

OXIDE

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OXIDE Corporation
Masayuki Yamamoto,
President (COO & CFO)

Full-Scale Launch of Laser Microfabrication Equipment Business

for Semiconductor Back-End Processes

—Signs Basic Agreement for Business Alliance with Taiwan's Bolite to
Co-create the Next Growth Market—

OXIDE Corporation (Headquarters: 1747-1 Maginohara, Mukawa, Hokuto, Yamanashi, Japan; President (COO & CFO): Masayuki Yamamoto) has signed a basic agreement for a business partnership with Taiwanese laser microfabrication equipment manufacturer Bolite Co., Ltd. (Headquarters: Hsinchu City, Taiwan; hereinafter "Bolite") to commercialize laser microfabrication equipment.

Leveraging its strengths in deep-ultraviolet laser technology based on single crystals and frequency conversion technologies, the Company has steadily expanded its global market share, primarily in wafer defect inspection applications for semiconductor front-end processes.

Building on the laser technology, quality, and reliability cultivated in the front-end processes, expanding the business domain into microfabrication within semiconductor back-end processes is a key pillar of the Company's future growth strategy.

This partnership represents the first step in concretely advancing this growth strategy. Through collaboration with Bolite, OXIDE Corporation aims to take a step toward a higher value-added business model by providing not only lasers but also complete systems.



1. Growing Demand for Laser Microfabrication in Semiconductor Back-End Processes

Driven by factors such as the proliferation of high-performance computing (HPC) related to generative AI, the semiconductor industry is witnessing a dramatic increase in the importance of high-density packaging and microfabrication technologies in semiconductor back-end processes. This is due to chip

miniaturization and the adoption of chiplet technology. However, conventional processing methods are increasingly difficult to apply in certain cases, such as the formation of microvias, where mechanical processing has limitations.

In this microfabrication field, non-contact laser processing technology—offering high precision and low damage—is gaining attention as a complementary or alternative method to conventional machining and etching processes. Specific applications include microvia formation, redistribution layer processing, and laser dicing, with the scope of laser microfabrication rapidly expanding.

In response to this situation, OXIDE Corporation has evolved its technology from lasers used in semiconductor wafer defect inspection to lasers used in fine processing equipment for semiconductor back-end processes, leveraging the technical expertise cultivated in the lasers business.

2. Business Alliance with Bolite and Future Developments

In semiconductor back-end processes field, Taiwan is a globally strategic hub within the supply chain, home to companies like TSMC and OSAT (Outsourced Semiconductor Assembly and Test) firms. Bolite possesses a customer network centered on local Taiwanese companies, backed by its development capabilities in lasers for semiconductors.

In addition to developing our own business initiatives, the Company places high importance on collaborating with advanced technology partners in strategic regions of the semiconductor industry. Our partnership with Bolite represents the first step in this approach. By combining the strengths of both companies, the Company will promote the commercialization of laser microfabrication equipment for semiconductor back-end processes.

Through this partnership, both companies will advance the commercialization of laser microfabrication equipment for semiconductor back-end processes, starting with the following applications:

- Microfabrication for glass substrates and SiC interposers
- Micro QR code marking for high-reliability traceability
- Processing solutions for next-generation devices, exemplified by optoelectronic integration
- High-precision processing for diamond wafer planarization and CMP substrates

This business operates in a growth sector with anticipated market expansion. Starting with our collaboration with Bolite, the company will steadily promote the development and expansion of applications and customers, as well as market formation, by advancing joint marketing in the Asian region, starting with Taiwan market, and strengthening ties with customers and supply chain partners.

Building on the technologies and achievements established in semiconductor front-end processes, the Company aims to evolve into a company capable of achieving sustainable growth by expanding its business into the new growth market of semiconductor back-end processes.

[Company Overview: Bolite]

Bolite Co., Ltd., founded in 2011 and headquartered in Hsinchu, Taiwan, is a technology company specializing in laser modules and process solutions. Its technologies are primarily applied in the semiconductor, MEMS, and advanced manufacturing sectors. Given the critical role of Taiwan's the semiconductor industry in global wafer fabrication, advanced packaging, and testing, Bolite maintains close collaboration with the industry to support customers in implementing laser process technologies and to participate in the sector's ongoing development.

Bolite operates a Process Development Laboratory at its Hsinchu headquarters, equipped with a variety of in-house developed laser systems. The facility provides customers with real-time process validation, helping to reduce risks associated with adopting new technologies and to shorten development cycles.

With a focus on practical, engineering-driven solutions, Bolite supports the advancement of semiconductor-related technologies and maintains stable, long-term cooperative relationships with customers in the field of laser processes.

For inquiries regarding this matter
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[Company Overview: OXIDE]

OXIDE Corporation was founded in 2000 as a venture company originating from the National Institute for Materials Science (NIMS). The Company is headquartered in Hokuto City, Yamanashi Prefecture, Japan, where it operates its head office and manufacturing facilities, and also maintains a business office in Hodogaya Ward, Yokohama City, Kanagawa Prefecture. Since its establishment, OXIDE Corporation has aimed to become a global niche leader in the fields of single crystals and lasers. Guided by the following management philosophy, the Company has continuously focused on businesses in which it can fully leverage its strengths in single-crystal development and optical technologies across the optical value chain. Management Philosophy: Be a global-niche-top company in Single Crystals and Lasers • Use the results of our research to benefit society, and provide key materials to the world • Provide material solutions to customers and contribute to the development of society • Develop products centered on single crystals, and continue to create future market opportunities The Company's core business consists of the development, manufacturing, and sales of single crystals, optical components, laser light sources, and optical measurement systems—technologies that are essential to the "Age of Light" in the 21st century. OXIDE operates three business domains: Frontier Tech, Semiconductor, and Healthcare. In recognition of its technological excellence and global competitiveness, OXIDE was selected as one of the Ministry of Economy, Trade and Industry's Global Niche Top 100 Companies in 2014. In February 2021, the Company received the Grand Prix at the Small Giants Award 2021, hosted by Forbes Japan. OXIDE's distinctive strengths include: a strong base of highly specialized experts and engineers in single-crystal and optical

technologies, enabling sustained growth as a research-driven technology company; and proven capabilities in acquiring optical technologies from both domestic and international companies and successfully commercializing them. These strengths form the foundation of the Company's originality and competitive advantage.