Vacuum technology realized in everyday life

“Really? Even these?”
You might be surprised to know how many different products use vacuum technology. It’s used for everyday items like food, razors, and smartphones, as well as in advanced fields like biotechnology and aerospace. ULVAC continues to seek out the potential of vacuum technology and discover many innovations. Vacuum technology is the key to the future development of science and industry. We continue to challenge ourselves to generate new value and enrich our life.
Building a flourishing future by creating innovative solutions to deliver industrial and scientific advancement

ULVAC was founded in 1952 when vacuum technology was not yet widely used in Japan. It was a venture company started by young engineers who wanted to contribute to the development of science and industry through vacuum technology.

Our expertise has grown to possess many aspects of vacuum technology, including vacuum equipments, components, advanced materials, and analytical equipments.

At ULVAC, we pursue leadership in vacuum technology to realize innovations for our customers.

ULVAC Group aims to contribute to the development of industries and science by comprehensively utilizing its vacuum and peripheral technologies through the mutual cooperation and collaboration of the Group companies.

 Origin of Company Name

‘ULVAC’ is a combination of ‘UL’ from ‘ultimate’ and ‘VAC’ from ‘vacuum’, signifying that we pursue the ‘Ultimate in Vacuum Technology’. Seeking to achieve a dramatic advance, we will further develop the ULVAC brand by pursuing the development of new technologies that complement vacuum technologies.

1952 | JAPAN VACUUM ENGINEERING CO., LTD. was established
   | Purchased the first order of vacuum evaporation equipment for coating automatic planar form (SHINKO INDUSTRIES (former HAKKO SHIKA))
1955 | Established the Omiya Plant and started manufacturing of equipment domestically
1959 | Established the Yokohama Plant
1960 | Developed large vacuum equipment for heavy industries such as vacuum melting furnaces and vacuum distillation equipment
1964 | Established the ULVAC’s first overseas local corporation in Hong Kong
1968 | The Chigasaki Head Office / Plant was completed
1972 | Established the Institute for Super Materials at ULVAC’s first full-scale research institute
1975 | Received an order for “SYSTEM 731”, the world’s first computer controlled, fully automatic vacuum evaporation equipment for IBM
1986 | The “MVE Series,” the world’s first multi-chamber sputtering system, has been acclaimed by many semiconductor manufacturers
1988 | The “SHD Series,” a sputtering system for manufacturing hard disc, became a hit globally
1990 | Established the Fuji Suzurno Plant as a dedicated plant for semiconductor production equipment
1992 | Launched the dedicated LCD production “SHD Series” deposition system, which became a cornerstone of the FPD business
1995 | Established a production base in China and a sales / service base in South Korea
2001 | Established the Institute for Semiconductor and Electronics Technologies
   | The company name was changed to ULVAC, Inc.
2004 | New buildings of Chigasaki Head Office/Plant were completed
2006 | Established a production subsidiary for large LED production equipment in Taiwan
2007 | Established the Chiba Tomisato Plant for the development and manufacturing of materials
   | Received an order for an Integrated production line for thin-film solar cells (TFSCs)
2008 | Established the Institute for Super Materials in South Korea
2010 | The company celebrated the 60th anniversary of its founding
2015 | Established the Future Technology Research Laboratory
2016 | ULVAC (SUZUHO) CO., LTD. began manufacturing production equipment for large displays

HISTORY

Since our founding more than 60 years ago, we aggressively challenged creating new technologies in response to changes in the industrial structure, and contributed to the society growth.

We have actively promoted globalization as markets changed, and now our ratio of overseas sales has reached approximately 70%.

The passion to realize growth to all industry and science through vacuum technology has been passed on as our DNA.

BASIC CORPORATE PHILOSOPHY

ULVAC, Inc. CORPORATE PROFILE 2019-2020

ULVAC, Inc. CORPORATE PROFILE 2019-2020
ULVAC is recognized as the global leader holding top share in sputtering systems for liquid crystal display application. We provide state-of-the-art vacuum technology for organic EL mass production equipment and develop next generation display technology. We provide solutions from R&D to scaling and support for our customers in the FPD such as TVs, smartphones, PCs, and tablets. In clean energy, we have developed and provided equipment for many types of solar cells, such as crystalline silicon and compound solar cells, for more than 40 years.

FPD™ and PV™ production equipment

Technology will continue to evolve at an ever faster pace, including IoT™ which enables everything to connect to the Internet; big data, which analyzes and generates new value in huge amounts of data; and AI, autonomous driving, and EV, which have been made possible thanks to advanced high-speed information processing technology. A new socio-industrial structure, with new auto industries, is just around the corner. We globally engage with customers in fields, such as non-volatile memory, 3D-IC, telecom devices, sensors, and opto devices, to develop innovative vacuum technology and help customers realize development and/or scaling production.

* IoT: Internet of Things

Semitendor and Electronic device production equipment

Components

Our life is surrounded by products made using vacuum technology. For example, smartphones, LED lights, and any type of electronics. ULVAC develops and provides components necessary for various vacuum technologies, such as vacuum pumps, vacuum gauges that measure vacuum (pressure), process gas monitors that identify gas type, helium leak detectors that identify leaks location and amount, power supplies, vacuum valves, and other parts for vacuum equipments.

Industrial equipment

We have been in this line of business since ULVAC’s founding. We have contributed to the development of many industries, such as the steel and metals during heavy industry growth period, automobile and home appliance industry. Today sectors such as rare earth magnets used in EV drive motors, vacuum melting furnaces, vacuum sintering furnaces, vacuum heat treatment furnaces for making ceramic capacitors, vacuum brazing furnaces for heat exchangers, and vacuum freeze drying equipment used in pharmaceuticals and freeze-dried foods is added to our portfolio.
Materials

In the electronic materials field, we provide high-quality sputtering target materials to various industries, such as FPD, semiconductors, and electronic devices. We play a significant role in thin-film materials that are used in cutting-edge devices. We melt, process, and manufacture adjusted to customers' needs of high melting point metal (e.g., tantalum, niobium) parts used in high-functional material applications such as electronic devices, chemical industry, medical industry, and electronic accelerators.

Analyzers, controllers, mask blanks, etc.

We provide technologies to many industries by using related technologies derived from vacuum manufacturing equipment. In our analytical equipment line, we provide surface analysis to research institutions. Our control systems products are used in industrial machinery drive gears primarily in the auto industry. We are also active in the manufacture of mask blanks", which are crucial to the manufacture of semiconductor integrated circuits at the heart of computers and electronics.

* Tonnage beads: The substrates that hold the master patterns in the manufacture of semiconductor integrated circuits
* Surface analysis
* Controllers
* Mask blanks, etc.

CORPORATE DATA

As of June 30th, 2019

Name: ULVAC, Inc.
Head Office: 2500 Hagisono, Chigasaki, Kanagawa, Japan
Established: August 23, 1952
Capital: 20,873,042,500 yen
Net sales: Non-consolidated 119,509 Billion yen
   Consolidated 220,721 Billion yen
Number of Employees: Non-consolidated 1,335
   Consolidated 6,424
Business Areas: Development, manufacturing, sale, and customer support for vacuum equipment,
   peripheral devices, vacuum components, and materials for the display, solar cell,
   semiconductor, electronic, electric, metal, machinery, automobile, chemical,
   food product, and medical product industries, as well as universities and
   research labs, and import and export of various equipment. Additionally,
   research guidance and technical advising on vacuum technologies in general.

Net sales by business segment (Millions of yen)

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<th>Business Segment</th>
<th>Total 220,700</th>
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<tr>
<td>Vacuum Application Business</td>
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<tr>
<td>FPD-PV production equipment</td>
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<tr>
<td>Material</td>
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<td>Industrial equipment</td>
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<td>Components</td>
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<td>Others</td>
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Net sales by region (Millions of yen)

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<th>Region</th>
<th>Total 220,700</th>
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<tr>
<td>Overseas</td>
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<td>Japan</td>
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<td>Europe, others</td>
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<td>Other Asia</td>
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<td>South Korea</td>
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<td>China</td>
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Global Network
Solution networks to support the industrial development of the world

We have built sales and service networks optimized for each region by partnering with our 50 group companies, not only in Japan, but also in Europe, the US and Asia. As the world’s largest comprehensive vacuum product manufacturer, we provide everything from R&D to manufacturing, sales, and customer support, and we will keep supporting global industry through vacuum technology.