

Rating Action: Moody's Ratings changes ASML's outlook to positive; affirms A2 ratings

23 Apr 2024

Frankfurt am Main, April 23, 2024 -- Moody's Ratings (Moody's) changed the outlook of ASML Holding N.V. ("ASML") to positive from stable. At the same time, Moody's affirmed ASML's A2 senior unsecured ratings.

RATINGS RATIONALE

Moody's changed ASML's outlook to positive from stable to reflect its strong operating performance and Moody's expectation that ASML will maintain its strong market position and benefit from structural growth drivers, including robust spending on generative Artificial Intelligence (AI) infrastructure. Consequently, Moody's has increased confidence that ASML can maintain a highly liquid and conservative balance and strong financial performance through semiconductor industry cycles, which would support a higher rating. These include EBITDA margins (Moody's adjusted) of around 37% in 2023, average annual Free Cash Flow (Moody's adjusted, after dividends) of \in 5.0 billion in the period 2021-2023 and Moody's adjusted Debt / EBITDA below 1.0x in 2023.

ASML's unique position in the semiconductor equipment industry, including its monopoly in extreme ultraviolet (EUV) lithography, a critical technology used for manufacturing complex chips used in various applications, including data centers, mobile devices, autonomous driving, and others; its strong track record of innovation, in close collaboration with customers and suppliers; the underlying growth fundamentals propelled by secular trends, leading to sustained high investment spending from semiconductor manufacturers; the growing number of installed systems that will drive growth in recurring installed base management revenues; its flexible cost structure, and a track record of prudent financial policies, all support its A2 rating. ASML's public commitment to maintaining adequate liquidity to ensure continued business growth and to provide buffer for cash flow volatility illustrates its conservative financial policy, which Moody's expects will continue to support the company's strong credit metrics.

ASML's credit challenges include demand volatility, potential trade restrictions,

technological risks, and operational, customer and product concentration risks. Global trade tensions, which increasingly focus on technology supply chains, pose a risk to ASML's ability to serve customers worldwide. However, given strong global demand, ASML has opportunity to ship equipment to customers in regions that are unaffected by trade restrictions.

Technological risks exist with commercial adoption of its new generation tools, high numerical aperture (NA) EUV lithography, and there is a risk of potential competitors in the lithography market, though the barriers to entry are very high. ASML's high customer and supplier concentration, as well as concentration of production present additional risks. Despite these, ASML's financial flexibility with €5.4 billion of cash and liquid investments and low financial leverage (0.5x total debt to EBITDA, Moody's adjusted) as of March 2024 provides a buffer to mitigate these risks.

POSITIVE OUTLOOK

The rating is strongly positioned in the A2 rating category. The positive outlook reflects Moody's expectation that strong underlying fundamental drivers, including robust spending on generative Artificial Intelligence (AI) infrastructure, will benefit ASML's earnings in the next 18 to 24 months. It also reflects Moody's expectation that the company will maintain its strong market position, consistent product road map execution (including high NA) and financial discipline through industry cycles.

LIQUIDITY

ASML 's liquidity is strong and is supported by the cash and liquid investments of €5.4 billion as of March end-2024, the €700 committed credit facility due 2026, with no financial covenants, and no near-term debt maturities. The high cash balance and Moody's projection of annual funds from operations around €8 billion in 2024 and around €11 billion in 2025 are more than sufficient to accommodate its working capital, capital spending needs (around €1.7 billion), and dividends (around €2.5 billion).

FACTORS THAT COULD LEAD TO AN UPGRADE OR DOWNGRADE OF THE RATINGS

Moody's could upgrade ASML's ratings if the company continues to demonstrate strong business execution with progress on its product roadmap, including its high NA EUV lithography. In addition, a higher rating would require further strengthening of company's financial profile, including improvement in its Moody's adjusted EBITDA margins and FCF growth, as well as continued commitment to its conservative financial policy including maintenance of a strong cash position and low debt levels.

Ratings could be downgraded if ASML were to experience a sustained erosion of market share, which would indicate the loss of technological leadership and execution. Also, a departure from conservative fiscal practices, a materially weaker

liquidity profile, or gross adjusted debt to EBITDA sustained above 2.25x could cause ratings pressure.

The principal methodology used in these ratings was Semiconductors published in October 2023 and available at <u>https://ratings.moodys.com/rmc-documents/410350</u>. Alternatively, please see the Rating Methodologies page on <u>https://ratings.moodys.com</u> for a copy of this methodology.

COMPANY PROFILE

ASML Holding N.V. (ASML) is the world's leading provider of lithography systems used in the semiconductor industry in terms of revenue. The company manufactures complex machines that are not only critical to the leading-edge production of integrated circuits but also used for the production of the more matured notes. Headquartered in Veldhoven, the Netherlands, ASML generated revenue of €26.1 billion in the 12 months that ended March 2024.

REGULATORY DISCLOSURES

For further specification of Moody's key rating assumptions and sensitivity analysis, see the sections Methodology Assumptions and Sensitivity to Assumptions in the disclosure form. Moody's Rating Symbols and Definitions can be found on https://ratings.moodys.com/rating-definitions.

For ratings issued on a program, series, category/class of debt or security this announcement provides certain regulatory disclosures in relation to each rating of a subsequently issued bond or note of the same series, category/class of debt, security or pursuant to a program for which the ratings are derived exclusively from existing ratings in accordance with Moody's rating practices. For ratings issued on a support provider, this announcement provides certain regulatory disclosures in relation to the credit rating action on the support provider and in relation to each particular credit rating action for securities that derive their credit ratings from the support provider's credit rating. For provisional ratings, this announcement provides certain regulatory disclosures in relation to the provisional rating assigned, and in relation to a definitive rating that may be assigned subsequent to the final issuance of the debt, in each case where the transaction structure and terms have not changed prior to the assignment of the definitive rating in a manner that would have affected the rating. For further information please see the issuer/deal page for the respective issuer on https://ratings.moodys.com.

For any affected securities or rated entities receiving direct credit support from the primary entity(ies) of this credit rating action, and whose ratings may change as a result of this credit rating action, the associated regulatory disclosures will be those of the guarantor entity. Exceptions to this approach exist for the following disclosures, if applicable to jurisdiction: Ancillary Services, Disclosure to rated entity, Disclosure from rated entity.

These ratings are solicited. Please refer to Moody's Policy for Designating and Assigning Unsolicited Credit Ratings available on its website <u>https://ratings.moodys.com</u>.

Regulatory disclosures contained in this press release apply to the credit rating and, if applicable, the related rating outlook or rating review.

The Global Scale Credit Rating(s) discussed in this Credit Rating Announcement was(were) issued by one of Moody's affiliates outside the UK and is(are) endorsed for use in the UK in accordance with the UK CRA Regulation.

Please see https://ratings.moodys.com for any updates on changes to the lead rating analyst and to the Moody's legal entity that has issued the rating.

Please see the issuer/deal page on https://ratings.moodys.com for additional regulatory disclosures for each credit rating.

Svitlana Ukrayinets Asst Vice President - Analyst Corporate Finance Group Moody's Deutschland GmbH An der Welle 5 Frankfurt am Main, 60322 Germany JOURNALISTS: 44 20 7772 5456 Client Service: 44 20 7772 5454

Karen Berckmann, CFA Associate Managing Director Corporate Finance Group JOURNALISTS: 44 20 7772 5456 Client Service: 44 20 7772 5454

Releasing Office: Moody's Deutschland GmbH An der Welle 5 Frankfurt am Main, 60322 Germany JOURNALISTS: 44 20 7772 5456 Client Service: 44 20 7772 5454

© 2024 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc.

and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved.

CREDIT RATINGS ISSUED BY MOODY'S CREDIT RATINGS AFFILIATES ARE THEIR CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MATERIALS, PRODUCTS, SERVICES AND **INFORMATION PUBLISHED BY MOODY'S (COLLECTIVELY,** "PUBLICATIONS") MAY INCLUDE SUCH CURRENT OPINIONS. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT OR IMPAIRMENT. SEE APPLICABLE MOODY'S RATING SYMBOLS AND DEFINITIONS PUBLICATION FOR INFORMATION ON THE TYPES OF CONTRACTUAL FINANCIAL OBLIGATIONS ADDRESSED BY MOODY'S CREDIT RATINGS. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK. INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, **OR PRICE VOLATILITY. CREDIT RATINGS, NON-CREDIT ASSESSMENTS** ("ASSESSMENTS"). AND OTHER OPINIONS INCLUDED IN MOODY'S PUBLICATIONS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S PUBLICATIONS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS. INC. AND/OR ITS AFFILIATES. MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER **OPINIONS AND PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE** INVESTMENT OR FINANCIAL ADVICE. AND MOODY'S CREDIT RATINGS. ASSESSMENTS. OTHER OPINIONS AND PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. MOODY'S CREDIT RATINGS. ASSESSMENTS. OTHER OPINIONS AND PUBLICATIONS DO NOT COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS, ASSESSMENTS AND OTHER **OPINIONS AND PUBLISHES ITS PUBLICATIONS WITH THE EXPECTATION** AND UNDERSTANDING THAT EACH INVESTOR WILL. WITH DUE CARE. MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS **UNDER CONSIDERATION FOR PURCHASE, HOLDING, OR SALE.**

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS, AND PUBLICATIONS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS OR PUBLICATIONS WHEN MAKING AN INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER. ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT.

MOODY'S CREDIT RATINGS, ASSESSMENTS, OTHER OPINIONS AND PUBLICATIONS ARE NOT INTENDED FOR USE BY ANY PERSON AS A BENCHMARK AS THAT TERM IS DEFINED FOR REGULATORY PURPOSES AND MUST NOT BE USED IN ANY WAY THAT COULD RESULT IN THEM BEING CONSIDERED A BENCHMARK.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the credit rating process or in preparing its Publications.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information contained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY CREDIT RATING, ASSESSMENT, OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

Moody's Investors Service, Inc., a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by Moody's Investors Service, Inc. have, prior to assignment of any credit rating, agreed to pay to Moody's Investors Service, Inc. for credit ratings opinions and services rendered by it fees ranging from \$1,000 to approximately \$5,000,000. MCO and Moody's Investors Service also maintain policies and procedures to address the independence of Moody's Investors Service credit ratings and credit rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold credit ratings from Moody's Investors Service, Inc. and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at www.moodys.com_under the heading "Investor Relations — Corporate Governance — Director and Shareholder Affiliation Policy."

Additional terms for Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. MOODY'S credit rating is an opinion as to the creditworthiness of a debt obligation of the issuer, not on the equity securities of the issuer or any form of security that is available to retail investors.

Additional terms for Japan only: Moody's Japan K.K. ("MJKK") is a wholly-owned credit rating agency subsidiary of Moody's Group Japan G.K., which is wholly-owned by Moody's Overseas Holdings Inc., a wholly-owned subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ") is a wholly-owned credit rating agency subsidiary of MJKK. MSFJ is not a Nationally Recognized Statistical Rating Organization ("NRSRO"). Therefore, credit ratings assigned by MSFJ are Non-NRSRO Credit Ratings. Non-NRSRO Credit Ratings are assigned by an entity that is not a NRSRO and, consequently, the rated obligation will not qualify for certain types of treatment under U.S. laws. MJKK and MSFJ are credit rating agencies registered with the Japan

Financial Services Agency and their registration numbers are FSA Commissioner (Ratings) No. 2 and 3 respectively.

MJKK or MSFJ (as applicable) hereby disclose that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by MJKK or MSFJ (as applicable) have, prior to assignment of any credit rating, agreed to pay to MJKK or MSFJ (as applicable) for credit ratings opinions and services rendered by it fees ranging from JPY100,000 to approximately JPY550,000,000.

MJKK and MSFJ also maintain policies and procedures to address Japanese regulatory requirements.