

# Green Technology System Division



**Taikisha helps to improve the environmental value of its customers by providing solutions mainly in the Building HVAC and the Industrial HVAC.**

The Green Technology System Division is comprised of the Building HVAC System business sector, in which Taikisha designs and constructs air-conditioning systems for buildings, and the Industrial HVAC System business sector, in which Taikisha designs and constructs air-conditioning systems for factories both in Japan and overseas.

In the Building HVAC System business sector, Taikisha designs and constructs air-conditioning systems for facilities that are used by many people, such as office buildings, schools, hospitals, hotels, museums, and airport terminals. It does so by conducting new construction and renovation work on facilities with the aim of providing people- and eco-friendly, comfortable spaces.

The market environment has recently taken a favorable turn due to greater construction demand against the backdrop of an increase in redevelopment projects mainly in urban areas and in the run-up to the

2020 Tokyo Olympic and Paralympic Games.

In the Industrial HVAC System business sector, meanwhile, Taikisha designs and constructs optimal air-conditioning systems for cleanrooms and other manufacturing facilities for factories and R&D facilities in the electronic parts, pharmaceutical products, biotechnology, and other fields where a very clean environment is required in the manufacturing process.

Highly sophisticated parts, such as multi-layer ceramic capacitors, high-frequency parts, imaging sensors, and precision miniature motors, are used in large numbers, in particular, in smartphones and car electronics, which are spreading rapidly worldwide. Taikisha's industrial HVAC technologies control the manufacturing environment of such electronic parts. Taikisha also focuses on providing environment protection systems, such as exhaust-gas treatment devices and antipollution systems.

## PICK UP

### School buildings of Nihon University's new colleges completed

In March 2016, the school buildings of Nihon University's new colleges were completed. Taikisha installed air-conditioning systems and sanitation facilities for these buildings. The new campus, located in the Sangen-jaya area near Shibuya, is used to house the College of Risk Management and College of Sports Sciences, launched in April. The school buildings, equipped with the latest gymnastics facilities and disaster prevention equipment, are built on the concept of being "open to the local community," ensuring "co-existence," and being "people-friendly" and are expected to be a place for sending new learning.



# Paint Finishing System Division



## Taikisha pursues the world's cutting-edge, energy-saving and eco-friendly painting technologies.

The Paint Finishing System Division has expanded based on Taikisha's core technologies cultivated in the HVAC business, such as exhaust treatment and air flow control. Taikisha designs and constructs automobile paint finishing plants that realize both high painting quality and energy-saving and advanced pollution control functions.

Taikisha designs and constructs large paint finishing plants of automakers not only in Japan but also globally, including in the U.S., Europe, South Korea, China, and India, and currently boasts the top-level of market share in the world.

Taikisha has expanded its range of products from air-conditioning systems for automobile paint finishing plants to robot painting systems, conveyor systems for auto body and paint circulation systems

necessary in automobile plants, as well as to the entire automobile paint finishing plants. Taikisha now provides total plant engineering services from design to construction of the whole plants.

Taikisha also contributes to the energy management of customers around the world. Taikisha is doing this by reducing CO<sub>2</sub> emissions through downsizing paint booths with robot layouts in mind, and by promptly complying with laws, ordinances and international standards of countries, which have recently becoming increasingly strict.

Taikisha will continue to expand its business domains, promote cost reduction and enhance its engineering capabilities through technology development to further strengthen its competitiveness.

### PICK UP

#### Production capacity enhancement work completed at the Zhongmu Plant of Zhengzhou Nissan Automobile

In January 2016, Taikisha completed production capacity enhancement work at the Zhongmu Plant of Zhengzhou Nissan Automobile Co., Ltd., a joint venture between Dongfeng Motor Co., Ltd. and Nissan Motor Corporation. The newly constructed facilities have various environment-friendly features, such as LED lighting and use of exhaust heat from ovens (paint baking process) to create hot water in other production processes.

