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.
TOP MESSAGE

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 an idea that was 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.

BASIC CORPORATE PHILOSOPHY

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'timate and 'VAC' from 'vaccum', 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.

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 more than 60%.

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

1952 | JAPAN VACUUM ENGINEERING CO., LTD. was established
1955 | Established the Omori 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 distilling 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 as 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 to IBM
1986 | The "MEX 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 disks, became a hit globally
1990 | Established the Fujitsu Systems Plant as a dedicated plant for semiconductor production equipment
1992 | Launched the dedicated LCD production "SMD Series" deposition system, which became a cornerstone of the PDP business
1995 | Established a production base in China and a sales / service base in South Korea
1999 | Established the Institute for Semiconductor and Electronics Technology
2001 | Established the Institute for Sensor and Electronics Technology
2004 | New buildings of Chigasaki Head Office/Plant were completed
2005 | Established a large-scale production base for large LCD production equipment in South Korea
2006 | Established a production subsidiary for large LCD production equipment in Taiwan
2010 | Established the Institute for Super Materials in South Korea
2012 | The company celebrated the 60th anniversary of its founding
2015 | Established the Future Technology Research Laboratory
2016 | ULVAC (SUZUKI) CO., LTD. began manufacturing production equipment for large displays
2018 | Established ULVAC-Tokai University Joint Research Laboratory for Future Technology in Graduate School of Engineering, Tokai University
2021 | Established ULVAC Advanced Technology Collaborative Research Cluster in Tokyo Institute of Technology
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.

FPD production equipment

* Liquid crystal display production equipment
* Organic EL production equipment
* Roll coater

Semiconductor and Electronic device 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.

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 to maintain vacuum, 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 is added to our portfolio.
ULVAC Materials Division provides high-quality, high efficiency advanced materials of vacuum technology to the world market. We supply thin film materials (mainly sputtering target) used in deposition process of semiconductor/electronics devices and FPD aiming smart society and reduced power consumption, contributing to the development and production of state-of-the-art devices. We melt, process, and manufacture adjusted to customers need 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.

ULVAC Materials Division

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.

Materials

- Sputtering target materials
- High melting point metal materials and production of components
- Molybdenum foil

- Surface analysis
- Controllers
- Mask blanks, etc.

CORPORATE DATA

As of June 30th, 2021

Name
ULVAC, Inc.

Head Office
2500 Hagisono, Chigasaki, Kanagawa, Japan

Established
August 23, 1952

Capital
20,873,042,500 yen

Net sales
Non-consolidated 81,690 Billion yen  Consolidated 183,011 Billion yen

Number of Employees
Non-consolidated 1,294  Consolidated 6,063

Business Areas
Development, manufacturing, sale, and customer support for vacuum equipment, peripheral devices, vacuum components, and materials for the display, 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

<table>
<thead>
<tr>
<th>Segment</th>
<th>Vacuum Application Business</th>
<th>FPD-PV production equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Others</td>
<td>19,590 (16%)</td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>16,000 (14%)</td>
<td>45,500 (31%)</td>
</tr>
<tr>
<td>Industrial equipment</td>
<td>29,991 (10%)</td>
<td></td>
</tr>
<tr>
<td>Components</td>
<td>20,690 (15%)</td>
<td>58,000 (33%)</td>
</tr>
<tr>
<td>Total</td>
<td>183,000 (100%)</td>
<td></td>
</tr>
</tbody>
</table>

Net sales by region

- Japan  65,500 (15%)
- Overseas  117,500 (15%)
- Europe, others  11,500 (6%)
- Other Asia  5,700 (3%)
- China  62,000 (14%)
- South Korea  6,400 (14%)
- Taiwan  16,500 (10%)
- Total  183,000 (100%)
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 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.

Research & Development

Integrated group development system that paves the way to the future

We have provided products and materials based on vacuum technology that is essential to all industries. With our integrated group development organization, we create high value-added products and technologies through innovative and advanced technical development to meet the requirements of overseas device makers for speed, and to satisfy the actual and potential needs of our customers.

Customer Support

ULVAC CS Solutions pool the Group’s knowledge

We pursue outstanding service concentrating our Group’s knowledge, in order to support our customers’ production operations according to customer needs. Furthermore, customer voices are used to develop new equipments and technologies, we aim to offer more advanced vacuum technologies and service.