

ULVAC

ULTIMATE IN VACUUM

ULVAC, Inc.

Corporate Profile

2022 - 2023

ULVAC

ULVAC, Inc.

2500 Hagisono, Chigasaki, Kanagawa
253-8543, Japan

TEL: +81-467-89-2033

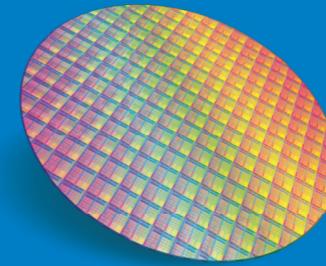
FAX: +81-467-82-9114

www.ulvac.co.jp/en

0110E202210500DNP



Aircraft



Semiconductors



Smartphones

Vacuum technology realized in everyday life



Drones



Pharmaceuticals



Packaging Materials



Automobiles



Flat Panel Displays



Food Processing

“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.

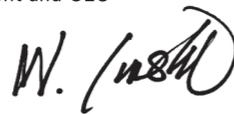
ULVAC continues to seek out the potential of vacuum technology and discover many innovations. Vacuum technology is the key to the future development of science and industry. We continue to challenge ourselves to generate new value and enrich our lives.

TOP MESSAGE

Building a flourishing future by creating innovative solutions to deliver industrial and scientific advancements

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 equipment, components, advanced materials, and analytical equipment. At ULVAC, we pursue leadership in vacuum technology to realize innovations for our customers.

Setsuo Iwashita
President and CEO




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.

ULVAC

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.

HISTORY

Since our founding 70 years ago, we have pursued the creation of new technologies in response to structural changes in industry, contributing to social growth and actively promoting globalization as markets change.

Our ratio of overseas sales now accounts for 70% of all sales.

Our passion for realizing growth in all industries and scientific fields through vacuum technology has been passed on in our DNA.

1952 | JAPAN VACUUM ENGINEERING CO., LTD. was established
| Received the first order of vacuum evaporation equipment for coating automobile parts from ICHIKOH INDUSTRIES (formerly HAKKOSHA)

1955 | Established the Omori Plant and started manufacturing 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 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 for IBM



1986 | The "MCH 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 discs, became a global hit

1990 | Established the Fuji Susono 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 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



| Listed its stock on the First Section of the Tokyo Stock Exchange
| Established a production base for full-scale vacuum equipment in Suzhou, China

2005 | Established a large-scale production base for large-size display production equipment in South Korea

2006 | Established a production subsidiary for large-size display 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)

2011 | Established the Institute for Super Materials in South Korea

2015 | Established the Future Technology Research Laboratory

2016 | ULVAC (SUZHOU) CO., LTD. began manufacturing production equipment for large displays

2018 | Established ULVAC-Osaka University Joint Research Laboratory for Future Technology in Graduate School of Engineering, Osaka University

2021 | Established ULVAC Advanced Technology Collaborative Research Cluster in Tokyo Institute of Technology

2022 | The company celebrated the 70th anniversary of its founding



FPD*¹ Production Equipment



ULVAC is recognized as the global leader in sputtering systems for liquid crystal display application. We provide state-of-the-art vacuum technology for organic LED mass production equipment and develop next-generation display technology. We also provide solutions from R&D to scaling and support to our FPD customers for TVs, smartphones, PCs, and tablets.

*1 FPD: Flat Panel Display



- Liquid crystal display production equipment
- Organic LED production equipment
- Evaporation 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, in which next-generation automobiles will play a significant role, is beginning to be realized. We globally engage with customers in fields, such as memory, logic power devices, communication devices, sensors, and opto devices, to develop innovative vacuum technology and help customers realize development and/or scaling production.



- Semiconductor production equipment (memory, logic, power or other devices)
- Electronic device production equipment (MEMS, communication devices, opto devices, etc.)
- Advanced packaging production equipment (WL-CSP, FoPLP, etc.)

Components



Our life is surrounded by electronic products made using vacuum technology, such as smartphones and IoT devices. 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 equipment.



- Vacuum pumps
- Vacuum gauges
- Helium leak detectors
- Process gas monitors
- Power supplies
- Vacuum valves
- Deposition controllers
- Vacuum transfer robots

Industrial Equipment



ULVAC has been at the forefront of industrial equipment manufacturing since its founding, contributing to the growth of heavy industries for steel and metal and to the automobile and home appliance industries. Today, we are making full use of the fundamental technologies we have cultivated so far to manufacture vacuum melting and vacuum sintering furnaces for rare earth magnets used in EV drive motors, vacuum sintering furnaces for manufacturing tantalum capacitors, and vacuum brazing furnaces for heat exchange parts. We also develop furnaces for manufacturing silicon wafers. In the field of life sciences, we develop lyophilizers for pharmaceuticals and centrifugal thin film evaporators for pharmaceutical ingredients.



- Vacuum heat treatment furnaces
- Vacuum brazing furnaces
- Vacuum melting furnaces
- Lyophilizers
- Micropowderdry™ systems
- Centrifugal thin film evaporators
- Automatic He leak test systems



CORPORATE DATA

As of June 30th, 2022

Name	ULVAC, Inc.
Head Office	2500 Hagisono, Chigasaki, Kanagawa, Japan
Established	August 23rd, 1952
Capital	20,873,042,500 JP yen
Net sales	Consolidated 241.260 billion JP yen (Non-consolidated 108.458 billion JP yen)
Number of Employees	Consolidated 6,235 (Non-consolidated 1,361)
Business Areas	Develops, manufactures, sells, and provides customer support for vacuum equipment, peripheral devices, vacuum components, and materials for the flat panel 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

Materials



ULVAC Materials Division provides high-quality, high-efficiency advanced materials in vacuum technology to the world market. We supply thin film materials (mainly sputtering targets) used in the deposition process of semiconductor/electronic devices and FPD contributing to the development and production of state-of-the-art devices. To meet our customers' needs, we melt, process, and manufacture high-melting-point metal (e.g., tantalum, niobium) parts used in high functional material applications for chemical and medical industries and for electronic devices and accelerators.



- Sputtering target materials
- High-melting-point metal materials and production of components
- Nano-metal inks

Surface Analysis Instruments, 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 instruments and analytical services to research institutions. Our control systems products are used in industrial machinery drive gears primarily in the automobiles. We are also active in the manufacture of mask blanks for semiconductors and large-size mask blanks for FPDs, which are key components of the lithography process indispensable for the manufacture of computer and electronics products in the semiconductor field.

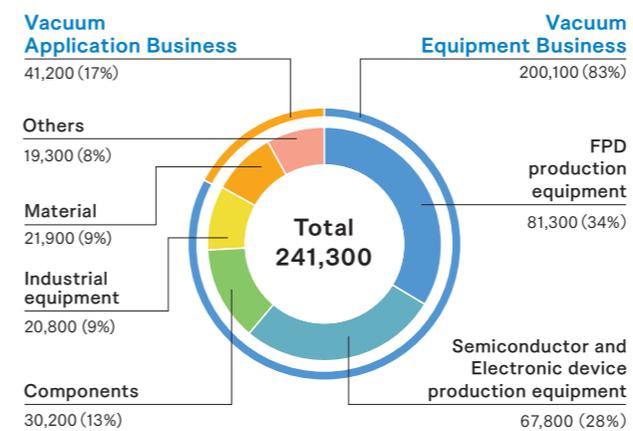
*2 Mask blanks: The substrates that hold the master patterns in the manufacture of semiconductor integrated circuits



- Surface analysis instruments
- Controllers
- Mask blanks, etc.

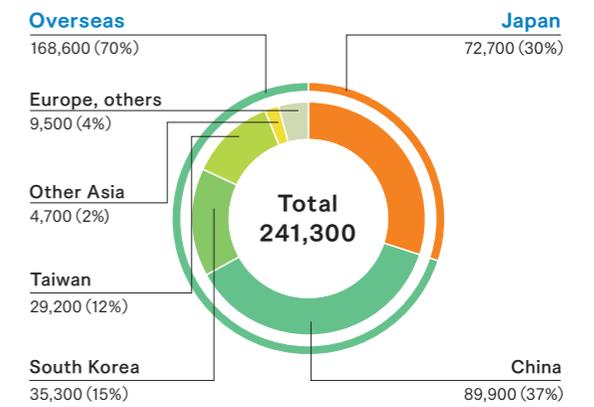
Net sales by business segment

(Millions of JP yen)



Net sales by region

(Millions of JP yen)



Figures indicated above are rounded off to the nearest unit and may not coincide with the total.

ULVAC WORLDWIDE

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 the development of global industry and science through vacuum technology.

Company Name	Address	Phone Number	Business Areas
ULVAC, Inc.	2500 Hagisono, Chigasaki, Kanagawa 253-8543 Japan	+81-467-89-2033	Develops, manufactures, sells, and provides customer support for vacuum equipment, peripheral devices, vacuum components, and materials for the flat panel 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
ULVAC COATING CORPORATION	2804 Terao, Chichibu, Saitama 368-0056 Japan	+81-494-24-6511	Manufactures, processes and sells mask blanks for semiconductors and FPDs
ULVAC KIKO, Inc.	291-7 Chausubaru, Saito, Miyazaki 881-0037 Japan	+81-983-42-1411	Manufactures and sells vacuum pumps and vacuum equipment
ULVAC-PHI, Inc.	2500 Hagisono, Chigasaki, Kanagawa 253-8522 Japan	+81-467-85-6522	Manufactures and sells surface analysis instruments
ULVAC CRYOGENICS INCORPORATED	1222-1 Yabata, Chigasaki, Kanagawa 253-0085 Japan	+81-467-85-0303	Manufactures and sells cryopumps and cryogenic equipment
SHOWA SHINKU CO., LTD.	3062-10 Tana, Chuo-ku, Sagami-hara, Kanagawa 252-0244 Japan	+81-42-764-0321	Manufactures and sells vacuum equipment for quartz devices and optical applications
ULVAC TECHNO, Ltd.	2609-5 Hagisono, Chigasaki, Kanagawa 253-8555 Japan	+81-467-87-1046	Sells and provides customer support for vacuum equipment, devices, parts, consumable materials, surface treatment, cleaning and used equipment
ULVAC EQUIPMENT SALES, Inc.	5F Shinagawa Front Building, 2-3-13 Kounan, Minato-ku, Tokyo 108-0075 Japan	+81-3-5769-5511	Sells vacuum equipment and components
TIGOLD CORPORATION	2500 Hagisono, Chigasaki, Kanagawa 253-8543 Japan	+81-467-89-2198	Deposits composite films, develops and sells their related materials and technologies
NISSIN SEIGYO Co., LTD.	1160-33 Hagisono, Chigasaki, Kanagawa 253-0071 Japan	+81-467-58-4525	Designs control systems for vacuum equipment. Manufactures, and sells automatic control panels
FINE SURFACE TECHNOLOGY CO., LTD.	2804 Terao, Chichibu, Saitama 368-0056 Japan	+81-494-24-6590	Provides ultra-precision polishing technologies for glass substrates used in the semiconductor field, and blasts parts for ultra-precision equipment
ULVAC (CHINA) HOLDING CO., LTD.	4A, Building 1, No. 1000 Qixin Road, Minhang District, Shanghai 201199 China	+86-21-6127-6610	Undertakes administrative and coordinating tasks for investment and business in China
ULVAC (Shanghai) Trading Co., Ltd.	1st-3rd Floor, Building 1, No. 1000 Qixin Road, Minhang District, Shanghai 201199 China	+86-21-6217-6618	Sells and provides customer support for products manufactured by ULVAC group companies
ULVAC (NINGBO) CO., LTD.	No. 888 Tonghui Road, Jiangbei District, Ningbo 315020 China	+86-574-8790-5551	Manufactures, sells and provides customer support for vacuum pumps
ULVAC NONFERROUS METALS (NINGBO) CO., LTD.	No. 99 Haichuan Road, Jiangbei District, Ningbo 315032 China	+86-574-8757-5856	Manufactures, sells and provides research guidance/technical advice on casting materials (e.g. aluminum alloys)
ULVAC (SUZHOU) CO., LTD.	No. 277 Suhong East Road, Suzhou Industrial Park, Suzhou, Jiangsu 215026 China	+86-512-8666-9111	Manufactures, sells and provides customer support for vacuum equipment and components
ULVAC Research Center SUZHOU Co., Ltd.	No. 277 Suhong East Road, Suzhou Industrial Park, Suzhou, Jiangsu 215026 China	+86-512-8917-9801	Develops film deposition process, and provides technical support at customer sites
ULVAC Orient (Chengdu) Co., Ltd.	No. 1189 Baicao Road, Hi-Tech West Zone, Chengdu, Sichuan 611731 China	+86-28-8798-0133	Manufactures, sells and provides customer support for vacuum equipment
ULVAC ORIENT TEST AND MEASUREMENT TECHNOLOGY (CHENGDU) CO., LTD.	No. 1189 Baicao Road, Hi-Tech West Zone, Chengdu, Sichuan 611731 China	+86-28-8798-0138	Manufactures, sells and provides customer support for leak test equipment, components and refrigerant fillers
ULVAC CRYOGENICS (NINGBO) INCORPORATED	3F Building 3, No. 888 Tonghui Road, Jiangbei District, Ningbo 315020 China	+86-574-8790-3322	Manufactures, sells and provides customer support for cryopumps
ULVAC Automation Technology (Shanghai) Corporation	No. 198 Huancheng East Road, FengXian District, Shanghai 201401 China	+86-21-3756-5599	Manufactures and sells electrical control panels and automatic controllers
ULVAC (Shenyang) Co., Ltd.	No.12A Lantai Road, Hunnan District, Shenyang 110171 China	+86-24-2381-2999	Manufactures, sells and provides customer support for vacuum equipment
ULVAC Materials (Suzhou) Co., Ltd.	No. 55 Pingsheng Road, Industrial Park, Suzhou 215126 China	+86-512-8777-0123	Develops, manufactures, sells and provides customer support for sputtering target materials and their related components
ULVAC Tianma Electric (Jing Jiang) Co., Ltd.	No. 18 Xinzhou Road, Jingjiang, Jiangsu 214500 China	+86-523-8292-6002 +86-523-8292-6099	Manufactures and sells parts for vacuum pumps
ULVAC VACUUM EQUIPMENT (SHANGHAI) CO., LTD.	2B1-2, 2F, No. 213 Taigu Road, Wai Gao Qiao Free Trade Zone, Shanghai 200131 China	+86-21-6127-6618	Sells vacuum equipment and parts
ULVAC Coating Technology (HEFEI) Co., Ltd.	No. 358 Ming Zhu road, Hi-Tech District, Hefei, Anhui 230088 China	+86-551-6566-5280	Manufactures, processes and sells mask blanks for displays
Hong Kong ULVAC Co., Ltd.	Flat L, 9F SUMMIT Building, 30 Man Yue Street, Hungghom, Kowloon, Hong Kong	+852-2627-0200	Sells vacuum equipment and components

Company Name	Address	Phone Number	Business Areas
ULVAC KOREA, Ltd.	5, Hansan-gil, Cheongbuk-eup, Pyeongtaek-si, Gyeonggi-do 17792 Korea	+82-31-683-2922	Manufactures, sells and provides customer support for vacuum equipment
Hyeongok Factory	123, Hyeongoksan-ro, Cheongbuk-eup, Pyeongtaek-si, Gyeonggi-do 17812 Korea	+82-31-617-9500	
Songtan Factory	68, Sandan-ro 52beon-gil, Pyeongtaek-si, Gyeonggi-do 17746 Korea	+82-31-680-9023	
Bundang Branch	27F B Kins Tower, 8, Seongnam-daero 331beon-gil, Bundang-gu, Seongnam-si, Gyeonggi-do 13558 Korea	+82-31-8023-9890	
Paju CSC	3F DA LCD Plaza, 6, LCD-ro, Wollong-myeon, Paju-si, Gyeonggi-do 10845 Korea	+82-31-8071-2920	
Hwaseong CSC	3F Taeyang B/D, 1369, Hyohaeng-ro, Hwaseong-si, Gyeonggi-do 18384 Korea	+82-31-206-2931	
Tangjeong CSC	4F Buheung B/D, 791, Eumbong-ro, Eumbong-myeon, Asan-si, Chungcheongnam-do 31419 Korea	+82-41-532-2921	
Gumi CSC	302-7, 3gongdan 1-ro, Gumi-si, Gyeongsangbuk-do 39391 Korea	+82-54-471-3567	
Busan Sales Office	T-PLEX 206-109, 50, Yutongdanji 1-ro, Gangseo-gu, Busan 46721 Korea	+82-51-317-2920	
Pure Surface Technology, Ltd.	60, Hyeongoksan-ro 93beon-gil, Cheongbuk-eup, Pyeongtaek-si, Gyeonggi-do 17812 Korea	+82-31-617-9800	Conducts surface treatment of parts for deposition equipment Conducts bonding of sputtering target materials Manufactures parts for large substrate vacuum equipment and other vacuum equipment
PST Hyeongok 4 Factory	60, Hyeongoksan-ro 93beon-gil, Cheongbuk-eup, Pyeongtaek-si, Gyeonggi-do 17812 Korea	+82-31-617-9800	
PST Paju Factory	51, Dangdong 2-ro, Munsan-eup, Paju-si, Gyeonggi-do 10816 Korea	+82-31-617-9800	
PST Gwangsung Factory	115-8, Gwangsung-gil, Cheongbuk-eup, Pyeongtaek-si, Gyeonggi-do 17811 Korea	+82-31-617-9800	
ULVAC CRYOGENICS KOREA INCORPORATED	107, Hyeongoksan-ro, Cheongbuk-eup, Pyeongtaek-si, Gyeonggi-do 17812 Korea	+82-31-683-2926	Manufactures and sells cryopumps
ULVAC TAIWAN INC.	8F, No. 5, Keji Rd., Hsinchu Science Park, Hsinchu City 300092 Taiwan (R.O.C.)	+886-3-579-5688	Manufactures, sells and provides customer support for vacuum equipment
Taichung Office	1F, No. 37, Keya Rd., Daya Dist., Taichung City 428015 Taiwan (R.O.C.)	+886-4-2565-3600	
Tainan Fab	No. 27, Nanke 2nd Rd., Tainan Science Park, Xinshi Dist., Tainan City 744092 Taiwan (R.O.C.)	+886-6-505-8080	
ULTRA CLEAN PRECISION TECHNOLOGIES CORP.	No. 27, Sec. 1, Huandong Rd., Southern Taiwan Science Park, Xinshi Dist., Tainan City 744092, Taiwan (R.O.C.)	+886-6-505-8888	Manufactures, cleans, conducts surface treatment and provides customer support for vacuum equipment and parts
Taoyuan Branch	No. 20, Ln. 211, Puzhong Rd., Zhongli Dist., Taoyuan City 320071 Taiwan (R.O.C.)	+886-3-286-0998	
Taichung Office	1F, No. 37, Keya Rd., Daya Dist., Taichung City 428015 Taiwan (R.O.C.)	+886-4-2565-3400	
ULVAC SOFTWARE CREATIVE TECHNOLOGY, Co., Ltd.	23F, No. 27-9, Sec. 2, Zhongzheng E. Rd., Danshui Dist., New Taipei City 251030 Taiwan (R.O.C.)	+886-2-8809-2259	Develops and produces software for vacuum equipment control systems
ULVAC Materials Taiwan, Inc.	No. 37, Keya Rd., Daya Dist., Taichung City 42881 Taiwan (R.O.C.)	+886-4-2565-8299	Manufactures and sells sputtering targets for FPDs
ULVAC AUTOMATION TAIWAN Inc.	3F, No. 149, Wugong Rd., Wugu Dist., New Taipei City 24886 Taiwan (R.O.C.)	+886-2-2298-9957	Manufactures and sells control panels and automatic control equipment
Tainan Fab	No. 32, Ln. 269, Zhongzheng Rd., Yongkang Dist., Tainan City 71043 Taiwan (R.O.C.)	+886-6-203-1320	
ULCOAT TAIWAN, Inc.	No. 60, Industry III Rd., An-Nan Dist., Tainan 709 Taiwan (R.O.C.)	+886-6-384-0736	Manufactures, processes and sells mask blanks for semiconductors/FPDs and black matrixes for FPDs
ULVAC SINGAPORE PTE LTD	11 Tampines Street 92, Tampines Biz-Hub #02-08, 528872 Singapore	+65-6542-2700	Sells and provides customer support for vacuum equipment and components
Philippines Branch Office	Panorama Compound 2, Lot 2, Block 22, Phase 4, Building 1B EPZA, Rosario, Cavite 4106 Philippines	+63-46-437-7700	
Vietnam Representative Office	29/11/100 Le Duc Tho Street, Ward 7, Go Vap District Ho Chi Minh City 727000 Vietnam	+84-28-3821-2367	
Indonesia Representative Office	Jl Kenari II Blok G1A No 3, Delta Silicon V Industrial Park, Cicau, Cikarang Pusat, Bekasi 17550 Indonesia	+62-21-8990-5070	
India Branch	301, Tara Tycoon 12-13-97, Tarnaka Secunderabad - 500017, India	+91-40-27007006	
ULVAC (THAILAND) LTD.	110/6 Moo 13 Soi 25/2, Kingkaew Road, Tambol Rachathewa, Amphur Bangplee, Samutprakarn 10540 Thailand	+66-2-738-8883	Sells and provides customer support for vacuum equipment and components
ULVAC MALAYSIA SDN. BHD.	No.8 Jalan Gitar 33/3, Elite Industrial Estate, Off Jalan Bukit Kemuning, 40350 Shah Alam, Selangor Darul Ehsan, Malaysia	+60-3-5121-4700	Sells, provides customer support and conducts cleaning and target bonding for vacuum equipment and components
FIELD SUPPORT (KULIM SITE)	No.2, Lorong Perusahaan 6C, Kawasan Industri MIEL, 09000 Kulim, Kedah, Malaysia	+60-4-489-3391	
BONDING FACTORY (KL)	No 6, Jalan Biola Satu 33/1A, Elite Industrial Estate, Off Jalan Bukit Kemuning, 40400 Shah Alam, Selangor Darul Ehsan, Malaysia	+60-3-5131-9962	
ULVAC Technologies, Inc. Head Office/Eastern Regional Sales Office	401 Griffin Brook Drive Methuen, MA 01844 U.S.A.	+1-978-686-7550	Sells and provides customer support for vacuum equipment
Physical Electronics USA, Inc.	18725 Lake Drive East, Chanhassen, MN 55317 U.S.A.	+1-952-828-6200	Sells and provides customer support for surface analysis instruments
ULVAC GmbH	Klausnerring 4, 85551, Kirchheim b, (Munich), Germany	+49-89-96-0909-0	Sells and provides customer support for vacuum equipment and components