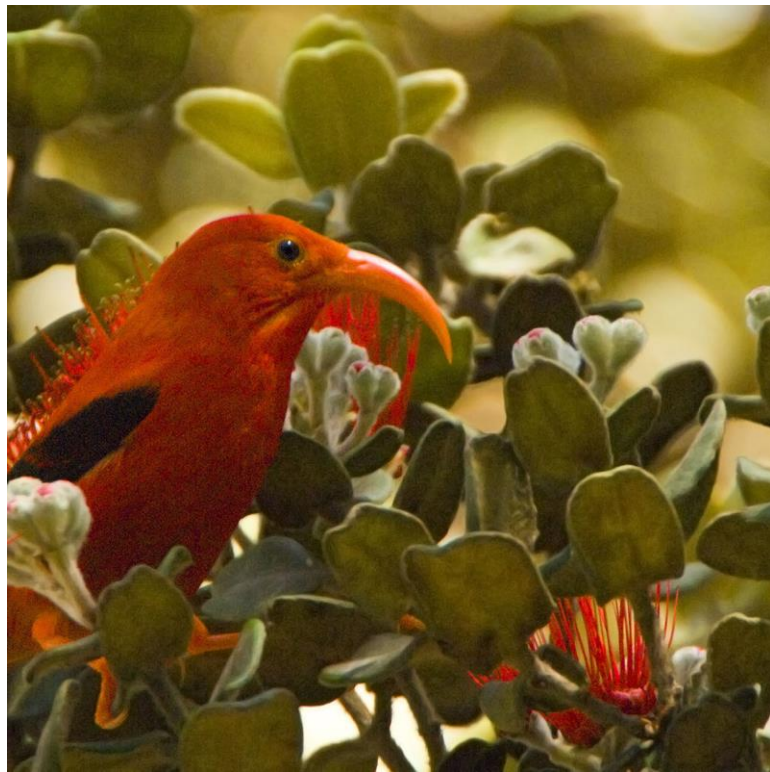
- Labor shortages have become the echo pandemic from the ravages COVID has had on the economy.
- This is no truer than in the semiconductor industry, where Workforce Development has long been on the To-Do lists of many.
- Most industry efforts appear to be more about lobbying others to do something about workforce development.
- It's really hard to do something substantive about it but SEMI is.

[Click here to watch online](#)

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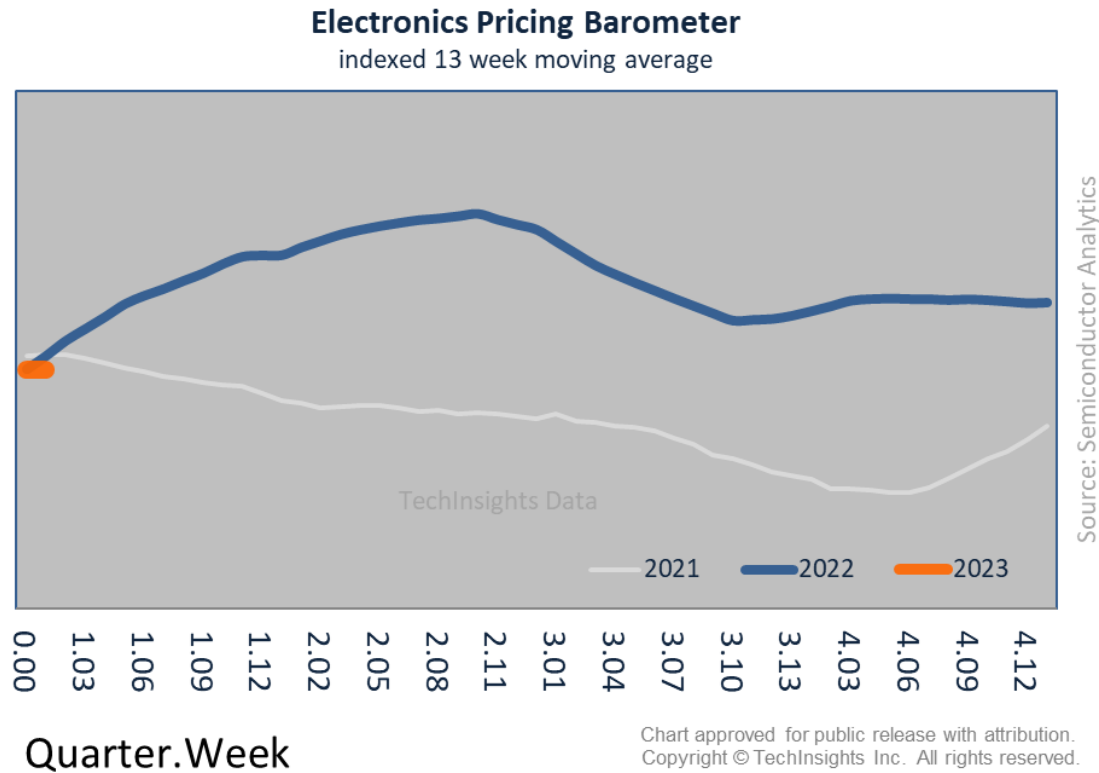


IC Weather Measures Order Activity S/D Measures Pricing Power

Electronics Retail Pricing Trends:

for PC notebooks Tablets Smartphones Cell phones Digital Cameras Appliances TVs

Electronics' Retail
Prices peaked before
the holidays.



The Chip Insider®

Strategy & Tactics



Strategy and Tactics: *The Chip Insider's Strategic Forecast.*

Summaries:

The Chip Insider's Strategic Forecast for 2023: *Here's what I believe the important strategic issues will be this year in the supply chain. These are the areas where you need to find positions for yourself and company for customers and investors.*

*"When everything seems to be going against you ...
remember that the airplane takes off against the wind"*
— Henry Ford

Dan's Book Shelf: *Chip War: The Fight for the World's Most Critical Technology:* by Chris Miller

This book has received plenty of accolades. Many asked me to read it and provide a review. It has a really good story line and takes the uninitiated down the, obvious to us, premise that semiconductors are critical to our futures. But ...

[Contact us to get the full report and more](#)

TechInsights

Critical Sub-systems

Commodity Ceramics Components



We recently completed a focused report on commodity ceramics (includes Alumina, Aluminum Nitride, and Yttria) for semiconductor equipment.

Commodity ceramics revenues have been estimated to reach \$2.3B in 2022 and will surpass \$2.7B in 2027.

Largest vendors include CoorsTek, Kyocera, NGK Insulators, and Ferrotec.

Commodity Ceramic Components for Semi Eqpt

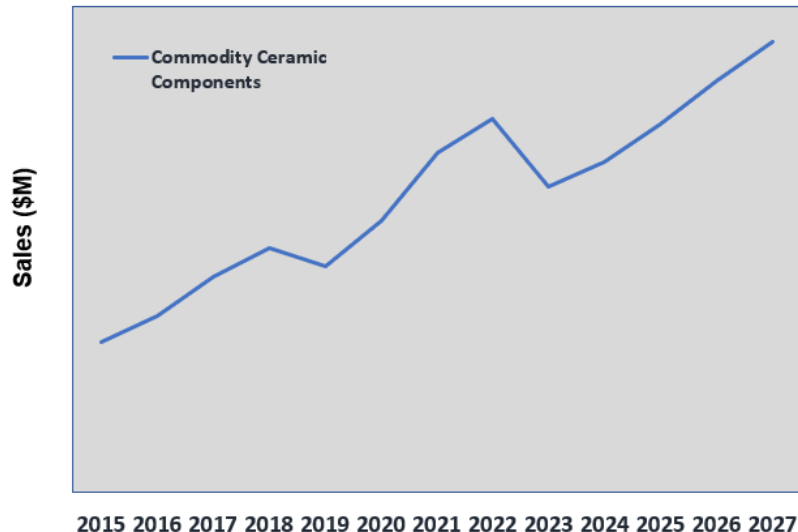


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Critical Sub-systems

Updated Driving Forces Device Forecast

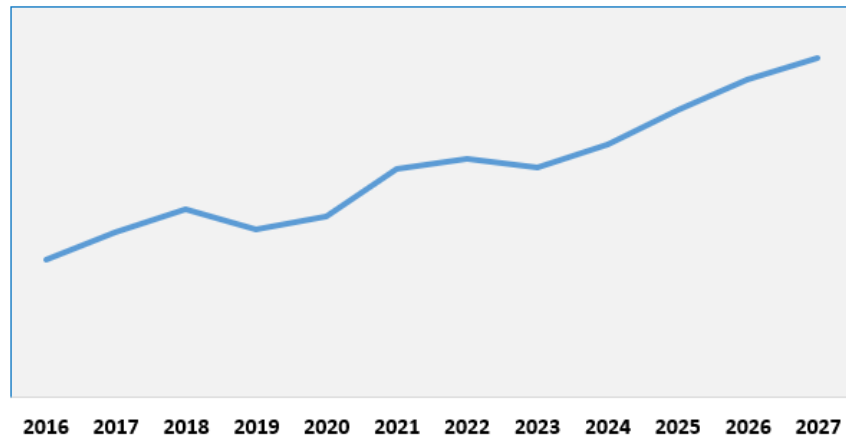


Last week an updated electronics and semiconductor device forecast was uploaded to the platform.

2023 is looking to be a down year driven primarily by the memory market's inventory correction.

Logic is not safe either however and is expecting to see slowdowns from excess inventory and a slowing demand in the second half of 2023.

Semiconductor Sales, \$M



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THE CHIP HISTORY CENTER

The Virtual Museum of Semiconductors

Section

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www.chiphistory.org

Mark Bohr: It's 2002... Intel will become the first to crack 90nm, making semiconductors the first nanotechnology industry of scale. These integrated circuits or ICs were well past the 100-nanometer border that defines where nanotechnology starts. Thus, Intel was leading the industry from microchips to nanochips. It would take a lot of manufacturing breakthroughs for the team of engineers and scientists at Intel to pull this off, including SiGe. In doing so, it would raise Intel TMG into the pantheon of legendary solid-state research centers. Mark Bohr, Intel Fellow, Director of Process Architecture and Integration discusses the launch of Intel's then new P1262 90nm Process in this historic interview.

[Intel at 90nm](#)

Paul Magliocco: ATE was undergoing major change in the early 2000s as IC densities on SoC semiconductors had passed the point where they could be economically and effectively tested functionally. Tester prices and test times had exploded. Two great debates ensued over: 1) a move by chip makers to commoditize testers with an open standard and 2) structural test versus functional test. Originally taped in 2003, Paul Magliocco discusses how he saw these issues and how they would affect his start-up, Nextest. The company would later be bought by Teradyne in what would prove to be a very fruitful merger, due in part to the architectural decisions Nextest was making in the early 2000s. [New Reality for Test](#) [Structural vs Functional Test](#) [Open ATE Architecture: ATE Executive View](#)



Supporters:

ADVANTEST



exyte



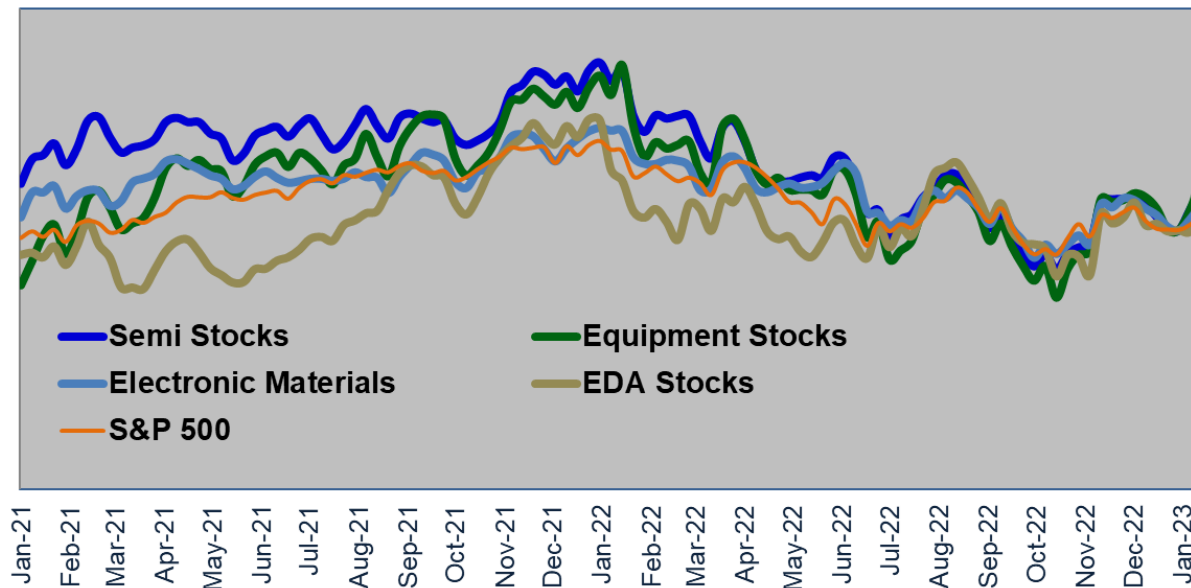
semiStockWEEK:

TechInsights' Semiconductor Stock Indices soared this week
with semiconductor equipment stocks hitting a new yearly high.



Semiconductor Industry Stock Performance Indices

(Stock Prices Indexed to 100 in last week of 2022)



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TechInsights' Stock Indices:

Semiconductors +5.5%
Equipment +7.9%
Electronic Materials +4.0%
EDA +5.3%

Semiconductor Stocks:

Weekly Growth and Forward P/E Ratios by Company

Weekly Gains			1/13/2023		
Semiconductor Stocks	Price Change	Forward P/E	Semiconductor Stocks	Price Change	Forward P/E
IDM			Fab-lite to Fabless		
Intel	4.8%	15	AMD	11.0%	18
Micron	0.3%	29	Analog Devices	2.1%	16
ON Semiconductor	4.3%	14	Broadcom	-1.6%	14
Samsung Electronics	3.1%	—	IBM	1.5%	15
SK hynix	3.1%		Infineon	5.7%	14
STMicroelectronics	8.0%	10	MagnaChip Semiconductor	7.7%	37
Western Digital	0.1%	12	MaxLinear	8.8%	9
Foundry & OSAT			MediaTek	5.2%	—
Amkor	13.3%	10	NVIDIA	13.7%	34
ASE	5.7%	8	Panasonic	3.1%	11
GLOBALFOUNDRIES	12.1%	23	Qualcomm	4.2%	9
JCET	9.5%	14	Silicon Laboratories	5.4%	39
SkyWater Technology	25.3%	—	Skyworks	6.5%	9
SMC	1.7%	13	Texas Instruments	2.2%	22
TSMC	11.2%	13			
UMC	7.2%	9			

Above Avg

Top 4-6

Top 1-3

TechInsights' Semiconductor Stock Index soared this week. SkyWater Technology is the biggest winner as it more than quadrupled its growth from last week. NVIDIA and Amkor also had a strong week.

IDM +3.4%
Foundry & OSAT +10.8%
Fabless & Fablite +5.4%

AMD ^{AMD} Analog Devices ^{ADI} Amkor ^{AMKR} ASE ^{ASX} Broadcom ^{AVGO} GLOBALFOUNDRIES ^{GFS} IBM ^{IBM} Infineon ^{IFNNY.PK} Intel ^{INTC} JCET ^{600584.SS} Micron Technology ^{MU} On Semiconductor ^{ON} Panasonic ^{PC} MagnaChip Semiconductor ^{MX} MaxLinear ^{MXL} MediaTek ^{2454.TW} NVIDIA ^{NVDA} Qualcomm ^{QCOM} Samsung Electronics ^{005930.KS} Silicon Laboratories ^{SLAB} SkyWater Technology ^{SKYT} Skyworks ^{SWKS} SMIC ^{SMI} STMicroelectronics ^{STM} Texas Instruments ^{TXN} TSMC ^{TSM} UMC ^{UMC} Western Digital ^{WDC}

Chip Equipment & Related Stocks:

Weekly Growth and Forward P/E Ratios by Company

Weekly Gains			1/13/2023		
Equipment Stocks	Price Change	Forward P/E	Equipment Stocks	Price Change	Forward P/E
Wafer Fab:			Test:		
Applied Materials	5.5%	15	Advantest	5.3%	–
ASM International	15.3%	24	Teradyne	6.8%	23
ASML	10.7%	30	FormFactor	4.4%	29
KLA	5.6%	21			
Lam Research	6.4%	16	Assembly:		
Onto Innovation	4.8%	–	BESI	8.8%	–
Nikon	3.0%	–	Kulicke & Soffa	9.2%	13
TEL	9.5%	–	ASM Pacific Technology	14.5%	
Veeco Instruments	5.1%	14			
			Above Avg	Top 4-6	Top 1-3

TechInsights' Semiconductor Equipment Stock Index surged this week. ASM International came out on top followed closely by ASM Pacific, ASML, TEL, and Kulicke & Soffa.

WFE +7.3%
 Test +5.5%
 Assembly +10.8%

Applied Materials ^{AMAT} Advantest ^{ATEYY}
 ASM International ^{ASMIY}
 ASM Lithography ^{ASML} ASM Pacific ^{0522.HK}
 BE Semiconductor ^{BESII.PK}
 FormFactor ^{FORM} KLA ^{KLAC}
 Kulicke & Soffa ^{KLIC} Lam Research ^{LRCX}
 Onto Innovation ^{ONTO} Nikon ⁷⁷³¹ Teradyne ^{TER}
 Tokyo Electron Limited ⁸⁰³⁵ Veeco ^{VECO}

Electronic Materials Stocks:

Weekly Growth and Forward P/E Ratios by Company

Weekly Gains			1/13/2023		
EDA & Electronic Materials Stocks	Price Change	Forward P/E	EDA & Electronic Materials Stocks	Price Change	Forward P/E
EDA			DNP	-1.2%	—
Cadence	6.0%	34	DuPont de Nemours	3.7%	5
Synopsys	3.9%	27	JSR	4.0%	—
Ansys	6.1%	28	Shin-Etsu	3.2%	—
Electronic Materials			SOITEC	4.9%	—
BASF	1.6%	2	Tokyo Ohka	2.3%	—
Entegris	13.2%	21			
			Above Avg	Top 4-6	Top 1-3

TechInsights' EDA Stock Index soared

TechInsights' Electronic Materials Stock Index was led up by Entegris. All companies increased their growth this week with the exception of DNP.

Ansys, Inc. ^{ANSS} BASF ^{BASFY}
 Entegris ^{ENTG} Cadence ^{CDNS} DNP ⁷⁹¹²
 DuPont ^{DD} JSR ⁴¹⁸⁵ Shin-Etsu ⁴⁰⁶³
 SOITEC ^{SOI.PA} Synopsys ^{SNPS} Tokyo
 Ohka ⁴¹⁸⁶

The Prior Week's Close	TechInsights' Indices of Chip Industry Stocks				Weekly Growth				Companies Up	Max Growth	Companies Down	Min Growth	Range of Growth	S&P 500	S&P 500 Growth
	Semi Stocks	Equipment Stocks	Materials Stocks	EDA Stocks	Semi Stocks	Equipment Stocks	Materials Stocks	EDA Stocks							
10-Jun-22	113.2	109.6	115.4	95.9	-5.2%	-5.7%	-2.5%	-6.5%	6	9.7%	-49	-11.9%	21.6%	101.6	-5.1%
17-Jun-22	104.7	98.0	105.1	92.4	-7.5%	-10.6%	-8.9%	-3.6%	2	4.0%	-53	-17.3%	21.3%	95.7	-5.8%
24-Jun-22	105.5	102.3	104.7	101.0	0.8%	4.3%	-0.3%	9.3%	41	12.8%	-14	-19.4%	32.2%	101.9	6.4%
01-Jul-22	97.7	92.0	101.3	95.4	-7.3%	-10.1%	-3.3%	-5.6%	3	6.1%	-52	-20.1%	26.2%	99.6	-2.2%
08-Jul-22	102.8	94.4	102.8	100.6	5.2%	2.7%	1.5%	5.5%	47	20.5%	-7	-4.8%	25.3%	101.6	1.9%
15-Jul-22	104.3	97.1	102.6	98.4	1.4%	2.8%	-0.2%	-2.2%	32	10.1%	-21	-9.1%	19.2%	100.6	-0.9%
22-Jul-22	108.9	105.9	108.5	105.8	4.4%	9.1%	5.7%	7.5%	52	66.7%	-3	-8.3%	75.0%	103.2	2.5%
29-Jul-22	111.4	109.4	110.8	115.3	2.4%	3.3%	2.1%	9.0%	39	12.4%	-16	-9.9%	22.3%	107.6	4.3%
05-Aug-22	114.8	113.6	108.7	116.9	3.1%	3.8%	-1.9%	1.5%	47	33.8%	-8	-17.1%	50.9%	108.0	0.4%
12-Aug-22	115.2	112.9	110.9	118.5	0.3%	-0.6%	1.9%	1.3%	33	22.3%	-22	-17.4%	39.7%	111.5	3.3%
19-Aug-22	111.1	109.2	108.7	114.2	-3.6%	-3.3%	-1.9%	-3.6%	9	17.4%	-46	-8.1%	25.5%	110.1	-1.2%
26-Aug-22	106.3	104.9	106.2	108.9	-4.3%	-3.9%	-2.3%	-4.7%	2	1.1%	-53	-17.8%	18.9%	105.7	-4.0%
02-Sep-22	100.6	97.0	101.7	103.0	-5.4%	-7.5%	-4.1%	-5.4%	1	2.1%	-54	-16.1%	18.2%	102.2	-3.3%
09-Sep-22	103.8	101.8	106.4	107.4	3.2%	4.9%	4.6%	4.2%	50	13.1%	-5	-9.5%	22.6%	105.9	3.6%
16-Sep-22	99.3	95.5	100.6	100.0	-4.3%	-6.2%	-5.4%	-6.9%	4	2.3%	-50	-24.2%	26.5%	100.9	-4.8%
23-Sep-22	93.8	90.3	97.1	96.6	-5.5%	-5.5%	-3.5%	-3.4%	3	1.6%	-52	-15.8%	17.4%	96.2	-4.6%
30-Sep-22	90.2	86.3	92.6	96.2	-3.9%	-4.4%	-4.7%	-0.4%	5	4.7%	-49	-11.7%	16.4%	93.4	-2.9%
07-Oct-22	93.5	90.2	96.2	95.0	3.7%	4.6%	3.9%	-1.3%	46	9.8%	-7	-7.8%	17.6%	94.8	1.5%
14-Oct-22	89.2	81.6	93.7	87.5	-4.6%	-9.5%	-2.6%	-7.9%	8	5.8%	-47	-16.1%	21.9%	93.3	-1.6%
21-Oct-22	93.6	89.5	96.2	93.2	4.9%	9.6%	2.8%	6.5%	45	21.9%	-10	-5.2%	27.1%	97.7	4.7%
28-Oct-22	95.3	93.3	98.6	92.8	1.8%	4.3%	2.5%	-0.5%	42	11.5%	-13	-24.7%	36.2%	101.6	4.0%
04-Nov-22	96.2	94.3	96.3	87.8	0.9%	1.0%	-2.4%	-5.3%	32	20.3%	-23	-21.5%	41.8%	98.2	-3.3%
11-Nov-22	107.8	108.4	107.2	104.5	12.1%	15.0%	11.3%	18.9%	53	37.4%	-2	-8.0%	45.4%	104.0	5.9%
18-Nov-22	108.3	107.5	106.2	101.9	0.5%	-0.8%	-0.9%	-2.5%	24	12.4%	-31	-22.2%	34.6%	103.3	-0.7%
25-Nov-22	108.5	108.1	108.7	103.4	0.2%	0.5%	2.4%	1.5%	36	5.6%	-19	-3.8%	9.4%	104.9	1.5%
02-Dec-22	107.2	109.9	108.2	107.6	0.1%	1.7%	-0.5%	4.0%	38	9.2%	-16	-7.5%	16.7%	106.0	1.1%
09-Dec-22	106.9	108.9	105.9	101.4	-1.7%	-0.9%	-2.1%	-5.7%	15	7.2%	-38	-8.5%	15.7%	102.5	-3.4%
16-Dec-22	103.6	105.8	104.1	101.7	-3.1%	-2.9%	-1.7%	0.3%	10	4.0%	-45	-10.6%	14.6%	100.3	-2.1%
23-Dec-22	100.4	100.0	100.9	99.7	-3.1%	-5.4%	-3.1%	-2.0%	3	1.2%	-51	-10.8%	12.0%	100.1	-0.2%
30-Dec-22	100.0	100.0	100.0	100.0	-0.4%	0.0%	-0.9%	0.3%	20	7.9%	-33	-5.3%	13.2%	100.0	-0.1%
06-Jan-23	105.6	105.5	103.1	99.6	5.6%	5.5%	3.1%	-0.4%	46	17.8%	-8	-4.3%	22.1%	101.4	1.4%
13-Jan-23	111.4	113.8	107.1	104.9	5.5%	7.9%	4.0%	5.3%	53	25.3%	-2	-1.6%	26.9%	104.2	2.7%

Links to Conference Call Transcripts

January 13th

[NVIDIA Corporation \(NVDA\) 41st Annual J.P. Morgan Healthcare Conference \(Transcript\)](#)

[Taiwan Semiconductor Manufacturing Company Limited \(TSM\) Q4 2022 Earnings Call Transcript](#)

January 6th and before

[Micron Technology, Inc. \(MU\) J.P. MORGAN 21ST ANNUAL TECH/AUTO FORUM \(Transcript\)](#)

[Marvell Technology, Inc. \(MRVL\) J.P. Morgan 21st Annual Tech/Auto Forum Conference \(Transcript\)](#)

[Skyworks Solutions, Inc. \(SWKS\) Presents at J.P. Morgan 21st Annual Tech/Auto Forum \(Transcript\)](#)

[NVIDIA Corporation \(NVDA\) J.P. Morgan 21st Annual Tech/Auto Forum Conference \(Transcript\)](#)

[ON Semiconductor Corporation \(ON\) CEO Hassane El-Khoury presents at J.P. Morgan CES Tech/Auto Forum \(Transcript\)](#)

[Micron Technology, Inc. \(MU\) Q1 2023 Earnings Call Transcript](#)

[Western Digital Corporation \(WDC\) CEO David Goeckeler Presents at Barclays 2022 Global Technology, Media and Telecommunications Conference \(Transcript\)](#)

[Analog Devices, Inc. \(ADI\) Presents at Barclays 2022 Global Technology, Media and Telecommunications Brokers Conference \(Transcript\)](#)

[Marvell Technology, Inc. \(MRVL\) Arete Tech Conference \(Transcript\)](#)

[Western Digital Corporation \(WDC\) UBS Global TMT Conference Transcript](#)

[Advanced Micro Devices, Inc. \(AMD\) Arete Tech Conference \(Transcript\)](#)

Links to Conference Call Transcripts

[ASML Holding N.V. \(ASML\) Presents at UBS 2022 Global TMT Conference \(Transcript\)](#)

[NXP Semiconductors N.V. \(NXPI\) Presents at Nasdaq 47th Investor Conference \(Transcript\)](#)

[ON Semiconductor Corporation \(ON\) NASDAQ 47th Investor Conference \(Transcript\)](#)

[NVIDIA Corporation \(NVDA\) Management Presents at Arete Tech Conference 2022 Conference \(Transcript\)](#)

[Western Digital Corporation \(WDC\) Arete Tech Conference \(Transcript\)](#)

[Marvell Technology, Inc. \(MRVL\) Q3 2023 Earnings Call Transcript](#)

[DuPont de Nemours, Inc. \(DD\) Presents at Credit Suisse's 10th Annual Global Industrials Brokers Conference \(Transcript\)](#)

[Semtech Corporation \(SMTC\) Q3 2023 Earnings Call Transcript](#)

[Synopsys, Inc. \(SNPS\) Q4 2022 Earnings Call Transcript](#)

[NXP Semiconductors N.V. \(NXPI\) 6th Annual Wells Fargo TMT Summit](#)

[Applied Materials, Inc. \(AMAT\) Presents at Wells Fargo 6th Annual TMT Summit Conference \(Transcript\)](#)

[NVIDIA Corporation \(NVDA\) Credit Suisse 26th Annual Technology Conference \(Transcript\)](#)

[Advanced Micro Devices, Inc. \(AMD\) Presents at Wells Fargo 6th Annual 2022 TMT Summit \(Transcript\)](#)

[Intel Corporation \(INTC\) Credit Suisse 26th Annual Technology Conference \(Transcript\)](#)

[Honeywell International Inc. \(HON\) Management Presents at Credit Suisse 10th Annual Global Industrials Conference \(Transcript\)](#)

[Western Digital Corporation \(WDC\) Credit Suisse 26th Annual Technology Conference \(Transcript\)](#)

[Micron Technology, Inc. \(MU\) 6th Annual Wells Fargo TMT Summit Conference \(Transcript\)](#)

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[Analog Devices, Inc. \(ADI\) Management Presents at Credit Suisse 26th Annual Technology Conference](#)

[NXP Semiconductors N.V. \(NXPI\) Credit Suisse 26th Annual Technology Conference \(Transcript\)](#)

[Qorvo, Inc. \(QRVO\) Presents at 6th Annual Wells Fargo TMT Summit](#)

[Lam Research Corporation \(LRCX\) Presents at Credit Suisse 26th Annual Technology Conference \(Transcript\)](#)

[Texas Instruments Incorporated \(TXN\) Credit Suisse 26th Annual Technology Conference \(Transcript\)](#)

[International Business Machines Corporation \(IBM\) Management Presents at Credit Suisse 26th Annual Technology Conference Call Transcript](#)

[Analog Devices Inc. \(ADI\) Q4 2022 Earnings Call Transcript](#)

[Agilent Technologies, Inc. \(A\) Q4 2022 Earnings Call Transcript](#)

[Applied Materials, Inc. \(AMAT\) Q4 2022 Earnings Call Transcript](#)

[Camtek LTD. \(CAMT\) Q3 2022 Earnings Call Transcript](#)

[Kulicke and Soffa Industries, Inc. \(KLIC\) Q4 2022 Earnings Call Transcript](#)

[NVIDIA Corporation \(NVDA\) Q3 2023 Earnings Call Transcript](#)

[Infineon Technologies AG \(IFNNY\) Q4 2022 Earnings Call Transcript](#)

[GLOBALFOUNDRIES Inc. \(GFS\) Q3 2022 Earnings Call Transcript](#)

[Veeco Instruments, Inc. \(VECO\) Q3 2022 Earnings Call Transcript](#)

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- [Semiconductor Forecast – V22.12](#)
- [CapEx Distribution – V22.12](#)
- Electronics & Macroeconomy – V22.10
- Diffusion Rates and Utilization – V22.10
- Long-Term Semi and Eqpt Forecast – V22.09
- Silicon Demand – V22.09
- Advanced Packaging – V22.07
- Packaging Demand – V22.06

Equipment Database Module:

- [Scanner & Stepper Shipments – V22.12](#)
- IC Equipment Forecast:
 - Yearly – V22.08
- [WFE Equipment Market Shares:](#)
 - Yearly – V22.05
 - [Quarterly – V22.12](#)
- WFE by Applications – V22.09

Customer Satisfaction Survey Uploads:

- 2022 CSS Databases
- 2022 Survey Documents

Critical Subsystems Uploads:

- [Critical Subsystems Forecasts – V22.11](#)
- [Device Forecast Summary – V22.11](#)
- [Manufacturing Equipment Forecasts – V22.11](#)
- [Substrate Processing Equipment Shipments – V22.11](#)
- [Substrate Processing Equipment Installed Base – V22.11](#)
- [Chamber Shipments – V22.11](#)
- Supplier Shares – V22.03

Test Connectivity Reports:

- Test and Burn-In Socket Report : V22.07
 - [Quarterly Report: V22.12](#)
- Probe Card Report: V22.05
 - [Quarterly Report: V22.12](#)
- Device Interface Board Report: V22.08
 - [Quarterly Report: V22.12](#)

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