

Use of Forward-Looking Statements

This presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 regarding the future financial performance, business prospects and growth of MKS. These statements are only predictions based on current assumptions and expectations. Any statements that are not statements of historical fact (including statements containing the words "will," "projects," "intends," "believes," "plans," "anticipates," "expects," "extimates," "forecasts," "continues" and similar expressions) should be considered to be forward-looking statements. Actual events or results may differ materially from those in the forward-looking statements set forth herein.

Among the important factors that could cause actual events to differ materially from those in the forward-looking statements are manufacturing and sourcing risks, including the impact and duration of supply chain disruptions, component shortages and price increases, the ability of MKS to complete its acquisition of Atotech Limited ("Atotech"), the terms of MKS' existing term loan, the terms and availability of financing for the Atotech acquisition, the substantial indebtedness MKS expects to incur in connection with the Atotech acquisition and the need to generate sufficient cash flows to service and repay such debt, MKS' entry into Atotech's chemicals technology business, in which MKS does not have experience and which may expose it to significant additional liabilities, the risk of litigation relating to the Atotech acquisition, the risk that disruption from the Atotech acquisition materially and adversely affects the respective businesses and operations of MKS and Atotech, the ability of MKS to realize the anticipated synergies, cost savings and other benefits of the Atotech acquisition, competition from larger or more established companies in MKS' and Atotech's respective markets, the ability of MKS to successfully grow its business and the businesses of Atotech, Photon Control Inc., which it acquired in February 2019, potential adverse reactions or changes to business relationships resulting from the announcement, pendency or completion of the Atotech acquisition, conditions affecting the markets in which MKS and Atotech operate, including the fluctuations in capital spending in the semiconductor industry and other advanced manufacturing markets, and fluctuations in sales to MKS' and Atotech's major customers, the ability to anticipate and meet customer demand, the challenges, risks and costs involved with integrating the operations of the companies we have acquired, potential fluctuations in quarterly results, dependence on new product development, rapid technological and market change, acquisition strate



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Use of Non-GAAP Financial Measures

This presentation includes measures that are not in accordance with U.S. generally accepted accounting principles ("Non-GAAP financial measures"). These Non-GAAP financial measures should be viewed in addition to, and not as a substitute for, MKS' reported GAAP results, and may be different from Non-GAAP financial measures used by other companies. In addition, these Non-GAAP financial measures are not based on any comprehensive set of accounting rules or principles. MKS management believes the presentation of these Non-GAAP financial measures is useful to investors for comparing prior periods and analyzing ongoing business trends and operating results. Please see the Appendix entitled "GAAP to Non-GAAP Reconciliations" at the end of this presentation for reconciliations of our Non-GAAP financial measures to the comparable GAAP financial measures.



MKS Value Proposition



Enabling key technology trends with foundational solutions



Semi subsystems leader with broadest portfolio

Positioned for growth in complementary Advanced Markets



Focus on miniaturization and technical complexity drives shareholder value



Broad and Deep Capabilities Addressing Multiple End Markets

Semiconductor

- Deposition
 - Atomic Layer Deposition, Plasma
 Enhanced Chemical Vapor Deposition
- Etching
 - Extreme Vertical Structures
- Lithography
 - 193nm Immersion, EUV
- Metrology & Inspection
- Critical Wet Processing
 - Dissolved Reactive Gases



Advanced Markets

- Industrial Technologies
 - **Advanced Electronics Manufacturing**
 - PCB, Electronic Components, Advanced Packaging, Solar, Display

Industrial

- Process Industries, Telecom/Datacom, Industrial Manufacturing
- Life & Health Sciences
 - Analytical & Medical Instrumentation, Biopharma, Bioimaging, Surgery
- Research & Defense
 - Imaging/Infrastructure, Protection/ Surveillance, Electronics/Biological Research, Ultrafast Laser Studies



Strong Multi-Year Secular Drivers

Semiconductor
Demand/Complexity
Drives WFE⁽¹⁾

(1)Wafer Fabrication Equipment spend

Mechanical to Laser-Based Manufacturing



MKS is Uniquely Positioned for

Market share gains as equipment spend increases

Accelerating adoption of Lasers, Optics and Photonics

Enablement of smaller, feature-rich advanced electronics

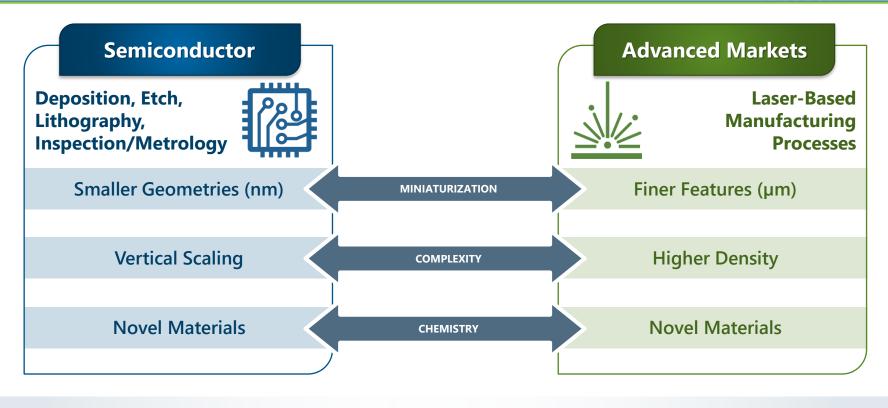
Customer Challenges: Miniaturization – Density – New Materials



The Trends We Have Seen in Semi Are Coming to Advanced Markets

Precision Engineering Enables Technology Advances from Wafer to Workpiece

PRESSURE



OPTICS

LASERS

OPTICAL SUBSYSTEMS



POWFR

PLASMA & REACTIVE GAS

MOTION SYSTEMS

Leader in Critical Subsystems For Semiconductor Manufacturing





MKS: Broadest Critical Subsystem Provider in WFE Ecosystem

DEPOSITION & ETCH

- RF Power
- Plasma & Reactive Gas
- Pressure & Vacuum Measurement
- Gas Delivery & Pressure Control
- Temperature Sensing

CRITICAL WET PROCESSING

 Dissolved Reactive Gas

Addresses >85% of WFE⁽¹⁾

METROLOGY & INSPECTION

- Optics & Optical Subsystems
- Lasers
- Precision Motion
- High Performance DUV Thin Film Coating

LITHOGRAPHY

- Optics & Optical Subsystems
- Precision Motion
- Vibration Control
- Light Source Assemblies

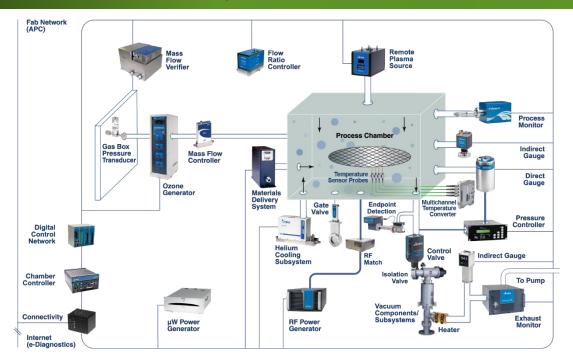
⁽¹⁾Company estimate.



Semiconductor Market's Critical Solutions Provider

Deposition & Etch

Lithography & Inspection





Leveraging Surround the Chamber® Portfolio to Drive Growth



Addressing Semi Customers' Most Complex Challenges

RF Power



Enables drilling billions of holes with aspect ratios >55:1, perfectly straight & parallel; equivalent to hitting a target >1 mile away with a deviation of <0.5 inch

MKS is a Leader in Critical Subsystems
Vital to Future Inflections

Plasma & Reactive Gas

Enables depositing thin films conformally – one atomic layer at a time, billions of atoms across with zero defects



Pressure Measurement



Enables unprecedented sensitivity and accuracy for pressure measurement detecting a 1/25 of an inch movement from >0.5 mile away

Precision Optics

Enables focusing light to image features that are 10 atoms across (10,000x smaller than the width of a human hair)





Leveraging
Expertise Into
Advanced
Markets





Stage is Set for Broad Adoption of Laser Manufacturing



2000 - 2010

Advanced Devices

Large electronic components, less processing power, bulky design

Mechanical Manufacturing Processes 2010 - 2020

Smartphones, Wearables, IoT

Very small electronic components, extremely fast processing power

Laser
Manufacturing
Select Use Cases

2020+

Hyper-Connectivity, Miniaturization

Extremely small form-factor, continued acceleration of processing power

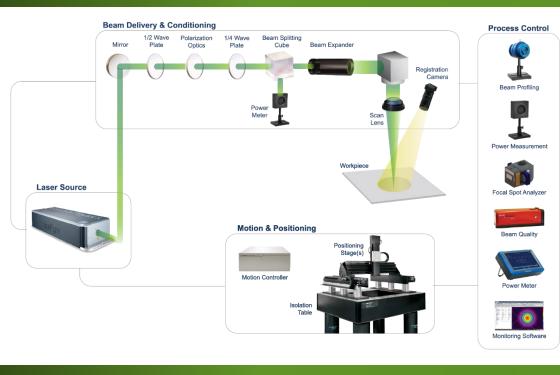
Laser Manufacturing Broad Adoption

Precision Laser Growth Opportunity in Electronics Manufacturing

Leader in Laser Solutions & Systems

Critical Solutions for Laser Processing

System Level Expertise





Leveraging Surround the Workpiece® Portfolio to Drive Growth



Addressing Critical Need for Precision Manufacturing

Lasers



Enable processing materials with power output as much as that of a nuclear power plant compressed into a trillionth of a second

Beam Delivery & Conditioning



Enable targeting of the laser beam across the length of a football field to a spot the width of a human hair

Precision Motion & Positioning

Enable moving an object at 5 billion atoms per second but with a positional accuracy of the width of a few atoms



Laser Systems
Integrate these
Precision
Capabilities

Light Measurement

Enables laser power measurement from 300 femtowatts to 120 kilowatts, equivalent to a power range from one light bulb to 100x total sunlight on earth



Pending Acquisition of Atotech – A Leading Chemistry Solutions Provider



Electronics

- Advanced PCB, semiconductor IC packaging applications
- Equipment & consumables model creates sticky business
- Serves 28 of the top 30 PCB manufacturers⁽¹⁾

General Metal Finishing (GMF)

- Decorative & functional surface finishing applications
- Exposure to key trends such as premiumization, electrification
- Serves >6,000 customers across diverse industrial end-markets⁽¹⁾

⁽¹⁾Atotech June 2021 Investor Presentation.

Specialty Chemistry Solutions for Advanced PCBs, IC Packaging & Surface Finishing



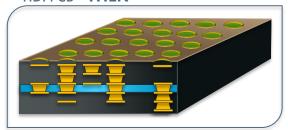
Optimizing the Interconnect Demands an Integrated Approach

Increased device complexity driving Advanced PCB and Packaging innovation, especially in mobile devices MKS:
Advanced PCB
via Drilling
Systems, Lasers,
Optics, Motion

Atotech
Electronics:
Process
Chemistry and
Equipment

Combination of Advanced PCB capabilities and expertise are unique and will accelerate new roadmaps

HDI PCB - THEN



Number of vias has increased by more than 4x from 250,000 to >1 million

Line/space and via size has decreased by more than 60%

HDI PCB - NOW



Adjacent Expertise Creates Significant Market Share Opportunities



Atotech's GMF Well-Positioned For Attractive Secular Trends



Electrification & Lightweight

- Driven by strict environmental regulations
 - Demand for new chrome colors



Cr (VI) Replacement



Premiumization



Wastewater Reduction



5G Infrastructure & Smartphones



Renewable Energy

- Enhanced plating of new plastics and lightweight metals
- Solutions for contact corrosion

- Constant trend towards higher quality
- Durability requirements
- Tighter global operating requirements
- Plating of new plastics for 5G antennas
- Non-magnetic coatings for camera housings
- Electroless nickel for mobile device housings

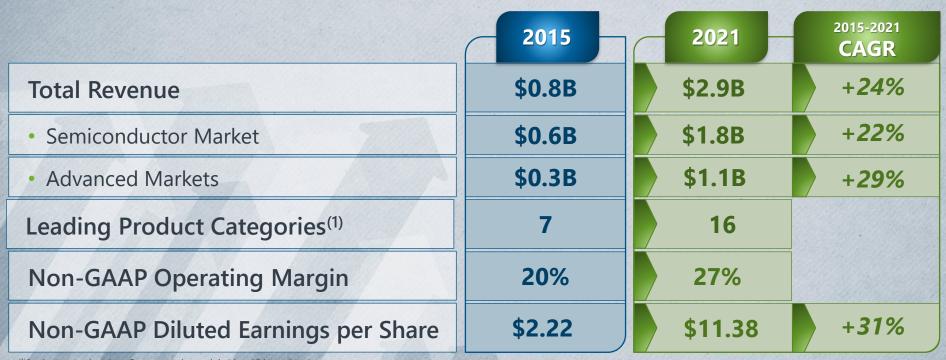
- Cost-efficient solutions for solar cells
- Corrosion protection for wind turbines

Strong
Value Creation
Track Record





Strong Operating & Financial Profile ...

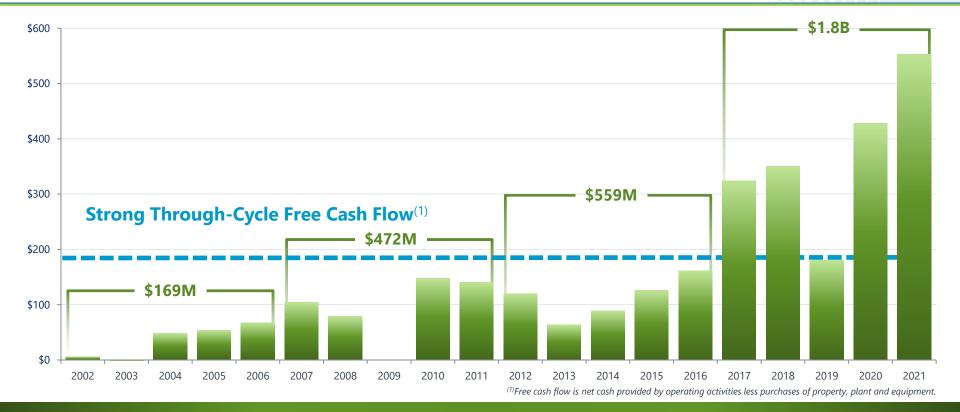


⁽¹⁾Product categories where Company estimates it is #1 or #2 in market share. ⁽²⁾From December 31, 2015 to February 1, 2022.





... Drives Accelerating Free Cash Flow Generation...



2019 "Trough" Greater than any "Peak" in MKS History through 2016



... Creating Balance Sheet Optionality

since inception

\$3.2 Billion Allocated Over Last 5 Years(1)

Successful acquisitions and integrations of ESI and

Opportunistic repurchases allow flexibility

| ACQUISITIONS | Photon Control position MKS for future growth | 41% | \$1,288 |
|---------------------|---|-----|---------|
| PRODUCT DEVELOPMENT | Collaborative approach through OCTO drives MKS innovation engine and optimizes R&D investment | 26% | \$ 805 |
| DEBT MANAGEMENT | Continued focus on de-levering; execute repricing events when opportune | 14% | \$ 452 |
| САРЕХ | Increased investments to continue to support above- market growth rates | 10% | \$ 330 |
| DIVIDEND | Initiated dividend in 2011; cumulative increase of 47% | 7% | \$ 216 |

⁽¹⁾Capital deployment from 2017-2021.

2%

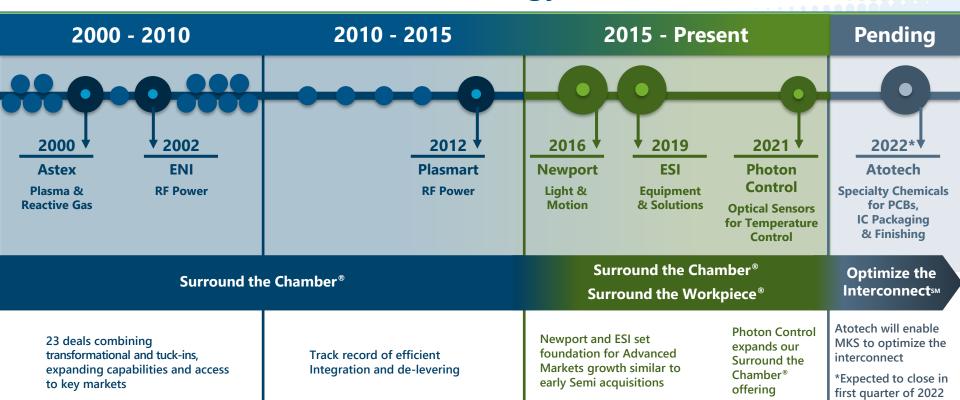
75%+ of Capital Reinvested in Growth Initiatives



SHARE BUYBACK

75

M&A is Core to MKS Growth Strategy



Significant Opportunities to Further Extend Technology and Market Position



Positioned for the Age of Miniaturization & Complexity

Growth Drivers



- A leading critical subsystem provider in Semi Market
- Advanced Markets poised to capitalize on growing need for laser-based processing
- Strategic acquisitions accelerate growth and broaden capabilities

Financial Execution



- Delivered on promised synergies
- Culture of continuous cost improvement
- Consistent track record of de-levering post acquisitions

Value Creation



- Strong through-cycle free cash flow provides balance sheet optionality
- Attractive long-term earnings growth outlook
- End-market diversity and execution underpin strong financial returns



Appendix –
GAAP to
Non-GAAP
Reconciliations





Appendix – GAAP to Non-GAAP Reconciliations

| (in millions, except per share data) Revenue | ï | 2015 813.5 | _ | 2021 2,949.6 | |
|---|----|----------------------|----|------------------------|--|
| Income from operations | \$ | 156.6 | \$ | 698.9 | |
| Sale of previously written-down inventory (1) | | (2.1) | | _ | |
| Inventory charge related to exit of product groups (Note 2) | | 0.5 | | _ | |
| Acquisition and integration costs (Note 3) | | _ | | 29.8 | |
| Restructuring and other (Note 5) | | 2.1 | | 11.1 | |
| Amortization of intangible assets | | 6.8 | | 55.3 | |
| Non-GAAP income from operations | \$ | 163.9 | \$ | 795.1 | |
| Non-GAAP operating margin | | 20.1% | | 27.0% | |
| Net income | \$ | 122.3 | \$ | 551.4 | |
| Sale of previously written-down inventory (1) | | (2.1) | | _ | |
| Inventory charge related to exit of product groups (Note 2) | | 0.5 | | _ | |
| Acquisition and integration costs (Note 3) | | _ | | 29.8 | |
| Amortization of debt issuance costs (Note 4) | | _ | | 1.2 | |
| Restructuring and other (Note 5) | | 2.1 | | 11.1 | |
| Amortization of intangible assets | | 6.8 | | 55.3 | |
| Release of tax reserves (Note 6) | | (7.7) | | _ | |
| Currency hedge loss (Note 7) | | _ | | 6.9 | |
| Windfall tax benefit on stock-based compensation (Note 8) | | _ | | (4.6) | |
| Withholding tax related to Brexit (Note 9) | | _ | | 3.2 | |
| Tax effect of Non-GAAP adjustments (Note 10) | | (2.8) | | (20.6) | |
| Non-GAAP net earnings | \$ | 119.1 | \$ | 633.7 | |
| Non-GAAP net earnings per diluted share | \$ | 2.22 | \$ | 11.38 | |
| Weighted average diluted shares outstanding | | 53.6 | | 55.7 | |



Appendix – GAAP to Non-GAAP Reconciliations

| (in millions) | 2 | 001 | 2002 | 2 | 2003 | 2004 | 20 | 005 | 2006 | 2007 | 2 | 2008 | 2009 | , | 2010 | 2011 | 2012 | 2013 | 2 | 014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|--|----|------|-------|--------|-------|---------|----|------|---------|----------|------|------|------|-----|-------|----------|----------|---------|----|-------|----------|----------|----------|----------|----------|----------|---------|
| Net cash provided by operating activities | \$ | 20.1 | \$ 13 | 3.8 \$ | (0.2) | \$ 66.4 | \$ | 64.2 | \$ 78.2 | \$ 119. | 1 \$ | 92.7 | \$ 4 | 1.9 | 163.5 | \$ 156.0 | \$ 137.2 | \$ 76.1 | \$ | 101.9 | \$ 138.3 | \$ 180.1 | \$ 355.2 | \$ 413.8 | \$ 244.5 | \$ 513.0 | \$ 640. |
| Purchases of property, plant and equipment | | 14.6 | | 7.9 | 6.3 | 18.3 | | 10.3 | 10.7 | 15.1 | 1 | 13.5 | 4 | 1.2 | 15.8 | 15.6 | 17.7 | 12.4 | | 13.2 | 12.4 | 19.1 | 31.3 | 62.9 | 63.9 | 85.0 | 87. |
| Free cash flow | \$ | 5.5 | \$! | 5.9 \$ | (6.5) | \$ 48.1 | \$ | 53.9 | \$ 67.5 | \$ 104.0 |) \$ | 79.3 | \$ 0 |).7 | 147.7 | \$ 140.5 | \$ 119.5 | \$ 63.7 | \$ | 88.7 | \$ 125.9 | \$ 161.0 | \$ 323.9 | \$ 350.8 | \$ 180.6 | \$ 428.0 | \$ 553. |



Appendix – GAAP to Non-GAAP Reconciliations

Non-GAAP financial measures adjust GAAP financial measures for the items listed below. These Non-GAAP financial measures should be viewed in addition to, and not as a substitute for, MKS' reported GAAP results, and may be different from Non-GAAP financial measures used by other companies. In addition, these Non-GAAP financial measures are not based on any comprehensive set of accounting rules or principles. MKS management believes the presentation of these Non-GAAP financial measures is useful to investors for comparing prior periods and analyzing ongoing business trends and operating results.

previously written down to net realizable value.

Note 2: We recorded an inventory charge related to the exit of certain product groups.

Note 3: Acquisition and integration costs during the twelve months ended December 31, 2021 related to our acquisition of Photon Control, our pending acquisition of Atotech and our proposed acquisition of Coherent, Inc.

Note 4: We recorded additional interest expense related to the amortization of debt issuance costs related to our Term Loan Credit Agreement and our ABL Credit Agreement (each credit agreement, as defined in our Annual Report on Form 10-K for the year ended December 31, 2021, as filed with the SEC on February 28, 2022).

Note 5: Restructuring and other costs during the twelve months ended December 31, 2021 related to severance costs from a global cost saving initiative, costs related to the pending closure of two facilities in Europe, movement of certain products to low cost regions and duplicate facility costs attributed to entering into new facility leases. Restructuring and other costs during the twelve months ended December 31, 2015 included charges related to the outsourcing and consolidation of a international manufacturing operations.

Note 1: We recorded a credit in cost of sales related to the sale of excess and obsolete inventory. Note 6: We recorded reserve releases related to the settlement of audits and expiration of the statute of limitations.

> Note 7: During the twelve months ended December 31, 2021, we recorded a fair-value loss from Canadian dollar contracts related to hedge currency fluctuations in connection with the funding of our acquisition of Photon Control, which was consummated on July 15, 2021. This loss was partially offset by a fair-value gain from Euro contracts related to hedge currency fluctuations in connection with the funding of our pending acquisition of Atotech.

Note 8: We recorded windfall tax benefits on the vesting of stock-based compensation.

Note 9: We recorded additional withholding taxes on inter-company undistributed earnings following the United Kingdom's withdrawal from the European Union.

Note 10: Non-GAAP adjustments are tax effected at applicable statutory rates resulting in a difference between the GAAP and Non-GAAP tax rates

