NEWS RELEASE

Hamamatsu Photonics will start the construction of a new factory building to meet the growing demand of the opto-semiconductor device market

February 24, 2023
Hamamatsu Photonics K. K.
Headquarters: 325-6, Sunayama-cho,
Naka-ku, Hamamatsu City, Japan
President and CEO: Tadashi Maruno

Hamamatsu Photonics will construct a new factory at its Shingai Factory site located in Shingai-cho, Minami-ku, Hamamatsu City, Japan to increase overall production capacity in the post-processing (dicing, assembly, and inspection) of opto-semiconductor devices. Mainly used for semiconductor manufacturing, testing equipment and LiDAR*-related devices, it will support the expanding sales demands.

The groundbreaking ceremony for the new factory building is scheduled to be held on March 1, 2023, and the new factory building will be completed in March, 2025.

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Hamamatsu Photonics has been supplying opto-semiconductor products for a broad range of fields including medical, industrial and automotive applications. In recent years, demand for image sensors used in semiconductor manufacturing and testing equipment has continued to grow, and since photodiodes for the automotive LiDAR market is also expected to expand, we anticipate a constant sales increase in the future.

Construction of the new factory building will expand production space for image sensors and photodiodes to meet an ever-increasing product demand. This new building will connect to the two existing factory buildings to integrate the clean rooms at the Shingai Factory into one area space. This will allow us to streamline the movement of people and materials to improve production efficiency as well as automate the manufacturing process and save labor through digital transformation.

The third Shingai factory building is designed to be highly resistant to natural disasters by integrating earthquake and flood countermeasures into its structure in conformance with our business continuity planning. Its proactive design features include eco-friendly measures such as heat-insulating structures and solar power generation systems. Construction of this new factory building will complete our major capital investments at the Shingai Factory site.

Since demand for opto-semiconductors is widely expected to see future growth, we plan to construct another factory building at our main factory site for wafer pre-processing within the next three years. Here we expect to establish a new manufacturing process for 8-inch diameter silicon wafers with a larger area than conventional 6-inch diameter waters. We aim to double the sales of our opto-semiconductor business in 10 years by expanding the post-processing capacity and further upgrading the production system through various business approaches including this investment.

Below is the schedule for the groundbreaking ceremony and an overview of the new factory building.

* LiDAR: “Light Detection And Ranging” is a remote sensing technology that measures the distance to an object by irradiating a laser beam onto it and detecting the reflected light with an optical sensor. LiDAR is the focus of much recent attention in the field of automatic vehicle driving.

Groundbreaking Ceremony

Ceremony name	Grounding Ceremony for Building No. 3 at the Shingai Factory of Hamamatsu Photonics K.K.
Date	Wednesday, March 1, 2023, 10:00 A.M.
Location	1128, Shingai-cho, Minami-ku, Hamamatsu City, Shizuoka Pref., Japan

New Factory Building Overview

Factory building name	Shingai Factory Building No.3
Construction location	1128, Shingai-cho, Minami-ku, Hamamatsu City, Shizuoka Pref., Japan
Construction schedule	Construction will start in March 2023 and will be completed in March 2025
Operation start schedule	May 2025
Building structure	Steel frame construction, 4 floors above ground
Building area	3,823 square meters, total floor space: 13,343 square meters
Facility layout	1st floor: Assembly process (cleanroom) for opto-semiconductors 2nd floor: Assembly process (cleanroom) for opto-semiconductors 3rd floor: Assembly process (cleanroom) for opto-semiconductors 4th floor: Process design office, inspection process Roof floor: Solar power plant (factory power supply needs)
Total construction cost	Approximately 7.5 billion yen
Accommodation capacity	Approximately 100 persons
Products	Image sensors, photodiodes
Production capacity	Approximately 30 billion yen annually (converted to sales figures)

Artist's rendering of Shingai Factory Building No. 3