Press release

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Bosch promotes initiatives for industry-academia collaboration

Bosch Rexroth provides hydraulic test equipment to Yokohama National University - opening a "Fluid Power Training Laboratory"

~Similar program is carried out at Hosei University~

- Providing hydraulic test equipment and control systems free of charge for practical learning about fluid power.
- Bosch Rexroth AG CEO, Dr. Steffen Haack, to provide lectures on hydraulic technology.
- Contributing to the development of the human resource who supports Japan's manufacturing industry.

Yokohama - Bosch Corporation, the Japanese subsidiary of Robert Bosch GmbH, a leading global supplier of technology and services, announced that Bosch Rexroth, which leads the Industrial Technology business sector within the Bosch group, has provided fluid power (hydraulics) training kits to Yokohama National University free of charge. Following this provision, a "Fluid Power Training Laboratory" has been set up at the university based on these kits.

Recently, while hydraulic equipment plays a key role to support a wide range of industries, learning opportunities for hydraulic engineering at higher education have been declining. Against this situation, Bosch Rexroth aims to contribute to the development of human resources who will support Japan's manufacturing industry by promoting industry-academia collaboration with universities.

The fluid power training kit includes key equipment and control systems for the fluid power field, such as motors, pumps, control valves, cylinders and more. Students studying in the Mechanical Engineering Program class at the Graduate School of Engineering Science at Yokohama National University will be able to use the latest training kit at the Fluid Power Training Laboratory to build their own fluid power system*. The Laboratory will enable hands-on training where students can experience the objectives and challenges of fluid power systems through measurement and analysis of the equipment behavior.

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Furthermore, Bosch Rexroth will deliver a total of four lectures on the latest hydraulics technologies this term, which will include a special lecture by Dr. Steffan Haack, CEO of Bosch Rexroth AG in Germany, as well as lectures by Bosch Rexroth associates. Through classroom instruction and hands-on lab training, students will have opportunities to learn about the latest technology trends in hydraulics, using the latest equipment.

Bosch Rexroth will also implement a similar program at Hosei University. The Fluid Power Training Laboratory will be opened for the Hosei University Graduate School of Engineering and Design, with lectures to be held four times in the second half of 2025. Bosch will continue to collaborate with educational institutions with the aim of contributing to the development of human resources to support Japan's manufacturing industry.

* A drive method for operating and stopping machinery and equipment using the fluid power of substances such as oil, water, and air.

Overview of the Industry-Academia Collaboration Program

Yokohama National University

Graduate School of Engineering Science
Department of Mechanical Engineering ,Material Science, and Ocean Engineering

- Fluid Power Training Laboratory: Opened in November 2025
- Lecture schedule: November 12 (classroom), December 3 and 10 (Hands-on), December 17 (Special lecture by CEO Dr. Haack)

Hosei University

Graduate School of Engineering and Design
Department of Engineering and Design, Faculty of Engineering and Design
Research Center for Micro-Nano Technology

- Fluid Power Training Laboratory: Opened in November 2025
- Lecture schedule: October 10 and 24 (classroom), November 7 (Hands-on), December 16 (Special lecture by CEO Dr. Haack)

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Bosch in Japan is currently represented in the country by Bosch Corporation, Bosch Rexroth Corporation and other affiliates. Bosch Corporation is responsible for the development, manufacturing, sales and services of automotive original equipment, automotive aftermarket products and power tools. Bosch Engineering K.K. provides engineering services, such as development and application for automotive systems. ETAS K.K. develops and provides engineering of development support tools of electrical control units. Bosch Rexroth Corporation develops and manufactures hydraulics, FA module components and other systems which contribute to industrial technologies. In 2024, Bosch Japan achieved sales to third parties of some 428 billion yen and employed approximately 6,300 associates.

Additional information is available online at
http://www.bosch.co.jp Bosch Japan Website (Japanese)
https://twitter.com/Boschjapan Bosch Japan X (Japanese)
https://www.facebook.com/bosch.co.jp Bosch Japan Facebook (Japanese and English)
https://www.youtube.com/boschjp Bosch Japan YouTube (Japanese)
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The Bosch Group is a leading global supplier of technology and services. It employs roughly 418,000 associates worldwide (as of December 31, 2024). The company generated sales of 90.3 billion euros in 2024. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. With its business activities, the company aims to use technology to help shape universal trends such as automation, electrification, digitalization, connectivity, and an orientation to sustainability. In this context, Bosch's broad diversification across regions and industries strengthens its innovativeness and robustness. Bosch uses its proven expertise in sensor technology, software, and services to offer customers cross-domain solutions from a single source. It also applies its expertise in connectivity and artificial intelligence in order to develop and manufacture user-friendly, sustainable products. With technology that is "Invented for life," Bosch wants to help improve quality of life and conserve natural resources. The Bosch Group comprises Robert Bosch GmbH and its roughly 490 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. Bosch's innovative strength is key to the company's further development. At 136 locations across the globe, Bosch employs some 87,000 associates in research and development.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861–1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a limited liability company with a charitable purpose. The remaining shares are held by Robert Bosch GmbH and by a company owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG. It is entrusted with the task of safeguarding the company's long-term existence and in particular its financial independence – in line with the mission handed down in the will of the company's founder, Robert Bosch.

Additional information is available online at www.bosch.com, www.bosch-press.com.

Note: one Euro = 163.8354 JPY