

ROBO Global Index 3Q24 Commentary

September 30, 2024

The [ROBO Global Robotics and Automation Index \(ROBO\)](#) returned 5.6% during the third quarter of 2024, with earnings season commentary and macro events showing signs of recovery that indicate we may be past the bottom of the cycle. As an example, **Omnice**ll, one of the top performers of the quarter (+58.9%), trades at just 1.8x Forward EV/Sales and is still down 4% year-over-year at the end of Q3. Similarly, Germany-based (+12.4%) companies in the portfolio also trade at relatively low valuations, albeit with slower and steady revenue growth compared to mega caps, such as **Duer** (+17%), which trades at 0.45x Forward EV/Sales and 2.45x Forward P/E.

This complex landscape of valuations and performance within the robotics sector suggests opportunities as the market recovers. The sector is currently experiencing a lag between new robotics deployments and ongoing revenues, due to factors such as the election year, pull-through from end markets, record high manufacturing construction in the US, and the emerging benefits and applications of AI in robotics.

Q3 2024 saw notable developments across various aspects of the robotics sector. Japan constituents, representing 20.7% of ROBO, were up 7.8% for Q3, demonstrating resilience despite temporary market fluctuations, namely the Japanese reverse carry trade. The initiation of interest rate reductions bodes well for the capital-intensive robotics space, with potential post-election clarity likely to amplify this positive effect. Technological advancements continue apace, with ongoing development in humanoid and autonomous mobile robotics across various applications. Major players are also entering the field, exemplified by **Apple's** reported internal launch into home robotics. It's worth noting that while ROBO includes many recognizable brands, it also comprises numerous "behind-the-scenes" players that contribute significantly to the sector's value and innovation.

The **sensing** subsector (+17.1%) exemplifies the strength and diversity within ROBO. It includes rising stars like **Samsara** (+41%), which excels in physical automation tracking, alongside established Japanese companies such as **Omron** (+40.3%) and **Keyence** (+13.7%). These firms provide crucial industrial automation sensing solutions, playing a vital role in empowering manufacturing and automation processes worldwide. Their strong performance underscores the growing importance of advanced sensing technologies in the global robotics and automation landscape.

Computing and AI, the weakest subsector this quarter (5.1%), experienced a cooling off period for some of its recent high performers. Companies like **Microchip** (-11.6%), **Qualcomm** (-14.3%), and **Cadence Design Systems** (-10.9%) saw a slowdown after nearly two years of strong AI-driven momentum since the Q3 2022 low. This shift suggests a more diverse pattern of returns emerging within the sector. Notably, even industry leader **NVIDIA** (-1.7%) found itself in the bottom third of performers, indicating a potential rebalancing of growth across the AI and computing landscape.

ROBO's Q2 earnings season delivered positive surprises on both top and bottom lines. However, overall year-over-year EPS declined by 7.7%. Despite this, full-year estimates remain optimistic at +8.6%, with expectations of a stronger Q4 to end the year. Looking further ahead, projections indicate a robust 20.7% growth in 2025 (based on weighted-average FactSet consensus as of Sept. 27, 2024). Notably, the portfolio's profitability profile is set to improve, with the percentage of profitable constituents expected to increase from 95% in 2024E to 99% by 2026E, underscoring the sector's growing maturity and financial stability.

The late-quarter rebound in China has primarily benefited larger tech players, but the effects of stimulus measures are expected to spread to the broader economy, potentially boosting companies with Chinese exposure, including many of our Japanese constituents. ROBO's recent addition of **Hon Hai Precision Industry** (commonly known as **Foxconn**), with an estimated 75% of its operations in China, reflects this trend. However, **Foxconn's** expanding automation capabilities in countries like India and Vietnam also highlight a broader shift towards diversifying manufacturing bases, a development that could reshape the robotics and automation landscape in Asia.

We believe the manufacturing cycle has reached its nadir, signaling potential upside for our largest subsector and tech areas such as **Actuation**. While projections for full-year 2024 show year-over-year sales declines for 27 out of 78 constituents, the outlook for 2025 is significantly more positive. Only three constituents are expected to see declining sales in 2025, with the overall portfolio anticipated to achieve 10.6% sales growth (based on weighted-average FactSet consensus as of Sept. 27, 2024). This forecast underscores our confidence in the sector's recovery and growth potential.

Looking ahead, numerous promising applications are on the horizon, with immediate catalysts emerging in semiconductor and energy manufacturing. However, current valuations do not yet fully reflect this potential, presenting what we believe to be attractive long-term opportunities as this new cycle unfolds. Importantly, the impact of AI on robotics is still in its early stages and should not be underestimated. As this synergy develops, it could drive significant innovation and growth in the robotics sector, potentially reshaping the industry landscape in the coming years.

About VettaFi

VettaFi is a provider of indexing, data & analytics, industry leading conferences, and digital distribution services to ETF issuers and fund managers. It operates the ETFdb, Advisor Perspectives, and ETF Trends websites and the LOGICLY portfolio analytics platform—engaging millions of investors annually—empowering and educating the modern financial advisor and institutional investor. VettaFi owns and administers the ROBO Global Index Series. For more information, please visit: www.vettafi.com.

VettaFi LLC, is a wholly owned subsidiary of TMX Group Limited (TMX Group). For more information about TMX Group, please visit: www.tmx.com.

vettafi.com | 1330 Avenue of the Americas, New York, NY 10019

VettaFi Disclaimer

This Document Is Impersonal and Not a Solicitation. ROBO Global, LLC is a wholly owned subsidiary of VettaFi LLC. VettaFi LLC, collectively with its affiliates and subsidiaries, is referred to herein as (“VettaFi”). This document does not constitute an offering of any security, product, or service. All information provided by VettaFi in this document is impersonal and not customized to the specific needs of any entity, person, or group of persons.

About the Index. The Robo Global Robotics and Automation Index™ (the “Index”) seeks to track the combined performance of a basket of global stocks that identify eleven (11) subsectors of suitable product and technology maturity to the robotics and automation theme. These subsectors carry high growth and earnings potential and are regularly screened to identify companies that are publicly traded, meet a minimum robotics revenue threshold, are positioned as technology and growth leaders, and satisfy our ESG Policy. The Index and its trademarked name are the exclusive property of VettaFi.

No Advisory Relationship. VettaFi is not a fiduciary or an investment advisor, and VettaFi makes no representation regarding the advisability of investing in any investment fund or other vehicle. This document should not be construed to provide advice of any kind, including, but not limited to, investment, tax or legal.

You Must Make Your Own Investment Decision. It is not possible to invest directly in an index. Exposure to an asset class represented by an index is available through investable instruments based on that index. You should not make a decision to invest in any investment fund or other vehicle based on the statements set forth in this document. You should only make an investment in an investment fund or other vehicle after carefully evaluating the risks associated

with such an investment in the investment fund, as detailed in the offering memorandum or similar document prepared by or on behalf of the issuer. This document does not contain, and does not purport to contain, the level of detail necessary to give sufficient basis to an investment decision. VettaFi does not sponsor, endorse, sell, promote, or manage any investment fund or other investment vehicle that is offered by third parties and that seeks to provide an investment return based on the performance of any index.

No Warranties; Limitation of Liability. While VettaFi believes that the information contained in this document (collectively, the “Content”) is reliable, VettaFi does not guarantee the accuracy, completeness, timeliness, or availability of the Content in whole or in part. VettaFi is not responsible for any errors or omissions, regardless of the cause, in the Content which may change without notice. VettaFi makes no warranties, express or implied, as to results to be obtained from use of the Content, and VettaFi expressly disclaims all warranties of suitability with respect thereto. VettaFi shall not be liable for any claims or losses of any nature in connection with the use of the Content, including but not limited to, lost profits or punitive or consequential damages, even if VettaFi has been advised of the possibility of same.

Research May Not Be Current. This document has been prepared solely for informational purposes based on information generally available to the public from sources believed to be reliable. VettaFi does not assume any obligation to update the Content following publication in any form or format.