



TSMC Celebrates the Opening of JASM in Kumamoto, Japan

KUMAMOTO, Japan, Feb. 24, 2024 – TSMC (TWSE: 2330, NYSE: TSM) today held an opening ceremony for its majority-owned subsidiary Japan Advanced Semiconductor Manufacturing, Inc. (JASM) in Kumamoto Prefecture, Japan, bringing together suppliers, customers, business partners, academia and the Japanese government to show appreciation for their continued support and the joint effort that led to the success of the project.

Representatives from TSMC included TSMC Founder Dr. Morris Chang, TSMC Chairman Dr. Mark Liu, and TSMC CEO Dr. C.C. Wei, who all shared insightful remarks. During the event, Prime Minister Kishida announced through video that the Japanese government has decided to support the newly-announced expansion of JASM as a concrete example of its implementation of the Domestic Investment Promotion Package formulated in December last year.

Distinguished guests included Japanese Minister of Economy, Trade and Industry Ken Saito, Chairman of the Liberal Democratic Party coalition in Semiconductor Strategy Akira Amari, Former Minister of Economy, Trade and Industry Koichi Hagiuda, Kumamoto Governor Ikuo Kabashima, as well as representatives of key partners in establishing JASM: Sony Group Corporation Chairman and CEO Kenichiro Yoshida, DENSO Corporation President and COO Shinnosuke Hayashi, Toyota Motor Corporation Chairman Akio Toyoda, and construction partner Kajima Corporation President Hiromasa Amano.

The opening marks a significant milestone for JASM, which was established in 2021 and started construction in April 2022, with production targeted to begin by the end of 2024. TSMC and minority investors Sony Semiconductor Solutions (SSS), DENSO and Toyota also recently announced further investment into JASM to build a second fab, which is scheduled to commence construction by the end of 2024 and begin operation by the end of the 2027 calendar year.

With both fabs, JASM's Kumamoto site is expected to offer a total production capacity of more than 100,000 12-inch wafers per month starting from 40, 22/28, 12/16 and 6/7 nanometer process technologies for automotive, industrial, consumer and HPC-related applications. The overall investment in JASM will exceed US\$20 billion with strong support from the Japanese government. The two fabs are expected to directly create more than 3,400 high-tech professional jobs.

In line with TSMC's commitment to green manufacturing, JASM will implement rigorous sustainability practices including using 100% renewable energy when it starts operation, replenishing more than 100% of the groundwater it uses, and building a local supply chain.

“JASM will use the latest green manufacturing practices to produce best-in-class specialty



semiconductor technology that will help to unleash innovation and bolster the Japanese economy for years to come,” said TSMC Chairman Dr. Mark Liu. “We are thankful for the joint efforts of our partners in Japan whose unfaltering support has contributed greatly to the success of this project.”

JASM Opening Ceremony Third Party Quotes

Sony Group Corporation

I am deeply moved that today’s opening ceremony is taking place just over 3 years after the request of Dr. C.C. Wei, CEO of TSMC for our support in their production in Japan. I believe the foundry business serves as the foundation for delivering numerous innovations and has made a significant contribution to economic and social development. We continue to support further contributions of TSMC and JASM toward overall industry growth.

- Kenichiro Yoshida, Chairman and CEO, Sony Group Corporation

DENSO CORPORATION

We are very pleased to attend today’s JASM Opening Ceremony. The role of semiconductors is becoming increasingly important in promoting the evolution of transportation such autonomous driving and electrification. Along with the continued development of our strong partner JASM, DENSO will make contributions to the overall automotive industry through stable medium- to long-term semiconductor procurement.

- Koji Arima, Chairman & CEO, DENSO CORPORATION

Toyota Motor Corporation

I would like to extend my heartfelt congratulations on today's major milestone, the opening of JASM. The entire Japanese automotive industry is very grateful for the start of production of automotive semiconductors, and we will never forget the kindness of TSMC, who extended a helping hand to us when the automotive industry was unable to produce cars in the past due to a shortage of semiconductors. I hope that together with the people of Kumamoto, TSMC and JASM can further develop manufacturing in the region. Our industry has a broad base of 5.5 million people, and if we extend it to the mobility industry, it's eight million of us who are moving towards the future together every day. We are committed to building an even better future with a wide range of stakeholders beyond the industry, based on trust and mutual understanding. I would like to take this opportunity to extend my congratulations, again.

- Akio Toyoda, Chairman of the Board of Directors, Toyota Motor Corporation

-



(in alphabetical order)

Construction Partners

Kajima Corporation

First of all, I would like to congratulate TSMC and JASM on their opening ceremony. Due to its enormous scale and challenging timeline, the project was a highly difficult undertaking that required us to gather all our resources at Kajima to complete. If we can successfully complete it, it will be an invaluable experience for us. We are fortunate to have clients with rich experience in semiconductor fab construction to guide us. The project has progressed smoothly and was completed on schedule. It is meaningful for our company to be able to work alongside a world-renowned company like TSMC to build JASM, a national-level project. I would like to take this opportunity to express my gratitude and wish TSMC and JASM a prosperous future.

- Hiromasa Amano, President and Representative Director, Kajima Corporation

Taikisha

Taikisha appreciates for the opportunity to have participated in the construction of this unprecedented large-scale, short-period project upon TSMC's expansion to Japan. We wish TSMC's continued success in Japan, and we will continue to contribute to the economic activities between Taiwan and Japan, as well as to the development of the international society.

- Masashi Osada, President of Taikisha

Suppliers

Canon Inc.

Congratulations on the opening ceremony of JASM Kumamoto first plant. We strongly believe that the most advanced semiconductor manufacturing technology you have will make a significant contribution to revitalizing the economies of Japan and Kumamoto and to worldwide growth. We, ultra-precision technology professionals, will support JASM's technology growth and create the future of Japanese semiconductor industry with you.

- Hiroaki Takeishi, Senior Managing Executive Officer of Canon Inc.

Ebara Corporation

EBARA is excited by JASM's opening. As TSMC leads the industry's global growth, it is very grateful to welcome JASM in Japan where EBARA's headquarter is located. Being able to be a trusted partner for TSMC's new investment is such an honor and we commit to work together closely for its success and more technology innovation.

- Masao Hodai, Executive Officer, CoO of Precision Machinery Company, Ebara Corporation



Hitachi High-Tech Corporation

Congratulations on today's JASM opening ceremony. This JASM's entry into Japan will greatly contribute to the development of not only TSMC's business but also the Japanese semiconductor industry. As a Japanese company, Hitachi High-Tech will further strengthen its cooperative relationship with TSMC in the etching, measurement and analysis fields, and contribute to the development of JASM and the Japanese semiconductor industry.

- Takashi Iizumi, President and Chief Executive Officer, Hitachi High-Tech Corporation

KOKUSAI ELECTRIC Group

I would like to express my heartfelt congratulations on the opening of JASM. The KOKUSAI ELECTRIC Group is confident that JASM will bring new possibilities to our industry, and we are proud to be able to take the next step in Japan's semiconductor manufacturing industry together. We, as a specialty manufacturer of semiconductor manufacturing equipment, will continue to refine our world-class deposition technologies, work to improve productivity and quality for our equipment and service, and contribute to the sustainable development of JASM. I really wish JASM every success and success in its opening and future.

- Fumiyuki Kanai, President and Chief Executive Officer, KOKUSAI ELECTRIC Group

Lasertec

Lasertec is deeply honored to participate in the grand opening of TSMC's Kumamoto Factory. This collaboration not only acknowledges Lasertec's technical expertise and products but also signifies a crucial step forward in advancing the industry. We eagerly anticipate contributing our knowledge and support to TSMC's Kumamoto Factory during this significant moment, jointly embracing a new milestone in semiconductor manufacturing.

- Tetsuya Sendoda, Vice President, Lasertec

Rigaku Corporation

Very much honored to take this opportunity to congratulate this JASM opening event. I am sure all qualified suppliers including Rigaku Corporation could recognize today the step as for looking at all TSMC and our prosperous future and TSMC's strategy for sustainable growth in global by borderless strategy, including to utilize this time of JASM start up in Kumamoto. We, Rigaku wish to contribute further to TSMC's continuous growth worldwide.

- Jiro Kitaura, Senior VP & Deputy General Manager, Semiconductor Metrology Division,
Rigaku Corporation

SCREEN Semiconductor Solutions

SCREEN sincerely congratulates on the establishment of "JASM" in Japan. JASM will be a very strategic company for Japan semiconductor industry and Kumamoto, and we believe that JASM will contribute greatly to the development of the semiconductor industry in Japan. SCREEN will continue to maintain a good partnership with JASM and will make further efforts to contribute to the development. We wish the further development and prosperity of JASM in the future.

- Masato Goto, Representative Director, President of SCREEN Semiconductor Solutions



Shibaura Mechatronics

Shibaura Mechatronics is deeply honored to participate in this awaited ceremony today. We will maintain closer and stronger partnership with TSMC, and continue our utmost effort so as to support and contribute to JASM's production activities and its development as TSMC's first fab in Japan.

- Keigo Imamura, President and CEO of Shibaura

Sumitomo Heavy Industry

Congratulations to JASM and TSMC! TSMC got an incredible success in JASM expansion. TSMC, as a global semiconductor pioneer, extends semiconductor manufacturing footprint to Japan to meet customers' requirements and create differentiated values. SMIT is honored to participate this milestone, and we expect closely collaboration with JASM to lead JAPAN semiconductor industry to next generation.

- Mitsukuni Tsukihara, President, Sumitomo Heavy Industry

Tokyo Electron Ltd.

TEL (Tokyo Electron) is honored to participate in today's JASM (Japan Advanced Semiconductor Manufacturing) opening ceremony. I am very excited to see the TSMC (Taiwan Semiconductor Manufacturing Company) fab here at Kumamoto, Japan. We understand that various industries including automobile, electronics and computing have high expectation for JASM and we look forward to contributing to the industries through the business activities here in Kumamoto. As partners, TSMC and TEL have collaborated for decades and achieved multiple successes. I ensure that TEL will continue to provide the best products and the best technical service to help JASM become one of the most successful fabs in the world.

- Tony Kawai, President & CEO, Tokyo Electron Ltd.

Tokyo Electron Kyushu Ltd.

I would like to extend my heartfelt congratulations on the opening of JASM. As a development and manufacturing base for coater/developer and surface preparation systems in the Tokyo Electron Group, we have a good partnership with TSMC and are also involved in the launch of the JASM production line. We are doing our best, and will continue to value our relationship of trust with TSMC/JASM as well as provide the best products and technical services. We also hope to cooperate as a good partner in the local community. Thank you for your continued support.

- Shinichi Hayashi, President, Representative Director, Tokyo Electron Kyushu Ltd.



Partners

Advantest

Advantest is very excited and honored to participate in a breakthrough of Japanese Semiconductor Industry delivered by JASM. We congratulate JASM on its first facility in Kumamoto and we look forward to contributing to the leading-edge semiconductor manufacturing technology.

- Yoshiaki Yoshida, President & Group CEO, Advantest Corporation

ARM

We are excited to witness the opening of JASM's new state-of-the-art fab in Kumamoto, which is also a significant event for Japan's semiconductor industry in there is an increasing demand for more compute in the AI era. TSMC and Arm have a longstanding collaboration through the Open Innovation Platform initiative, and looking ahead, our partnership with JASM will enrich the value we bring to the Arm ecosystem both locally and worldwide.

- Takayuki Yokoyama, President, Arm K.K.

Cadence Design Systems, Inc.

Cadence and TSMC have a long history of closely collaborating to deliver transformative innovations and drive the semiconductor industry forward. We congratulate TSMC on the opening of JASM (TSMC Kumamoto Plant) and look forward to enabling our customers to successfully capture new opportunities by providing innovative design solutions that accelerate the development of future technologies. Providing high-quality products and services to both the Japanese and global markets stimulates growth and innovation in the semiconductor industry as a whole, deepens our relationship with the local community and contributes to the sustainable development of the technology revolution.

- Toshifumi Kaneko, President of Cadence Design Systems, Japan and Corporate Vice President of Cadence Design Systems, Inc.

IBIDEN CO., LTD.

IBIDEN congratulates TSMC on the opening of JASM as this exciting milestone of semiconductor manufacturing facility in Japan, which is absolutely essential in your globalization strategy. This would definitely accelerate semiconductor industry in Japan. Developing high-functional semiconductor is necessary to achieve sustainable and digital society in the world. As a member of OIP 3DFabric Alliance led by TSMC, IBIDEN will contribute in the cutting-edge IC packaging substrate development.

- Koji Kawashima, IBIDEN CO., LTD. Director & Senior Executive Officer, President of Electronics Operation



Synopsys Japan

As a long-standing partner of TSMC and its Open Innovation Platform (OIP) ecosystem, Synopsys shares the common goal of helping customers achieve the best quality of results and accelerate time to market with certified, AI-driven EDA flows and silicon-proven IP for TSMC's processes and 3DFabric packaging technologies. TSMC's investment in the Japan Advanced Semiconductor Manufacturing (JASM) fab is a pivotal milestone in strengthening the global semiconductor ecosystem by expanding advanced and specialty node manufacturing capabilities to address the need for a steady supply of chips in Japan and worldwide.

- Tomoyuki Kawai, Vice President of Sales, Synopsys Japan

TOPPAN Inc.

We are very pleased to be able to attend the opening ceremony of JASM, which is truly a leader for the semiconductor industry in Japan. TOPPAN has participated in TSMC's OIP 3DFabric Alliance since October last year, and we are now proactively advancing the development of open tools for FC-BGA substrate design, empowered by the collaboration with TSMC for 3D packaging. Going forward, we are very excited to have the chance to work together and contribute to JASM and TSMC's cutting-edge semiconductor manufacturing technology by leveraging TOPPAN's next-generation package development, photomask supply, and design capabilities.

- Masanori Saito, President & Representative Director, TOPPAN Inc.

Community

Kyushu Kumamoto International Airport Co., Ltd.

We sincerely congratulate the opening of JASM. TSMC's expansion into Kumamoto, boasting the world's top scale and technology in semiconductor manufacturing, is a significant opportunity for Aso Kumamoto Airport, which has opened a new passenger terminal building integrating international and domestic flights. Already, with 12 round trips per week on the Taipei route, we are delighted to see your staff, families, and tourists arriving in Kumamoto with smiles. The number of people traveling from Kumamoto to Taiwan is also increasing, and with your full-scale operation, there is no doubt that the exchange of people, goods, and cultures between the two regions will further flourish. Our company aims to be the "Kyushu Central Gateway open to the world and the region" and we will do our utmost to contribute to the development of your company and Kumamoto.

- Hideaki Yamakawa, President & CEO, Kyushu Kumamoto International Airport Co., Ltd.



Kumamoto Federation of Chamber of Commerce and Industry

On behalf of the 49 commercial and industrial associations in Kumamoto Prefecture, I would like to extend my heartfelt congratulations on this occasion as we celebrate the opening ceremony of the JASM Kumamoto fab. The opening of the Kumamoto Fab not only benefits Kumamoto Prefecture but also holds significant promise for Kyushu and indeed Japan as a whole, contributing to economic recovery from the COVID-19 pandemic and ensuring economic security in the future. The Federation of Chamber of Commerce and Industry will take this opening ceremony as an opportunity to further promote human exchange and trade between small and medium-sized businesses in the prefecture and Taiwanese companies. Kumamoto Prefecture is a region rich in nature, thriving agriculture, forestry, and fisheries industry, as well as tourism resources represented by Aso. We look forward to Kumamoto Prefecture becoming not only a major hub for the semiconductor industry but also a desirable region to live in with a good balance of agriculture, forestry, fisheries, and tourism. In closing, I would like to offer my best wishes for the continued development of JASM and the continued prosperity of all those involved.

- Ryu Aiichiro, Chairman, Kumamoto Federation of Chamber of Commerce and Industry

Kumamoto Prefecture Industrial Federation

We sincerely appreciate and congratulate the completion of your fab in Kumamoto, the Silicon Island of Kyushu, by leading global company TSMC and representative Japanese enterprises. Kumamoto Prefecture Industrial Federation is an organization consisting of manufacturing companies, education, administration, and financial institutions. We have maintained long-standing friendship and business exchange with Taiwanese companies. Therefore, we are very pleased with your company's expansion and firmly believe in its significant positive impact on the region. Since the announcement of the fab's plans, there has been a sharp increase in corporate investment in Kumamoto from across the country, with 23 companies joining our federation. We look forward to welcoming more Taiwanese companies, including yours, in the future. Furthermore, your products will be an indispensable commodity for the new society, bringing about advancements in various fields such as automotive, communication, and information technology. We earnestly hope that your company will continue to contribute to the creation of a prosperous and secure society for many years to come.

- Toshihiko Tanaka, Chairman of the Board of Directors, Kumamoto Prefecture Industrial Federation



Kyushu University

The opening of JASM symbolizes the recent revitalization of the semiconductor industry in Kyushu, and is expected to be a catalyst for a leap in the semiconductor industry through collaboration between Kyushu and Taiwan. Kyushu University has been actively pursuing cutting-edge research related to semiconductor and industry-academia collaboration. Last year, it signed a tripartite MOU with ITRI and National Yang Ming Chiao Tung University, deepening ties and exchanges with Taiwan. In addition to semiconductors, the university is nurturing value-creation type semiconductor specialists who deeply understand social needs and lead societal transformation using semiconductors. Furthermore, by utilizing the framework of the Kyushu Semiconductor Human Resource Development Consortium and enhancing education with instructors from the industry starting from the new fiscal year, we are strongly promoting the development of human resources to lead the realization of a new “Silicon Island Kyushu”.

- Tatsuro Ishibashi, President, Kyushu University

Kumamoto Prefectural Federation of Small Business Associations

Today, I am delighted to celebrate the opening ceremony of JASM’s new building, which will serve as the foundation for the company's development in Japan. Your company's entry into Kumamoto is not only a catalyst for further growth and development of Kumamoto's economy, but also promises a bright future for Japan. We, the Kumamoto Prefectural Federation of Small Business Associations, also saw your company's expansion into Kumamoto as an opportunity and have signed a "Memorandum of Understanding (MOU)" with "The Third Wednesday Club (San San Fe) and Taiwan-Japan Business Exchange Association". In conjunction with this, our association is holding seminars and other events to promote understanding of Taiwanese culture and business. Pursuing your company's expansion into Kumamoto as an opportunity, we strongly hope to strengthen ties between Taiwan and Japan, advance cultural and economic exchanges with Taiwan, and foster economic exchanges and business collaborations with Taiwanese companies, so that Taiwan and Japan can develop together. Finally, I wish your company continued growth and success in the future.

- Ichiro Sakurai, Chairman, Kumamoto Prefectural Federation of Small Business Associations

Kumamoto University

Our university considers the development of semiconductor human resources to be our responsibility, and in April of this year, we will establish a new department-equivalent organization, the “Interfaculty Initiative for Information Fusion” and will establish a “Semiconductor Device Engineering Program” in the Faculty of Engineering. We will work to develop programs for students in data science and semiconductor manufacturing processes, as well as human resources with advanced expertise related to semiconductor engineering and device manufacturing processes. As the semiconductor industry accumulates in Kumamoto Prefecture, collaboration and cooperation between JASM and our university will become extremely important. I sincerely wish JASM continued development.

- Hisao Ogawa, President of Kumamoto University



Kumamoto Association of Corporate Executives

We would like to extend our congratulations on the auspicious occasion of your company's grand opening in Kikuyo Town, Kumamoto Prefecture. The entire Kumamoto Association of Corporate Executives warmly welcomes your company's expansion into the Kumamoto area. Your company's entry into Kumamoto is expected to significantly contribute to local employment creation and promotion of industry, as well as to economic development through enhanced cooperation and exchange between Taiwan and Kumamoto, Kyushu, and Japan as a whole. The Kumamoto Association of Corporate Executives, both as an organization and individual member companies, are committed to working together to build a bridge between Taiwan and Japan and contribute to the development and revitalization of the local economy. In conclusion, I sincerely further prosperity for your company and the health and well-being of all your staff and officers.

- Yoshihisa Kasahara, Representative Director, Kumamoto Association of Corporate Executives

National Institute of Technology (KOSEN)

We want to express our sincere congratulations on the opening of TSMC/JASM's huge semiconductor production base in Kumamoto, Kyushu. Kyushu has a history as a global semiconductor production base, and establishing a cutting-edge semiconductor industry will significantly contribute to our country's and the world's development. Kumamoto is a city of water and a capital of learning (Gakuto). This semiconductor production base is expected to serve as a model for an industry that harmonizes with rich nature and cutting-edge technology, and as a center for gathering highly skilled human resources who will lead and develop cutting-edge science and technology. KOSEN, a unique higher education institution originating from Japan that continues to take on the challenge of creating a new society, will work with everyone as an organization to contribute to the development of human resources who will play a part in this endeavor.

- TANIGUCHI Isao, President of National Institute of Technology (KOSEN)

Federation of Kumamoto Chamber of Commerce and Industry

We would like to express my sincere congratulations on the opening of JASM today. We hope that JASM, along with various companies from Japan and Taiwan, will collaborate here in Kumamoto to create wonderful technologies for the future. We also hope that all those who work for JASM and their families will enjoy the rich nature and culture of Kumamoto and live happily. To realize these goals, the Kumamoto Chamber of Commerce and Industry will provide as much support as possible. Finally, we express our utmost respect for the significant role that TSMC has played over the years, and sincerely hope JASM will continue to develop as a company that leads the future of humanity.

- Akito Kuga, Chairman of Federation of Kumamoto Chamber of Commerce and Industry



About TSMC

TSMC pioneered the pure-play foundry business model when it was founded in 1987 and has been the world's leading dedicated semiconductor foundry ever since. The Company supports a thriving ecosystem of global customers and partners with the industry's leading process technologies and portfolio of design enablement solutions to unleash innovation for the global semiconductor industry. With global operations spanning Asia, Europe, and North America, TSMC serves as a committed corporate citizen around the world.

TSMC deployed 288 distinct process technologies, and manufactured 11,895 products for 528 customers in 2023 by providing broadest range of advanced, specialty and advanced packaging technology services. TSMC is the first foundry to provide 5-nanometer production capabilities, the most advanced semiconductor process technology available in the world. The Company is headquartered in Hsinchu, Taiwan. For more information please visit <https://www.tsmc.com>.

#

TSMC Spokesperson:

Wendell Huang
Senior Vice President and
CFO
Tel: 886-3-505-5901

TSMC Deputy Spokesperson:

Nina Kao
Head of Public Relations
Tel: 886-3-563-6688 ext.7125036
Mobile: 886-988-239-163
E-Mail: nina_kao@tsmc.com

Media Contact:

Kristin Chiu
Public Relations
Tel: 886-3-563-6688 ext. 7124112
Mobile: 886-975-548-260
E-Mail: kristin_chiu@tsmc.com