ULVAC GROUP'S HISTORY

The spirit of the ULVAC Group, passed down over more than 60 years

Vacuum technology is now an indispensable part of a range of manufacturing processes.

As the world's only comprehensive vacuum products manufacturer, ULVAC provides products to industry and research institutions etc.

The DNA of young researchers with the ambition to "contribute to Japanese industry through vacuum technology" has been passed down to this day. ULVAC has been providing the latest technology to the world for more than 60 years.

The story of ULVAC's establishment - the 6 angels* and ULVAC -

ULVAC was established in 1952, which was a year in which Japan was attempting post-war recovery and it was unimaginable that vacuum technology could form the basis for a business, let alone contribute to manufacturing

ULVAC was established in that time period with the blessing of 6 angels, led by Konosuke Matsushita, who is known as the god of management and is the founder of Matsushita Electric Industrial Co., Ltd. (now Panasonic).

The 6 angels were moved by the devoted passion of young researchers such as Jin Imachi, Chikara Hayashi, and Hideo Shibata, who came together with the aim of "establishing vacuum technology in Japan and contributing to Japanese industry" and invested accordingly. These investments resulted in ULVAC (then Japan Vacuum Engineering Co., Ltd.)



Yoshijiro Ishikawa President of Keifuku Electric Railroad Co., Ltd. and ULVAC's first president



Konosuke Matsushita President of



Yoshio Osawa Chairman of the board of



Life Insurance Co.

Chairman of the Japan and Industry



Industrial Co. Ltd.

Tamesaburo Yamamoto President of Asah

1980~

1952~

1952

- 1952 Established Japan Vacuum Engineering Co., Ltd.
 - Received first order for vacuum evaporation equipment to plate automotive parts from Hakkosha (now Ichiko Industries, Ltd.)
- 1955 Opened Omori Plant and commenced domestic equipment production
- Merged with Toyo Seiki Vacuum Research Corporation
- (1956) and expanded operations to become a comprehensive vacuum products manufacturer through the transferal of engineers from the Tokuda Manufacturing Co., Ltd. (1959)
- Opened the Yokohama Plant

1960-

- Developed successive large-scale vacuum devices for heavy industries, such as vacuum melting furnaces and vacuum distillation
- Established ULVAC's first overseas subsidiary in Hong Kona
- Completed Chigasaki Head 1968 Office and Plant
- 1972 Opened the Institute for uper Materials as UI VAC's first dedicated research

1970~

• Received order from IBM for System 731, which was the world's first fully automated vacuum evaporation equipment



1986 • The MCH Series, which was the world's first multi-chamber sputtering equipment, received positive reviews from many semiconductor manufacturers



1988 • The SHD Series of hard disk manufacturing equipment was a global hit

The world's first liquid crystal display and ULVAC

1973





Transparent conductive film deposition equipment that contributed to the development of the liquid crystal display



Electrical tabletop calculating device (calculator) is one of the great global hit products created by Japanese companies, and they made a tremendous contribution to Japan by allowing cutting-edge semiconductor and liquid crystal display manufacturing technology to take hold domestically.

In 1973, ULVAC perfected the transparent conductive film trial manufacture and production equipment, which was a key to the manufacturing process for the Sharp hit product ELSI MATE EL-805 LCD calculator. Leveraging this experience, ULVAC gained the top global share of display device manufacturing equipment for LCD flat-screen TVs.

2010~

2005~

2000~

1990-

1990 • Opened the Fuji Susono Plant as a specialist semiconductor manufacturing equipment

become well-known by many users.

Origin of the "ULVAC" trademark:

Executive Director Chikara Hayashi

In the 1960s, as products developed by ULVAC began to contribute to

Japanese industry bit by bit, more and more advanced vacuum technology

demonstrate the critical nature of the demands placed on vacuum technology.

The name "ULVAC" is an abbreviation of "ULtimate in VACuum" (striving to be

changed to "ULVAC Corporation" (currently "ULVAC, Inc.") and the Japanese

corporate name was adapted in 2001, when the brand name "ULVAC" had

The Company unveiled the "ULVAC" trademark in 1963, in order to clearly

In 1969, the corporate name "Japan Vacuum Engineering Co., Ltd." was

unveils the "ULVAC" trademark when

Striving for the ultimate

1963

became sought after.

the ultimate in vacuums).

1992 • Released the SMD series of single substrate film deposition equipment, which became the hasis for UIVAC's FPD (flat panel display) business



1995 • Established a vacuum pump production center in China and a sales and service center in

- Opened the Institute of miconductor and Electronics Technologies
 - Changed company name to ULVAC. Inc.
- Completed the new Chigasaki Head Office and Plant building aimed at development and tria manufacture of large liquid crystal display manufacturing equipment



- Joined first section of the Tokyo Stock Exchange
- Established a dedicated production center for vacuum equipment in Suzhou, China

- 2005 Established a large-scale production center for large liquid crystal display manufacturing equipment ir South Korea
- 2006 Established a production subsidiary for large liquid crystal display manufacturing equipment in Taiwan
- Opened the Chiba Tomisato Plant to handle development and production of materials
 - Received order for a thin-film photovoltaic modules production turnkey line
- Developed the Magrise mass-production system for rare-earth magnets and thin-film lithium rechargeable battery integrated mass-production technology as post-FPD businesses

- 2011 Established the South Korea Institute for Super Materials in South Korea
- 2012 Celebrated the Company's 60th anniversary
- 2015 Established the Future Technology Research Laboratory

Vacuum technology to support storage media

1983

Roll-to-roll vacuum film deposition equipment to broader the scope of application to fields such as high-performance electronic components



Developed in 1983, ULVAC's roll-to-roll vacuum deposition equipment contributed greatly to the manufacturing process for high-performance 8mm video tape.

Throughout the history of vacuum technology ULVAC has contributed to a broad range of fields, spanning video tape through to floppy disks, hard disks, magneto-optical disks, and card-type memory, as well as peripheral devices that use these storage media, such as magnetic heads and optical





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