# Semiconductor Devices

**Cellular Phone** 

Automobile

**Digital Consumer** 

**Amusement** 

**Industrial Equipment** 

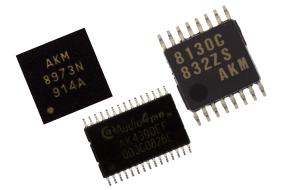
Information Equipment

# Pioneering

Pioneering future markets with advanced semiconductor devices

### Providing the market with unique semiconductor devices

Hakuto handles semiconductor devices developed for specific fields and products, and many devices have been adopted for top-selling, advanced products. We are also proud of our sales structure backed up by field-application engineers trained with skills to handle high-tech products.



**Asahi Kasei Microdevices Corporation** DSP/ADC/DAC for Audio Clock Devices, Electronic Compass



**Yamaha Corporation**Audio LSI, Video Controller
Graphic LSI



**EPSON TOYOCOM Corporation**Gyro Sensor, Resonator, Oscillator



Marvell Semiconductor, Inc. Micro Processor



**STMicroelectronics** 8bit 32bitMCUs, Automotive ICs, Memory, Discrete

## **Electronic Components**

Connector

**Electronic Components** 

**EMI** solutions

Thermal solutions

**Optical Components** 

PV-module, PV-system

Display related parts

**RFID** system

Video Conferencing System

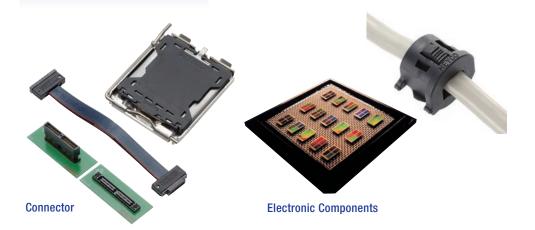
# Enhancing

Enhancing product value by promoting sales and developing new products

### Supplying various types of electronic components

A plus alpha proposal that can only be made by a specialized trading company that knows all about the functions of electronic components. That is the essence of Hakuto.

We will select the most suitable products according to the application with our rich lineup of, connectors, various electrical parts, electrical materials, optical components, solar cell related products, display-related parts, RFID systems, and web conferencing systems.





**EMI** solutions







**RFID** system



**Video Conferencing System** 

## Electronic and Electric Equipment

Semiconductor Equipment

**Compound Semiconductor Equipment** 

Nanotechnology Equipment

Vacuum System & Components

Laser Components & System

**Measurement System** 

Scientific Equipment / Physics & Water Equipment

**Equipment for PCB** 

Equipment for IC Package

# Mastering

A professional team mastering next-generation electronics technologies

### Aiming to provide the market with cutting-edge products

Hakuto handles electronic and electric equipment that will lead the next generation. Customers include many leading companies and research institutes in the field of electronics. They have given high marks to the technical services provided by our technical staff, who have refined their skills at Isehara Technical Center and at suppliers.



Semicat, Inc. PVD System



Pfeiffer Vaccum Technology AG Turbo-Molecular Pump, Dry Pump Helium Leak Detector



National Electrostatics Corp.
Radio Carbon Dating System (Pelletron Accelerator)



NOVANTA Inc.

Galvano Scanner for Laser cutting and welding

High-end Galvano Scanner with high accuracy and high speed which Hakuto has experience to handle more than 20 years.

Hakuto also proposes and sells Laser cutting and welding systems which meet customer needs with Fiber Lasers and optical components.



NS Corporation IBE System

#### **Hakuto Co., Ltd.** Stepper for Package Substrate



#### **Own-brand Products**

Hakuto develops and provides equipment for printed-circuit board manufacturing process, especially Photolithography Process from Dry Film Laminating to Exposing under its own-brand. Hakuto has earned excellent reputations from customers all over the world.

### Industrial Chemicals

Petroleum Relating & Petrochemical Industry

Pulp & Paper Industry

**Automotive Industry** 

Coematics

Industrial Water Treatment Chemicals

# Creating

Creating original industrial products that contribute to the development of industries

### Unique industrial chemicals optimize production processes

Hakuto draws on its unique development capabilities to manufacture eco-friendly industrial chemicals that also improve productivity. Products range from specialty chemicals mainly for use in petroleum and petrochemicals, paper and pulp, and automobile industries to cosmetic products. Based on our credentials, we also distribute chemical products to Japanese companies on behalf of overseas manufacturers.



**Petroleum Relating & Petrochemical Industry** 

- ·Corrosion inhibitors ·Antifoulants
- •Demulsifiers •FCC catalyst additives
- ·Polymerization inhibitors



**Pulp & Paper Industry** 

- ·Brown-Stock Washing Aids ·Defoamers
- •Deposit Control Aids •Felt Conditioner



**Automotive Industry** 

- ·Over-Sprayed Detackifier
- ·Paint Sludge Removal System



#### Cosmetics

- •OEM sales
- ·Own brand



#### **Industrial Water Treatment Chemicals**

- ·Industrial Open Cooling Water Treatment Chemicals
- Water & Waste Water Treatment Chemicals
- ·Boiler Chemicals

We are developing the environmental and effective Pure Green series and other eco-friendly products.



#### Quality and environmental efforts

All departments of the Industrial Chemicals have received ISO9001 certification for standards in quality management system, and are working toward improving customer satisfaction.

Our efforts to receive ISO14001 certification for environmental management systems include the development of environment-conscious products.

#### **Overseas**



# Networking

The innovative products developed and supplied to us from various companies in the world are delivered to our customers through the borderless network which connects each city in the market

# Global network supports our customers to expand their business abroad

Hakuto's own brand products and the products we found elsewhere in the world by fully utilizing our globally extended network are sold in Japan and exported to the East and South-East Asian countries which have been rapidly growing in their economy. Hakuto will continuously support the oversea businesses of our customers in multiple aspects by actively establishing our oversea affiliated firms in Asia, offering the latest market and product information, expanding our sales network and offering efficient after-services for our products we delivered to customers.

