



November 29, 2024

**Taiyo Nippon Sanso to Exhibit at SEMICON Japan 2024 for the First Time in 13 Years
Demonstration Machines and Other Productivity-Enhancing Solutions for Semiconductor
Manufacturing to be Shown at Booth**

Taiyo Nippon Sanso Corporation (Headquarters: Shinagawa-ku, Tokyo; President Kenji Nagata, hereinafter “TNSC”), a Japanese industrial gas company in Nippon Sanso Holdings Group, will exhibit at SEMICON Japan 2024 to be held at Tokyo Big Sight from December 11 (Wed.) to 13 (Fri.), 2024. This is the first time in 13 years that we are exhibiting at SEMICON Japan, reflecting the recent trend of semiconductor manufacturing returning to Japan. At the booth, we will highlight our history of responding to various changes in semiconductor industry trends and social issues, as well as our specific initiatives for the semiconductor industry.



Exhibition booth (image)

Semiconductor-related exhibits

At the exhibition booth, we will present the Intelligent Gas Supplying System (IGSS) as a solution to improve productivity in semiconductor manufacturing plants. The IGSS is a solution that leverages our gas handling expertise and digital technology to address challenges such as heavy labor, hazardous work, and labor shortages at gas supply sites. The Cdrive, part of this system, is a device for the transport of specialty gas cylinders and general cylinders weighing up to 100 kg to the designated locations and for loading and unloading them. A demo unit of Cdrive will be exhibited at the booth. In addition, we will show the status of domestic production of rare gases, for which we have expanded production facilities. We will also display a cutaway model of

a 72 L cylinder of high-purity acetylene, which has recently been in the spotlight in semiconductor manufacturing. This is the first such cylinder to be manufactured in Japan.



A demonstration unit of Cdrive, part of the IGSS system, will be exhibited (conceptual image of IGSS).



Newly-installed rare gas production facility

Carbon neutrality-related exhibits

In the area of carbon neutrality, we will introduce our newly-developed CO₂ recovery system, which expands the applicable range of carbon dioxide (CO₂) concentrations in raw materials and

enables recovery from a wide range of CO₂ emission sources. Furthermore, Blisters Burner H₂ is an waste gas abatement system that uses hydrogen gas (H₂) as fuel and emits no fuel-derived greenhouse gases. High-efficiency H₂ burners reduce energy consumption (heat input) by 30%-50% compared to conventional (fossil fuel) burners.

Exhibit outline

Event name: SEMICON Japan 2024

Location: Tokyo Big Sight (Tokyo International Exhibition Center)

Time/date: 10:00 - 17:00 on December 11 (Wed.), 12 (Thu.), and 13 (Fri.), 2024

Admission: Free. Please register [here](#) and print out the registration form for the visit and seminars.

Our booth: Booth No. 6437 in Hall 6

* All visitors to our booth are welcome to participate in a lottery. We have prepared great prizes such as Thermos Tumblers, and there will be no losers in the lottery, so be sure to stop by.

About SEMICON Japan

SEMICON Japan is an event that showcases semiconductors, which support the DX era and are at the core of advanced technology; manufacturing technologies, equipment, and materials in the semiconductor industry; and various applications that incorporate semiconductors, such as automobiles and IoT devices.

【Company Overview】

Taiyo Nippon Sanso Corporation

Business description: Manufacture and sale of various industrial gases such as oxygen, nitrogen, argon, LP gas, gas for medical uses, and specialty gases, manufacture and sale of welding equipment and materials, gas-related devices, and, air separation equipment, assembly, processing, inspection of electrical components, and equipment maintenance

Established: October 30, 1910

Incorporated: February 4, 2020

Capital: 1.5 billion yen

Shareholder: Nippon Sanso Holdings Corporation (Investment ratio: 100%)

Revenue: 414.3 billion yen*

*Note: This figure shows the revenue of Japan for Nippon Sanso Holdings Corporation in FYE2024

Taiyo Nippon Sanso Corporation

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