VAT Group AG

Impact Analysis: Sec. 301 Tariff Investigation

Investigation: China's Targeting of the Semiconductor Industry for Dominance **Analysis Date:** July 22, 2025 at 12:59 PM

Company Name:

VAT Group AG

Country:

Switzerland

Annual Revenue:

\$1,040,000,000

Revenue Impact Potential:

95%

Geographic Scope:

Global

Role:

VAT Group is the global leader in high-end vacuum valves, which are indispensable for nearly all vacuum-based semiconductor manufacturing processes, including deposition, etching, and ion implantation. They hold an estimated 75% market share in vacuum valves for semiconductor production.

Executive Summary

VAT Group AG, the global leader in high-end vacuum valves critical for semiconductor manufacturing, faces potential headwinds from the USTR's Section 301 investigation into China's semiconductor industry. While VAT's dominant market position (estimated 75% share in semiconductor vacuum valves) and diversified global manufacturing base offer resilience, its significant revenue exposure to Asia (67% of net sales in 2024, with China being a key driver) presents a material risk. Potential tariffs or restrictions on China's semiconductor production, particularly in mature nodes, could dampen demand for VAT's products in this crucial market. However, China's ongoing drive for self-sufficiency, which VAT currently benefits from, could also present opportunities if VAT maintains its "must-have" partner status with domestic Chinese toolmakers. Investors should monitor the investigation's outcome, VAT's strategic supply chain adjustments, and its continued innovation in advanced technologies.

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1. Current Business Model

Primary Products/Services:

VAT Group AG develops, manufactures, and supplies high-performance vacuum valves, multi-valve modules, and edge-welded metal bellows. These components are indispensable for nearly all vacuum-based semiconductor manufacturing processes, including deposition, etching, and ion implantation. The company also offers a growing Global Service segment (18% of 2024 turnover) providing spare parts, repairs, and upgrades.

Key Customers and Markets:

VAT's primary customers are leading semiconductor equipment manufacturers (OEMs) such as Applied Materials, ASML, and Lam Research, which collectively account for a substantial portion of its revenue. While VAT serves the global semiconductor, display, and solar industries, Asia is its largest market, contributing 67% of net sales in 2024, followed by the USA (19%) and EMEA (14%). China is a significant and growing market, driven by regionalization initiatives.

Supply Chain Dependencies:

VAT operates a global manufacturing footprint with primary facilities in Haag, Switzerland; Penang, Malaysia; and Arad, Romania. It also has a facility in Xinwu, Taiwan. The company employs a "best-cost country (BCC) sourcing strategy," aiming to increase BCC share from 25% in 2022 to over 55% by 2027, enhancing supply chain flexibility.

Competitive Position:

Bargaining Power of Buyers (Low-Medium): While customers are large OEMs, VAT's products are mission-critical, highly customized, and essential for yield and performance, limiting buyer power.

Bargaining Power of Suppliers (Low): VAT's scale and diversified sourcing strategy mitigate supplier power.

Threat of New Entrants (Low): High barriers to entry exist due to the extreme precision, technological complexity, significant R&D investment (5-6% of sales), extensive patent portfolio (500 patents), and long qualification cycles required for vacuum valves in semiconductor manufacturing.

Threat of Substitutes (Low): No viable substitutes exist for high-end vacuum valves in advanced vacuum-based semiconductor processes.

Intensity of Rivalry (Low-Medium): Despite competitors like MKS Instruments and Pfeiffer Vacuum, VAT maintains a dominant market share (estimated 75% in semiconductor vacuum valves), indicating a less fragmented and intensely competitive core market.

2. Direct Impact Assessment

The USTR's Section 301 investigation, initiated in December 2024, targets China's efforts to dominate the semiconductor industry, focusing on foundational (legacy/mature node) semiconductors and their integration into critical downstream products.

Impact on Products/Services:

If the investigation results in tariffs on Chinese-produced semiconductors or restrictions on the sale of semiconductor manufacturing equipment to Chinese fabs, it could directly reduce the demand for VAT's vacuum valves within China. This would particularly affect sales to Chinese foundries and OEMs, which are currently a strong growth driver for VAT. While VAT supplies valves for cutting-edge processes (e.g., 2nm nodes, ALD), the investigation's initial focus on mature nodes could still impact VAT, as China's overall WFE spending, including for legacy technologies, is substantial and VAT supplies both domestic Chinese toolmakers and legacy suppliers.

Materials and Sourcing:

VAT's manufacturing facilities are primarily in Switzerland, Malaysia, and Romania, with a presence in Taiwan. Direct tariffs on VAT's products exported to China are less likely given its Swiss origin, but retaliatory tariffs from China on specific components or equipment could be a risk. Tariffs on raw materials or sub-components sourced from China, if applicable, could increase VAT's input costs.

Passing Costs to Customers:

Given VAT's dominant market share and the mission-critical nature of its products, it possesses significant pricing power. This could allow VAT to absorb some increased input costs or pass them on to customers, mitigating margin pressure. However, the extent depends on the magnitude of cost increases and the overall health of the semiconductor equipment market.

3. Strategic Response Options

Business Model Adjustments:

While semiconductors are VAT's core, it also serves display, solar, and industrial/research sectors. Increased focus and investment in these nonsemiconductor vacuum applications could partially offset any slowdown in the Chinese semiconductor market. The Global Service segment is more profitable and less cyclical; accelerating growth here (e.g., retrofits, upgrades, predictive maintenance solutions) could enhance revenue stability.

Supply Chain Strategies:

Expedite the shift towards a higher share of best-cost country sourcing to reduce reliance on any single region for critical components. Further localize production or increase capacity in non-Chinese Asian markets (e.g., Malaysia, Taiwan) or other regions (e.g., Europe, US) to serve customers less impacted by US-China tensions.

Geographic Focus:

Intensify sales and support efforts in the US, Europe, Japan, and other Asian markets (e.g., Korea, Singapore) to capitalize on domestic fab investments (e.g., US CHIPS Act). Maintain a strong, localized presence in China to serve domestic toolmakers and fabs, adapting to local content requirements or "in-China, for-China" strategies if necessary.

Product Modifications:

Continue to invest heavily in R&D for cutting-edge technologies (e.g., 2nm nodes, ALD, HBM) that are less likely to be subject to broad restrictions. Further develop smart valves with IoT and AI capabilities for predictive maintenance and energy efficiency, aligning with industry trends and offering value beyond basic functionality.

4. Risk Factors

- **Vulnerability to Supply Chain Disruptions:** While diversified, unforeseen tariffs or export controls on specific materials or components, particularly if China retaliates, could disrupt VAT's production or increase costs.
- Dependence on Specific Markets or Customers: The high concentration of revenue from Asia (67%) and key OEMs (Applied Materials, ASML, Lam Research) makes VAT susceptible to downturns or policy shifts in these areas. A significant slowdown in Chinese semiconductor capital expenditure due to tariffs would directly impact VAT.
- Competitive Threats or Opportunities: While dominant, an accelerated push
 for domestic alternatives in China, spurred by US restrictions, could foster
 local competition. However, VAT's technological lead and established
 customer relationships act as strong moats. Conversely, if US actions
 weaken Chinese competitors, it could create opportunities for VAT in other
 markets.
- **Geopolitical Escalation:** The Section 301 investigation could lead to broader trade tensions, impacting global economic growth and overall semiconductor demand, beyond direct tariff effects.

5. Long-term Implications

Market Share Potential:

Sustained US tariffs or restrictions could lead to a decline in VAT's market share within China if Chinese fabs are significantly curtailed or if domestic Chinese vacuum valve suppliers gain preferential treatment. Conversely, increased investment in semiconductor manufacturing in the US, Europe, and Japan could drive market share gains for VAT in these regions.

Investment Opportunities:

Continued investment in R&D (e.g., new Innovation Center in Switzerland) will be crucial to maintain its technology lead. Further expansion of manufacturing capacity in Malaysia, Romania, or potentially new sites in the Americas/Europe could de-risk its supply chain.

Strategic Partnerships:

Strengthen existing partnerships with global semiconductor OEMs to ensure VAT remains their preferred supplier for advanced process tools, regardless of where those tools are deployed. Explore strategic acquisitions of smaller, innovative companies in adjacent vacuum technologies or specialized component manufacturers to broaden its product portfolio.

Key Uncertainties and Scenario Outcomes

- Severity and Scope of Tariffs: The primary uncertainty is the specific nature and extent of remedies imposed by the USTR. A broad tariff on all Chinese semiconductor imports or severe export controls on equipment to China would have a more significant negative impact.
- Chinese Retaliation: The nature and extent of China's retaliatory measures are uncertain. While China has historically avoided broad tariffs on critical semiconductor equipment, this could change.
- Pace of Chinese Self-Sufficiency: The investigation could accelerate
 China's drive for domestic semiconductor equipment. If China
 prioritizes domestic suppliers, VAT could face increased competition.
 However, if VAT can continue to be a critical technology partner for
 Chinese domestic toolmakers, it could maintain its position.

Actionable Recommendations

For Investors:

- Monitor USTR Outcomes:
 Closely track the USTR's final determinations and any specific tariffs or restrictions announced, particularly their impact on semiconductor equipment sales to China.
- Assess Geographic Revenue
 Mix: Pay attention to VAT's
 quarterly revenue breakdown
 by geography and customer
 type to gauge the impact of any
 shifts in the global
 semiconductor landscape.
- Evaluate R&D and Capex: Look for continued strong R&D investment and strategic capital expenditure in non-Chinese manufacturing facilities as indicators of long-term resilience and adaptation.
- Consider Long-Term Moat:
 Despite short-term geopolitical risks, VAT's strong market moat, technological leadership, and critical product offering make it a compelling long-term play in the secular growth of the semiconductor industry.

For Management:

- Proactive Engagement:
 Engage with relevant
 government bodies (e.g.,
 USTR, Swiss government) to
 advocate for the importance of
 global supply chains and the
 potential unintended
 consequences of broad tariffs.
- Accelerate Diversification:
 Expedite the "best-cost country" sourcing strategy and explore opportunities to expand into non-semiconductor vacuum applications and grow the Global Service segment.
- Strengthen Non-China
 Growth: Prioritize sales and support in regions benefiting from domestic semiconductor investment (e.g., US, Europe, Japan) to capitalize on new fab constructions.
- Maintain China Relationships:
 Continue to foster strong
 relationships with domestic
 Chinese OEMs and fabs,
 adapting product offerings or
 localizing support to navigate
 potential "in-China, for-China"
 policies.