



Lam Research (NYSE: LAM)

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Recommendation: **BUY**Price Target: \$540.44
Upside: 9.1%

Lam Research Overview

Lam's critical chip-processing capabilities link the visionary designs for the latest semiconductor devices with the companies that produce them. The company distinguishes itself against its competitors by its sheer market share which provides cost advantages allowing them to invest more in R&D.

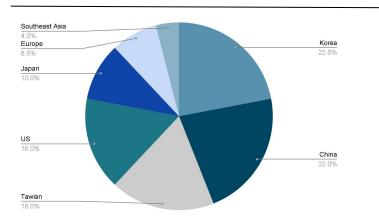


Company Description

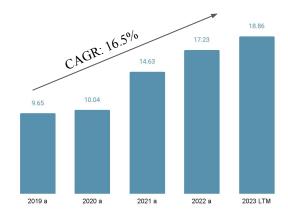
Lam Research (Nasdaq:LRCX) is a FORTUNE 500® company headquartered in Fremont, Calif., with operations around the globe.

Lam Research Corporation is a global supplier of innovative wafer fabrication equipment and services to the semiconductor industry.

Revenue Geographic Segmentation



Revenue Growth (in \$MM)



Operating Statistics & Valuation Metrics

Gross Margin: 45% TEV/EBITDA: 10.1x

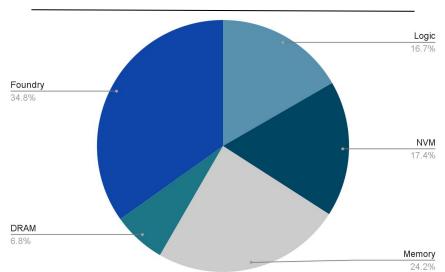
EBITDA Margin: 31.7% TEV/Revenue: 3.56x

ROE: 68% P/E: 14.3



Products Outlook

Revenue System Segmentation



Wafer Fabrication Equipment

WFE demand down due to supply chain related risks

Extreme Ultraviolet Technology

Leading position in EUV, dry resistant tech growing

ALD / ALE

LAM benefits from complex 3D tech, \$1 B opportunity across customers

Investment Thesis



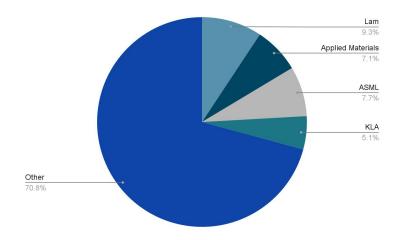
- Market Leader Virtually every leading edge device has been made using LAM's equipment
- 2 LAM is well positioned to benefit from increase in semiconductor manufacturing
- 3 LAM is **investing heavily in R&D** to offer innovative solutions
- 4 Long-term improved **gross margins** and **operational efficiency**





Competitive Advantages

- Tailored tools for individual customer's chipmaking process flow
- 2. High switching costs
- 3. Scale advantages



M&A Activity

Esgee Technologies

- Thermal Plasma

SEMSYSCO

- Packaging Solutions

Conventor and Novellus

- Semiconductor modeling software



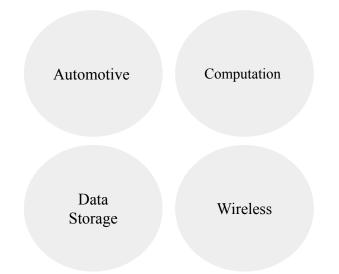




LAM is well positioned to benefit from increase in semiconductor manufacturing



70% of Semiconductor's Future Growth



CHIPS Act

40 new projects in the US \$200 B in private investments 200,000 Jobs created

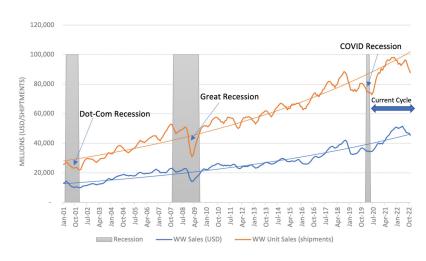
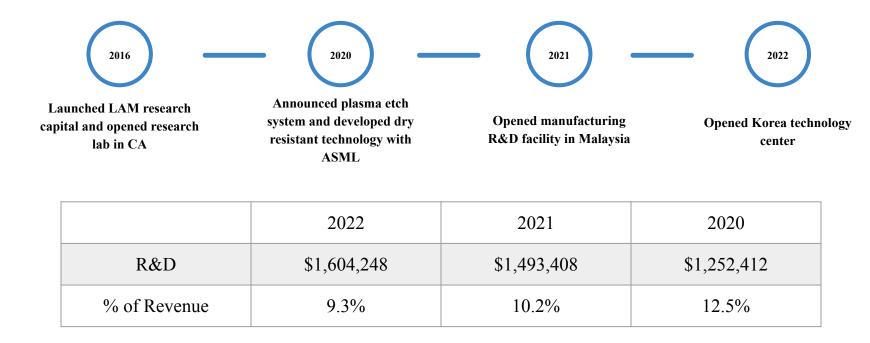


Figure: Sales and Unit Shipments 3 month moving average Jan. 2001- Nov. 2022

LAM is investing heavily in R&D to offer innovative solutions





- From 2021 to 2022, R&D driven by increase of \$89 M due to hiring more employees for R&D and \$43 M in spending for supplies
- From 2020 to 2021, R&D driven by increase of \$137 M due to hiring more employees for R&D, \$49 M in outside service costs, and \$27 M in spending for supplies



Long-term improved gross margins and operational efficiency



LAM Gross Margins

2020	2021	2022	2023
45.9%	46.5%	45.7%	45%

Suppliers

LAM

Applied Materials KLA

ASML

Semiconductor Manufacturing International Corporation (SMIC)

Suppliers

US China

Korea Taiwan

Germany
Customers

Japan

China

Taiwan US

US Korea Customers

→ Intel

Samsung

Qualcomm

Valuation Considerations - Comps



Company	Market Cap	EV/ Revenue	EV/ EBITDA	Forward P/E	
Applied Materials	rials 94.5 3.7x 11.5x		11.5x	12.8	
KLA Corp	51.5	5.2x	11.9x	16.6	
ASML Holding	250.9	10.7x 31.8x		29.7	
LAM	66.5	3.5x	10x	13.6	

10.3% Upside

Stock Price \$495.37 Intrinsic Value \$552.07

Trading at a Discount → Buy Opportunity



DCF and Comps output a blended share price of \$540.44, a 9.1% upside, while giving 50% weight to each method.

Enterprise Value	
Cumulative Present Value of FCF	\$26,287,307.0
Terminal Value	29 29 0500
Terminal Year EBITDA	\$7,630,035.6
Exit Multiple	11.9x
Terminal Value	\$90,797,423.7
Discount Factor	51.25%
Present Value of Terminal Value	\$46,529,571.6
% of Enterprise Value	63.9%
Enterprise Value	\$72,816,878.7

DCF Implied Equity Value and Share Price			
Enterprise Value	\$72,816,878.7		
Less: Total Debt	\$5,003,283.0		
Plus: Cash & Cash Equivalents	\$3,522,001.0		
Implied Equity Value	\$71,335,596.7		
Implied Share Price	\$528.80		
Shares Outstanding	134,900		

Sensitivity Analysis

				WACC		
	528.80	8.8%	9.8%	10.8%	11.8%	12.8%
	9.9x	\$518.86	\$494.11	\$470.90	\$449.10	\$428.62
	10.9x	\$551.49	\$524.86	\$499.89	\$476.45	\$454.43
EV/EBITDA	11.9x	\$584.12	\$555.61	\$528.88	\$503.79	\$480.24
	12.9x	\$616.75	\$586.36	\$557.87	\$531.14	\$506.05
	13.9x	\$649.39	\$617.11	\$586.86	\$558.48	\$531.85

Key Drivers

R&D Revenue Operating
Expense Growth Margins



What You Need to Believe

- 1 LAM Research is **undervalued**, with an upside of 9.1%.
- The company distinguishes itself against its competitors by its sheer **market** share which provides **cost advantages** allowing them to invest more in **R&D**.
- LAM well positioned to **mitigate supply chain/inflation risk** and take advantage of an increase in **semiconductor manufacturing**

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Questions?