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Energy Saving Pumps, Eco-Friendly Company

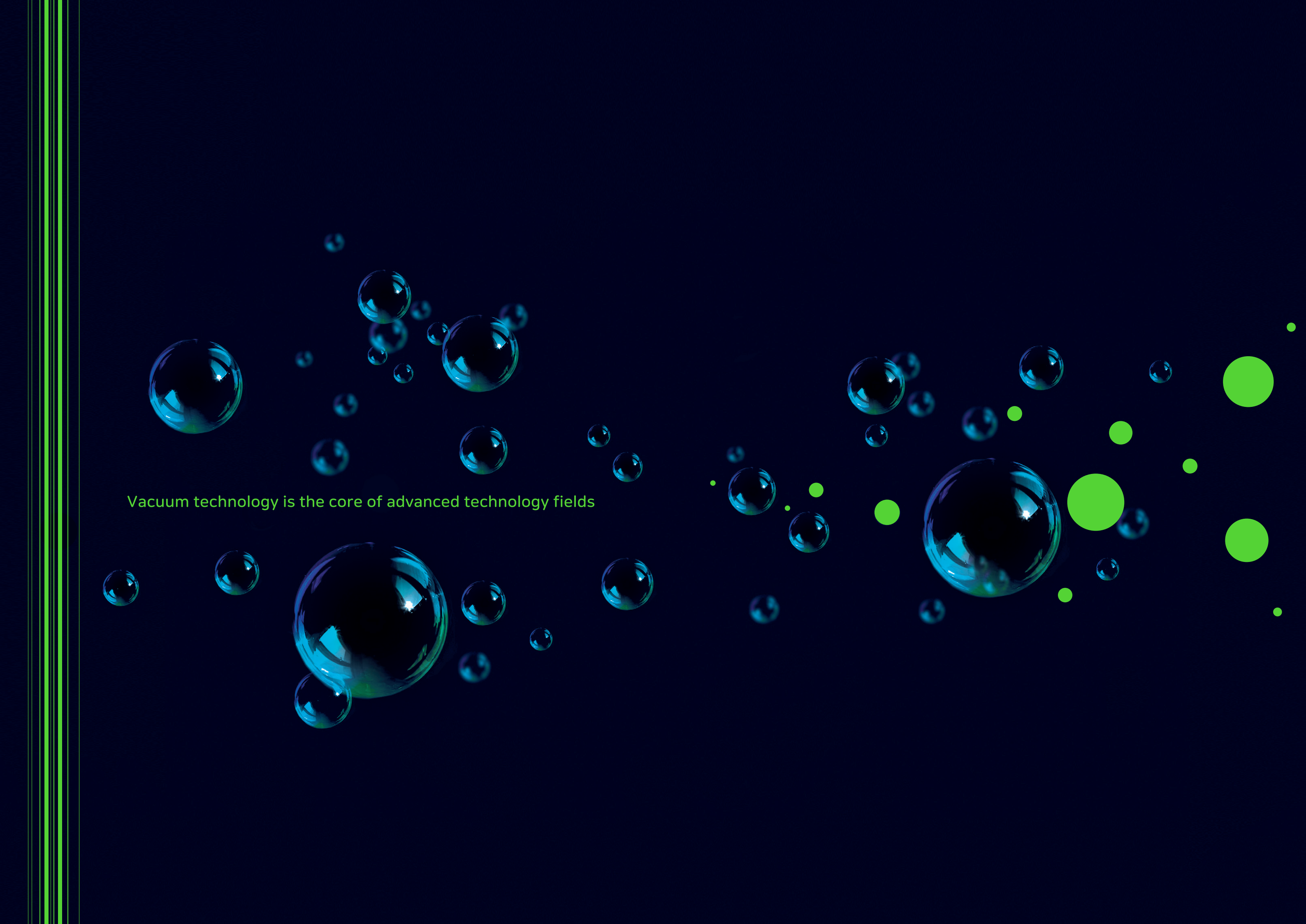
KASHIYAMA K TECH
VACUUM TECHNOLOGY

Kashiyama
Vacuum Solutions

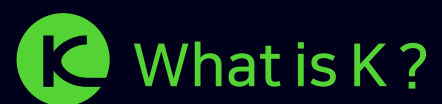
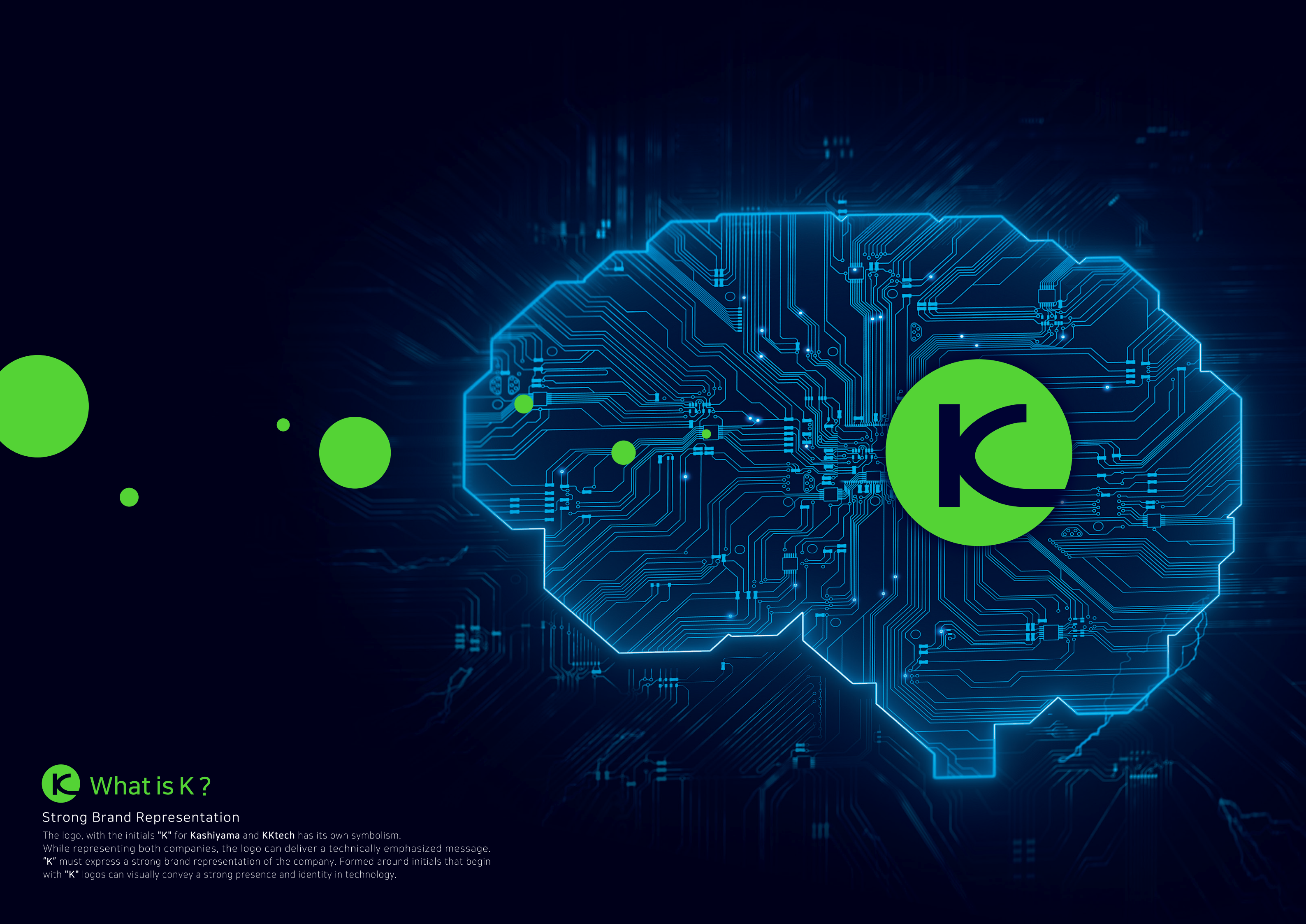
www.kashiyama.com

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KASHIYAMA K TECH CO., LTD.
KKTech

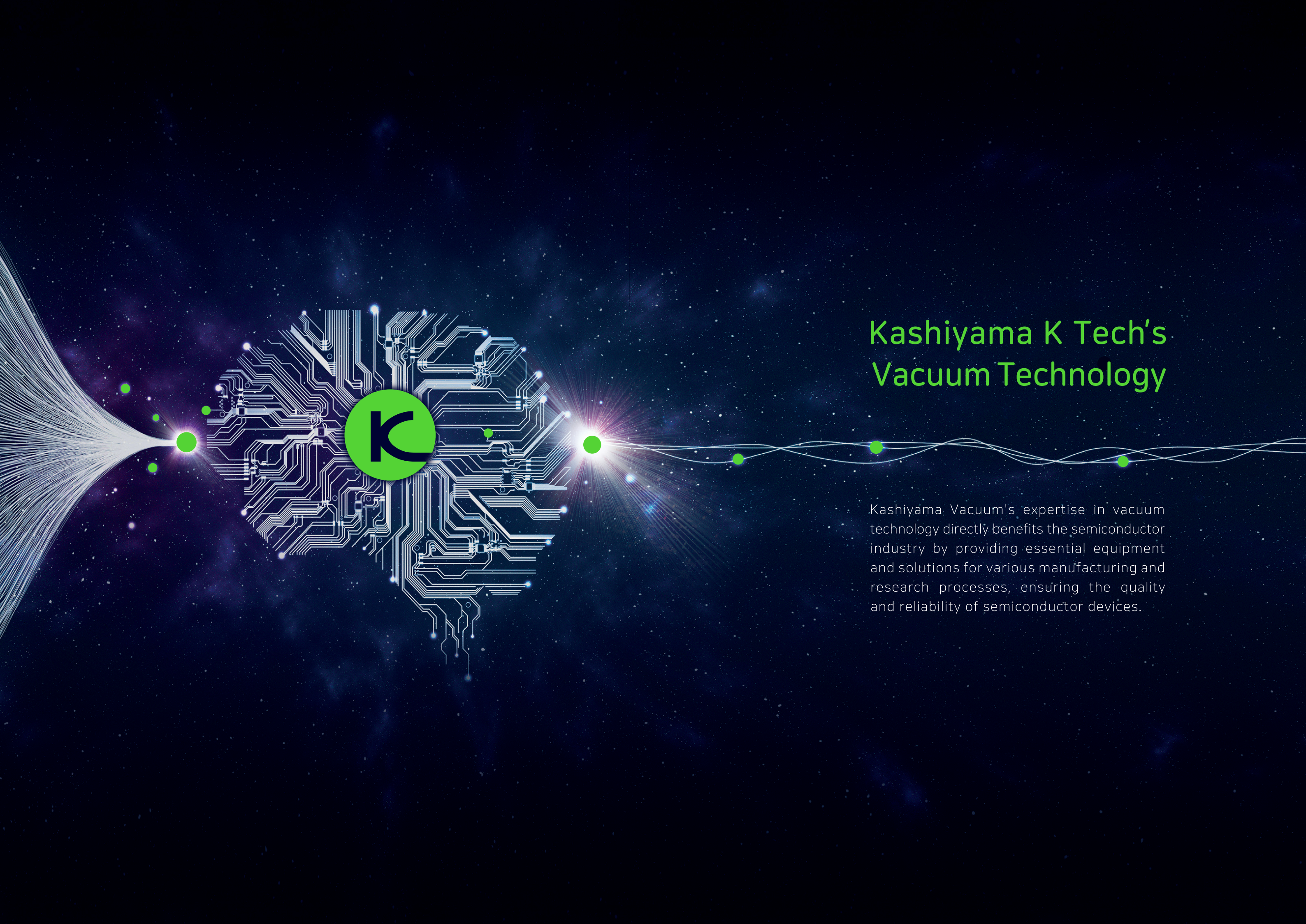


Vacuum technology is the core of advanced technology fields



Strong Brand Representation

The logo, with the initials "K" for **Kashiyama** and **KKtech** has its own symbolism. While representing both companies, the logo can deliver a technically emphasized message. "K" must express a strong brand representation of the company. Formed around initials that begin with "K" logos can visually convey a strong presence and identity in technology.



Kashiyama K Tech's Vacuum Technology

Kashiyama Vacuum's expertise in vacuum technology directly benefits the semiconductor industry by providing essential equipment and solutions for various manufacturing and research processes, ensuring the quality and reliability of semiconductor devices.

Various KKTech's Products

Vacuum Instrument

KKTech's products have earned customer trust in advanced technology industries, especially semiconductor and FPD manufacturers. This confidence is the result of the vacuum technology that we have been developing over the years. Particularly, our series of dry vacuum pumps, which have become standard equipment in semiconductor manufacturing, are the best in vacuum technology. Their proven reliability has been highly appreciated by many customers.

SDE Series



HIGH QUALITY

SD Series



COMPACT FOOTPRINT

MU-XE Series



ECO FRIENDLY

NeoDry-E Series



ENERGY SAVING

NeoDry-G Series



LOW NOISE • LOW VIBRATION

MUP Series



HIGH QUALITY

SDL Series



LARGE CAPACITY



Development Scene



Manufacture of vacuum pump

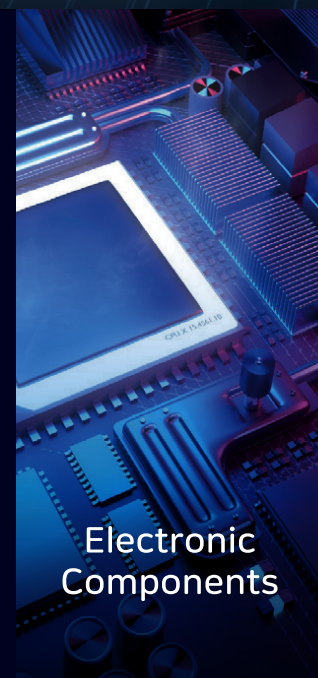


Manufacture of vacuum pump

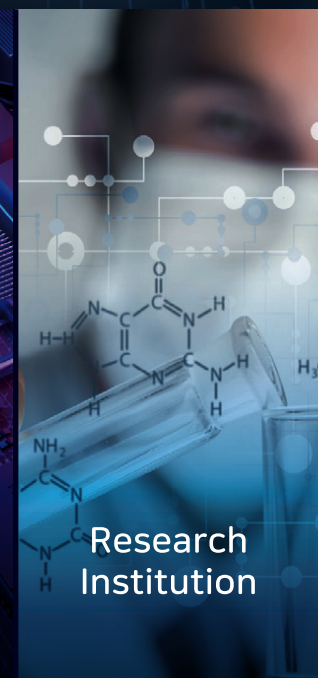
The Diversity of Innovation



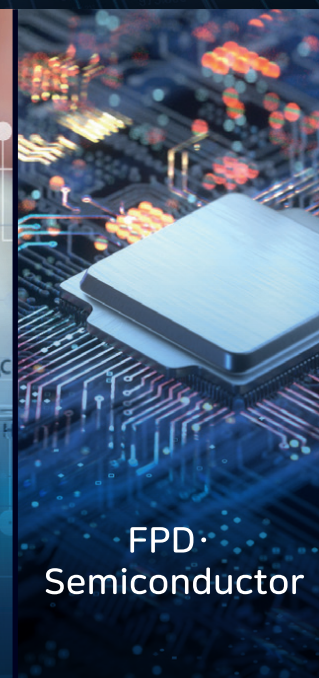
KKTech is providing vacuum instruments that meet the absolute cleanliness required by semiconductor manufacturers. We develop and supply high-quality, highly reliable equipment tailored to customers' requirements, for every manufacturing environment. As a technology-oriented manufacturer, we utilize a wealth of knowledge and experience. Our technology is really comprehensively used in a wide variety of fields.



Electronic
Components



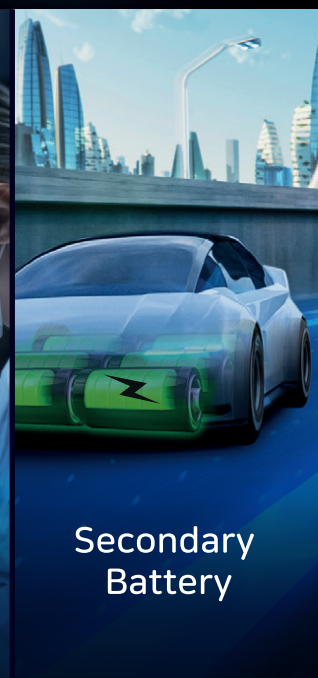
Research
Institution



FPD
Semiconductor



Medical
Treatment



Secondary
Battery



Kashiyama Korea History



2021~2024

Korea Semiconductor Industry Association (KSIA) Award Winner
Acquisited the 3rd plant (K3)
Promoted to a Mid-Sized Firm
Ceremony for the shipment of localized products SDE1203XK Process Unit Pump

2016~2021

Korea Semiconductor Industry Association (KSIA) Award Winner
Completion the 2nd plant (K2)
(Location : 126, Muneung-ro, Daedeok-myeon, Anseong-si, Gyeonggi-do, Korea)
Received US\$10 million Export Tower Award
Won a contracts and Achieve KRW ₩100 billion in revenue

2011~2015

Ceremony for the shipment of localized products MU100XL/L,T/M Pump
Acquired Occupational Health and Safety Management System (KOSHA18001) certification
Received US\$5 million Export Tower Award
Selected as a Main-Biz (for small businesses promoting management innovation)

2007~2010

Received US\$3 million Export Tower Award
Received Award from the Commissioner of Korea Customs Service on Taxpayers' Day
Received US\$1 million Export Tower Award
Shipped 1000 units of KMB1203
Ceremony for the shipment of localized products KMB1203 Booster Pump

2006

Relocated to a newly developed plant
(Location : 132, Muneung-ro, Daedeok-myeon, Anseong-si, Gyeonggi-do, Korea)
Paid-in capital of 5 billion won
Registered as a foreign investment corporation (Gyeonggi-do Provincial Office)
Established a joint venture corporate
(268-1, Gyereuk-ri, Miyang-myeon, Anseong-si, Gyeonggi-do, Korea)
Signing Ceremony for a joint venture between
Kashiyama Industries, Ltd. and K·C·Tech Co.

Kashiyama Global History



2016~2024

Donggang Kashiyama Co., Ltd. was founded (in Dongguan, China).
Merged its subsidiary Kashiyama Seimitsu Co., Ltd.
Won 8 awards including the Gold Award at Japan Wine Competition.
Factory2 was completed (in Nagano Pref., Japan).
Delivered 200,000 units of dry vacuum pumps.
Awarded the "Factory Greening Award Program by METI".
Hiroshi Kashiyama becomes Chairman. Akifumi Kashiyama becomes President.
Gross sales JPY32.8 billion (Individual), JPY42.5 billion (Consolidated).
Kashiyama Europe GmbH was founded (in Munich, Germany).
Kashiyama Vietnam Co., Ltd. was founded (in Hanoi, Vietnam).
Changshu Kashiyama Co.,Ltd. was founded (in Changshu, China).

- GERMANY
- VIETNAM

2011~2014

Won the gold award at Japan Wine Competition.
Won the "Partnership" Award from TOSHIBA CORPORATION.
Kashiyama (Xi'an) Co., Ltd. was founded (in Xi'an, China).
Won the "Excellent Logistical Support" Award from Taiwan Semiconductor Manufacturing Co.,Ltd.
Won the "Technical Support" Award for the Quality Enhancement from Samsung Electronics Co.,Ltd.
Won the "Monozukuri Nagano" Award sponsored by Shinetsu Broadcasting Co., Ltd.

2003~2008

Kashiyama Seimitsu's factory was constructed in Nenei, Saku City.
Won the METI 's "Vigorous 300 Small and Medium-sized Enterprises" Award.
Kashiyama Taiwan Co., Ltd. was founded (in Taichung City, Taiwan).
Kashiyama.K.Tech Co., Ltd. was founded (in Anseong-si, Korea).
Kashiyama Kingtek Limited was founded (in Shanghai, China).

- TAIWAN
- KOREA
- CHINA

1972~1995

Gross sales JPY10.0 billion. Kashiyama USA Inc. was founded.
The main building of Shinshu Factory was completed (in Nenei, Saku City).
Started manufacturing dry vacuum pumps (Japan's first dry pump).
Started manufacturing direct-coupled oil rotary vacuum pumps.
Released Japan's first snow-making system
(which later became a big hit and dominates the market).
Started manufacturing (water-sealed rotary) Liquid ring vacuum pumps.

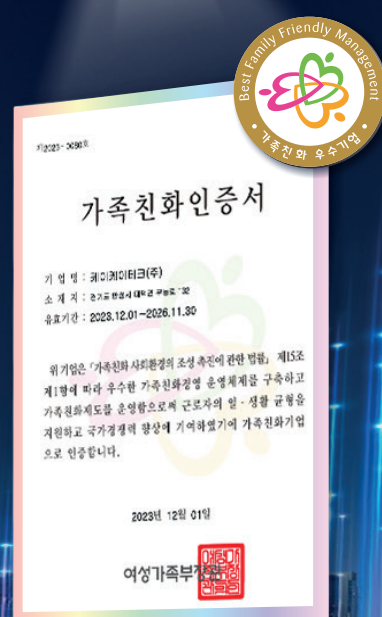
- USA
- JAPAN

1946~1951

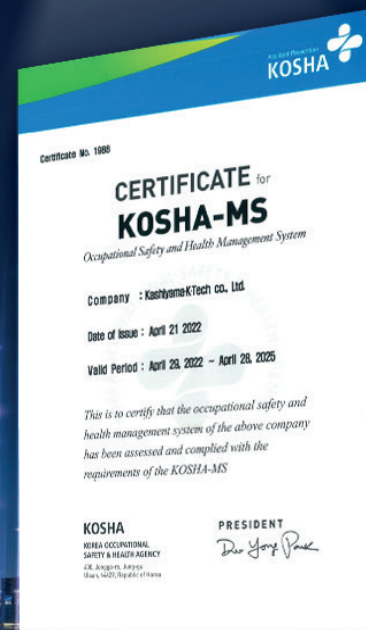
Kashiyama Shoten was incorporated as Kashiyama Industries, Ltd.
(Began the component manufacturing business for automotive and construction market).
Kashiyama Shoten was founded.

Certification

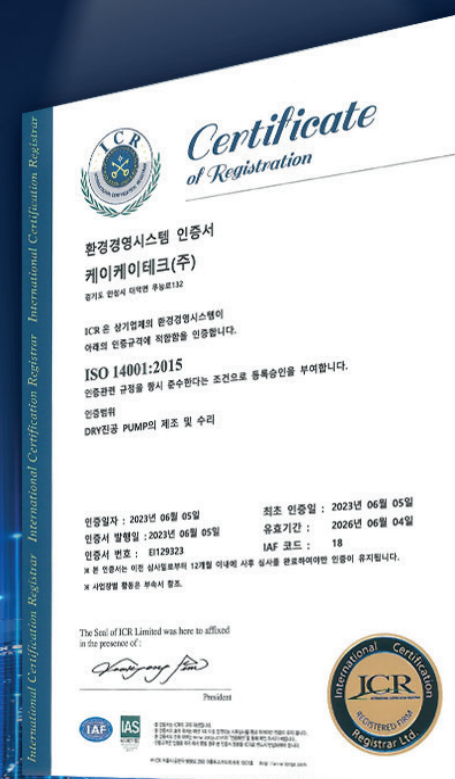
KKTech has demonstrated its ability and expertise by receiving official certificates.



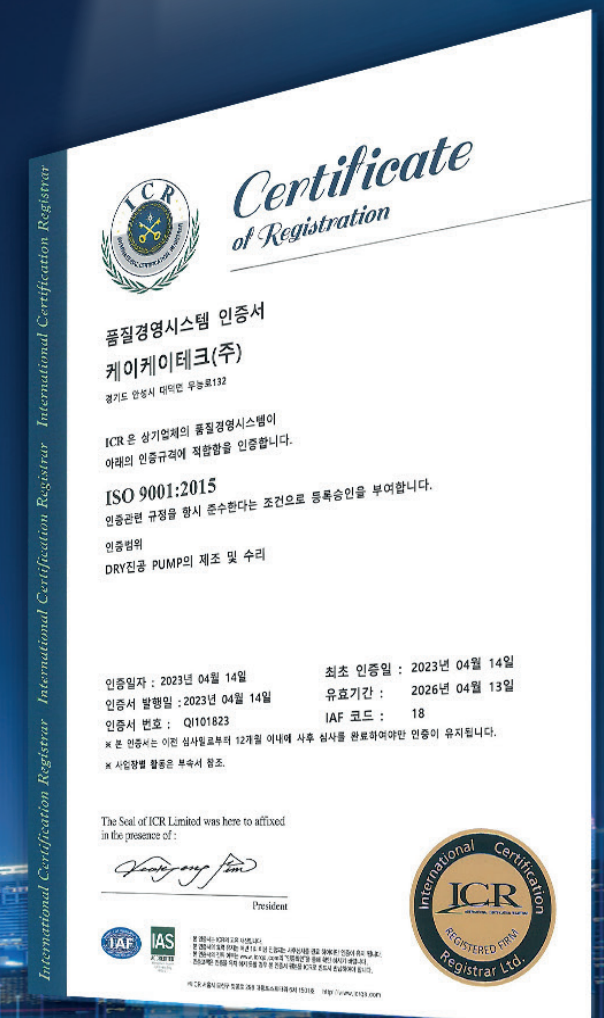
Ministry of Gender Equality & Family
Best Family Friendly Management
Certificated



KOSHA-MS
Occupational Safety and Health
Management System Certificated



ISO 14001:2015
Manufacturing and repair for
Dry Vacuum Pump Certificated



ISO 9001:2015
Manufacturing and repair for
Dry Vacuum Pump Certificated

Energy Saving Pumps Eco-Friendly Company

KKTech helps to create clean vacuum environment free from contaminants and oils. We believe it is a must to manufacture pumps that meet the requirements for the cleanest environments.

NeoDry-E Series

- Energy Saving Pumps
- No Oil smoke, No chamber contamination !

ECO



MU-XE Series

- Power Consumption 0.25kW
- Extremely Small Footprint

ECO



Dream Together, Better Earth with KKT





Kashiya Dry Pumps Product Series

KKTech Vacuum Technology

SDE Series

HIGH QUALITY

Standard type for harsh process

Large Capacity

- Available up to 200kL/min.
- Best for large wafer and FPD.
- Durable to various processes.



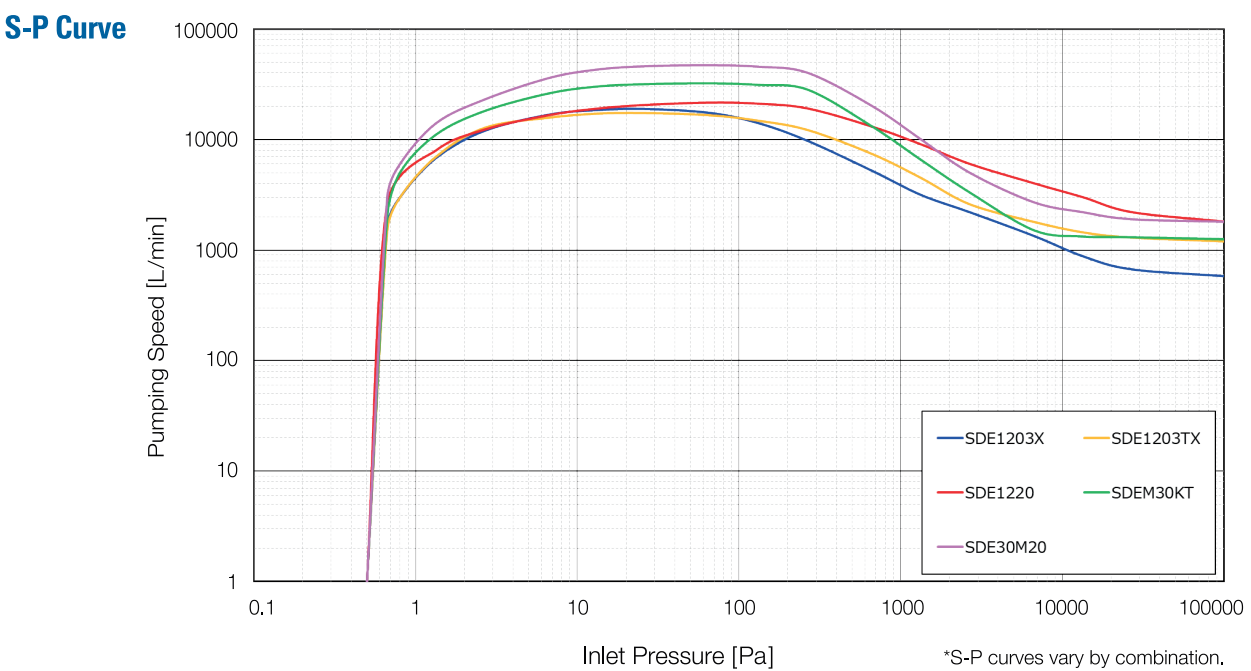
Major Products

Spec./Products ^{*1}		SDE1203X	SDE1203TX	SDE1220	SDEM30KT	SDE30M20
Max. Pumping Speed ^{*2}	L/min	20,000	20,000	20,000	30,000	50,000
Ultimate Pressure ^{*2}	Pa	0.5				
N ₂ purge	SLM	0~60		0~80	0~80	0~120
Power Supply		3Ph, 200~220V, 380~480V, 50/60Hz Allowable voltage variation ±10%				
Cooling Water	L/min	3.0	4.0			
Power Consumption	kW	2.0	3.2	3.1	3.8	3.9
Dimensions(LxWxH) ^{*3}	mm	900x400x905	900x400x905	930x400x780	900x460x980	1,100x500x950

^{*1} Smaller than 20,000L/min pumps are also available. ^{*2} Without N₂ purge. ^{*3} Package size. Dimensions vary by specification.
^{*}Contact us about international standard compliance. Spec. & name of products are subject to change without prior notice.

Kashiyama Dry Pumps

SDE SERIES Ver 4.0/16.1



SD Series

COMPACT FOOTPRINT

For harsh processes(SDX) and ultra-harsh processes(SDT)

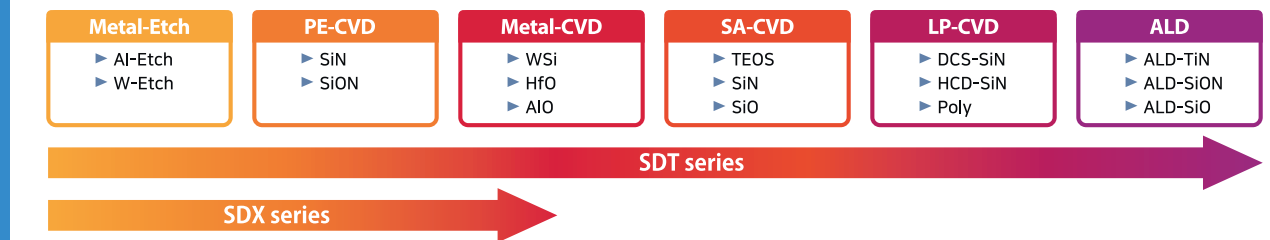
- Highly advanced process tolerance owing to vertical screw design
- World-class compact footprint
- Low-power consumption even in harsh processes
- Compliant with SEMI/CE/NRTL standards
- Highly reliable design



*Ready for evaluation orders

High level of excellence in process tolerance

- Further strengthened process tolerance owing to vertical screw design, wide range of temperature variations and new heater system
- 45% smaller footprint for 19,000 L/min class compared to our conventional models
- Harsh process application example

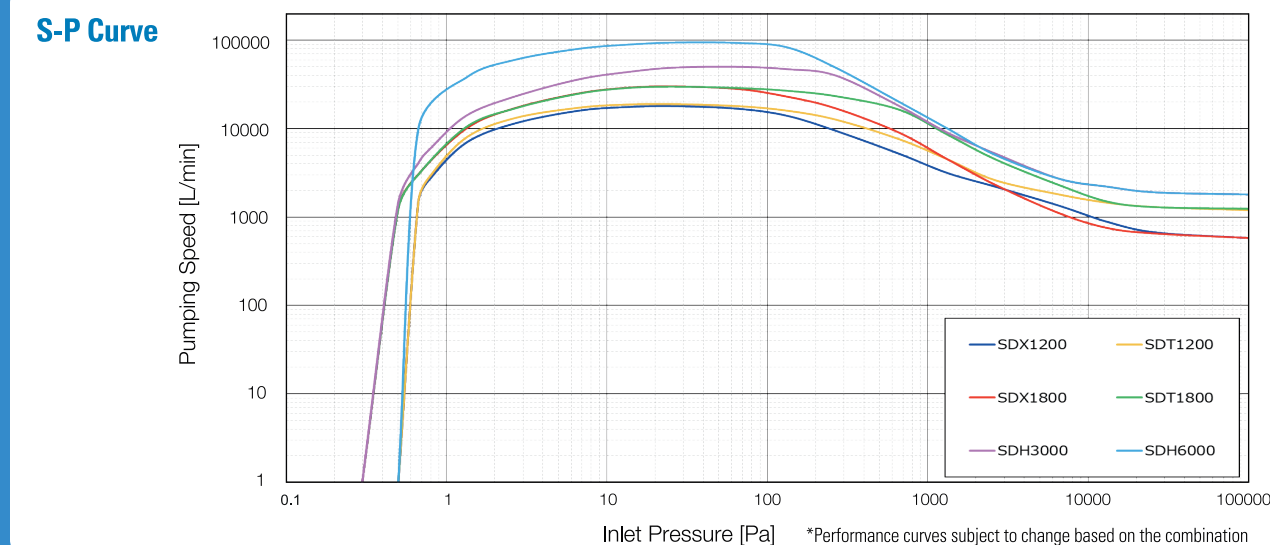


Major Products

Spec. / Products ¹		SDX1200	SDT1200	SDX1800	SDT1800	SDH3000	SDH6000
Max. Pumping Speed ²	L/min	20,000	20,000	30,000		50,000	100,000
Ultimate Pressure ²	Pa	0.5		0.3		0.3	0.5
N ₂ purge	SLM	0~80				0~120	0~120
Cooling Water	L/min	3.0	4.0	3.0	4.0		
Supply Voltage		3Ph, 200~220V, 380~440, 50/60Hz Allowable voltage variation ±10%					
Power Consumption ³	kW	1.65	3.15	2.1	3.3	3.3	3.7
Dimensions (LxWxH) ⁴	mm	695x285x850		850x380x950		910x420x900	1,050x515x950

¹) SDX energy-saving and harsh process-compatible machines, SDT process-resistant and ultra-harsh process-compatible machines ²) Values without N₂ purge
³) Approximate value of power consumption in attainable operation ⁴) Package dimensions. Please contact us for further details.
 Specifications and model names are subject to change without prior notice. Please contact us for information on compatible gases.

Kashiya Dry Pumps



MU-XE Series

ECO

Power Consumption 0.25kW
Extremely Small Footprint

2 Remarkable Solutions

- World's No.1 energy-saving performance has evolved even further
- World's No.1 in minimal footprint
- Compliant with SEMI, CE, and NRTL standards



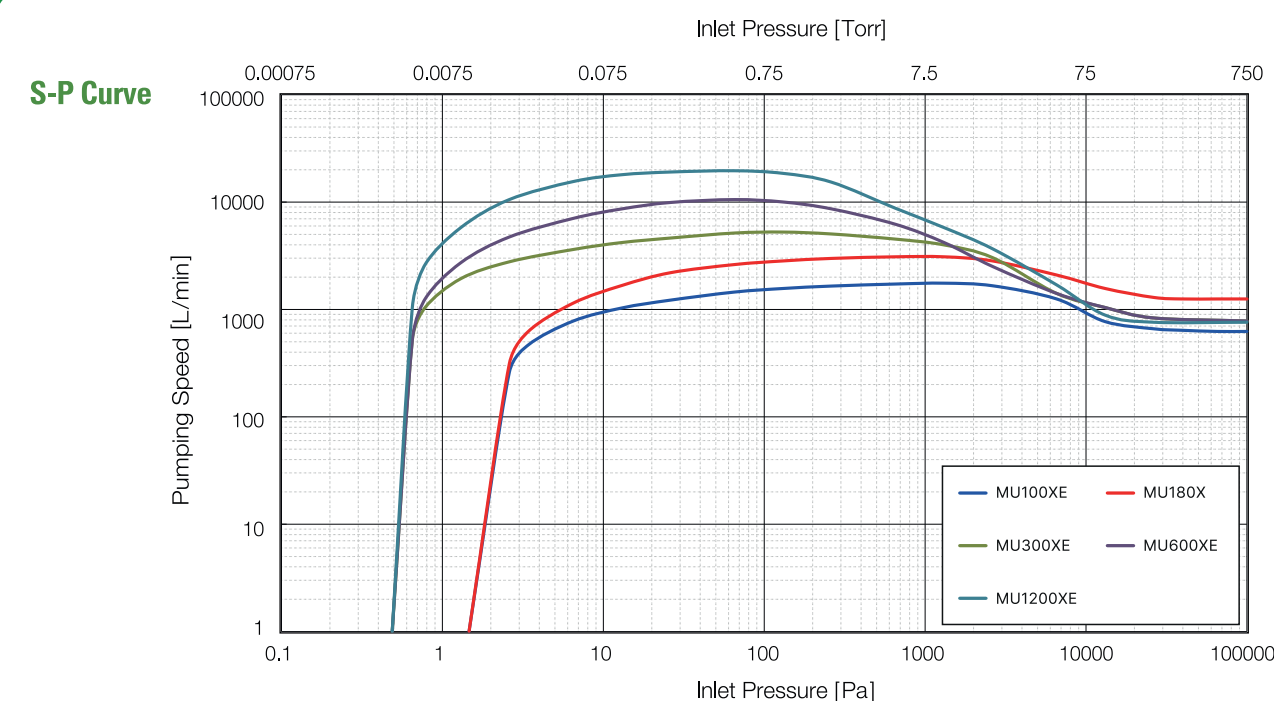
Major Products

Spec./Products		MU100XE	MU180X	MU300XE	MU600XE	MU1200XE
Max. Pumping Speed ^{*1} ^{*5}	L / min	1,660	3,000	5,000	10,000	20,000
Ultimate Pressure ^{*1}	Pa	1.5		0.5		
Supply Voltage (50/60)	Hz	3Phase AC200~220V ^{*2}				
Power Consumption ^{*3}	kW	0.25	0.5	0.45	0.5	0.6
Dimensions (L×W×H) ^{*4}	mm	450 × 230 × 275	550 × 280 × 299	450 × 230 × 520	530 × 230 × 520	625 × 275 × 580
Mass	kg	60	95	100	120	165

*1) Data without N2 purge. *2) Contact us for other voltage options. *3) Approx. value at ultimate pressure. *4) Package size.

*5) The maximum pumping speed is and approximate value. *Contact us about large capacity pumps.

Kashiyama Dry Pumps MU-XE SERIES Ver 1.0/16.1



* Contact us about international standard compliance. Spec. & name of products are subject to change without prior notice.

NeoDry-E Series ECO

Handy & Cooling Air Type pump
Energy Saving Pumps / Total Vacuum Solution

NeoDry-E SERIES Ver 6.0/16.1 Small Air-cooled DP 250~5,000 ℓ /min

- Maintenance cycle : Once in 3 years ! (Approx.when Air/N2 is used)
- No Oil smoke, No chamber contamination !
- No Tip-seal replacement, No Performance, No Particles !
- Hassle free to replace rotary/scroll pumps !
- Condensation-prone gas, like water vapor or solvent, available !
- By virtue of inverter, frequency does not affect to performance !
- Low Noise, Low Vibration !

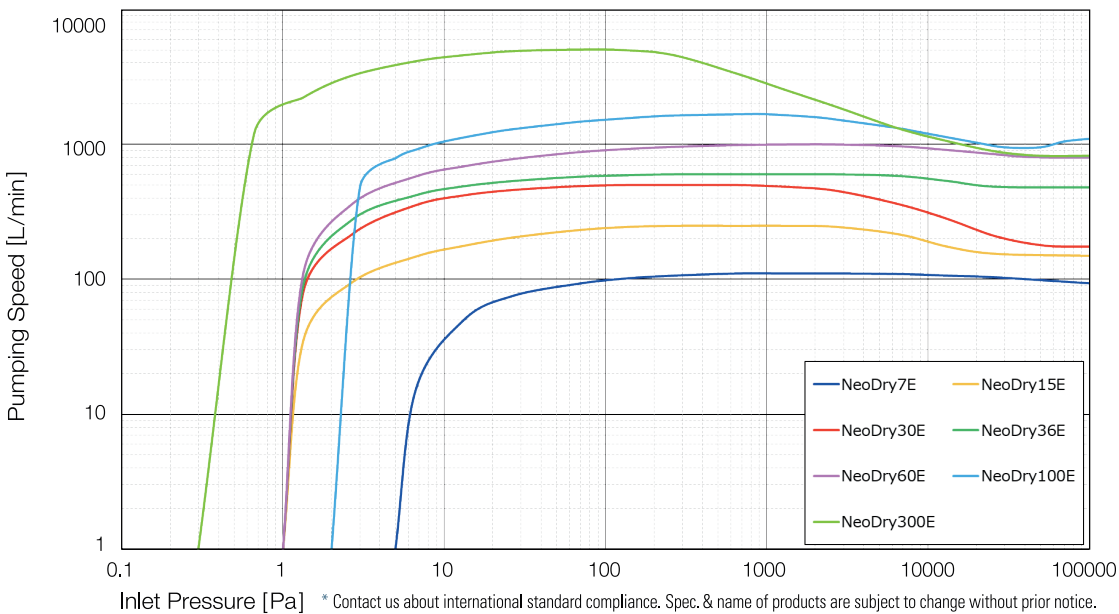
Major Products

Spec./Products		NeoDry7E	NeoDry15E	NeoDry30E	NeoDry36E	NeoDry60E	NeoDry100E	NeoDry300E
Max. Pumping Speed	L/min	110	250	500	600	1,000	1,670	5,000
Ultimate Pressure (Without Gas Ballast)	Pa	5.0	1.0				2.0	0.3
Supply Voltage(50/60) *1		Single Phase, AC100~120V Single Phase, AC200~240V	Single phase,AC100~120V/Single phase, AC200~240V 3 phase, AC200~240V			Single phase, AC200~240V 3 phase, AC200~240V		
Gas Ballast Mechanism		Optional (N2 available)					Standard accessory	
Max Allowable Moisture	g/h	120	250		350	600		
Noise	dB(A)	56			58	60	55	72
Vibration	μmp-p	8						15
Mass	kg	19	23	25	54	56	88	125
Inlet size		NW25		NW40				NW50
Outlet size		NW25						
Dimensions(LxWxH)*2	mm	360×196×219	385×210×250	410×210×250	475×298×275	530×315×275	576×320×365	574×304×595

*1) Contact us for other voltage options. *2) Package size.
* Contact us about international standard compliance. Spec. & name of products are subject to change without prior notice.

Kashiyama Dry Pumps

S-P Curve



* Contact us about international standard compliance. Spec. & name of products are subject to change without prior notice.

NeoDry-G Series

LOW NOISE
LOW VIBRATION

Maintenance cycle : Once in 6 years !
(Approx.. when Air/ N₂ is used)

*Based on our track record off sales.

NeoDry-G SERIES Ver 6.0/16.1 Small Air-cooled DP 250~5,000ℓ /min

- Wide Voltage Range !
 - Switchable between 1ph 100V and 200V automatically.
- Quieter & Temperature Optimization !
 - Typically 45dB (50dB for 36G) at ultimate pressure.
 - Optimized pump temperature with fan control.
- Water vapor evacuation performance upgraded !
 - Gas ballast enables the vacuum of condensable gases and brings a 10% water vapor evacuation performance boost. (Except 36G)
- IEC Power Connector !
 - IEC connector adopted for your convenience.
- Meet Harmonic Standards !
 - Meeting European harmonic emission requirement.
- Serial Communication Port !
 - Available for data communication and speed control

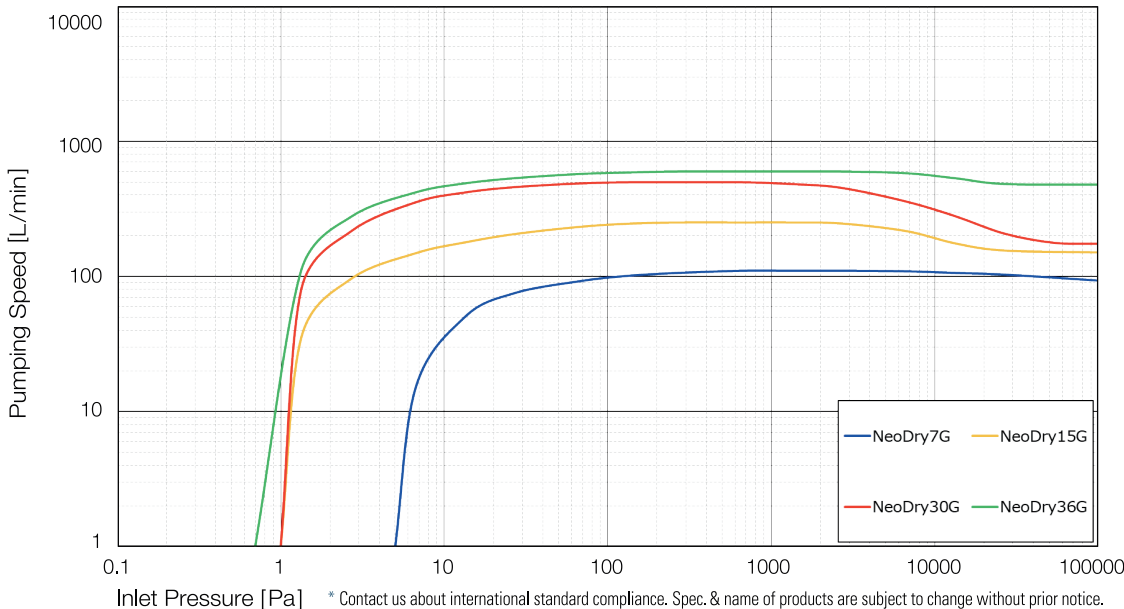
Major Products

Spec./Products		NeoDry7G	NeoDry15G	NeoDry30G	NeoDry36G
Max. Pumping Speed	L/min	110	250	500	600
Ultimate Pressure (Without Gas Ballast)	Pa	5.0	1.0		0.7
Supply Voltage(50/60)*1	Hz	Single Phase, AC100-240V			
Gas Ballast Mechanism		Option (N2 model is available)			
Max. Allowable Moisture	g/h	135	275		350
Noise	dB(A)	45			51
Vibration	μmp-p	4			
Mass	kg	19	22	24	51
Inlet Size		NW25		NW40	
Outlet Size		NW25			
Power Consumption at Ultimate Pressure	kW	0.28	0.34		0.55
Dimensions(LxWxH) *2	mm	360×196×196	385×210×219	410×210×219	475×298×260

^{*1)} Contact us for other voltage options. ^{*2)} Package size.
^{*} Contact us about international standard compliance. Spec. & name of products are subject to change without prior notice.

Kashiyama Dry Pumps

S-P Curve



^{*} Contact us about international standard compliance. Spec. & name of products are subject to change without prior notice.

MUP Series

HIGH QUALITY

High Performance

- Achieved further reduction in power consumption
- Inheritance and evolution of process durability
- One of the orld’s smallest footprints
- NEW appearance
- Compliant with SEMI/CE/NRTL standards



Enhanced process Durability and Improved Energy Efficiency

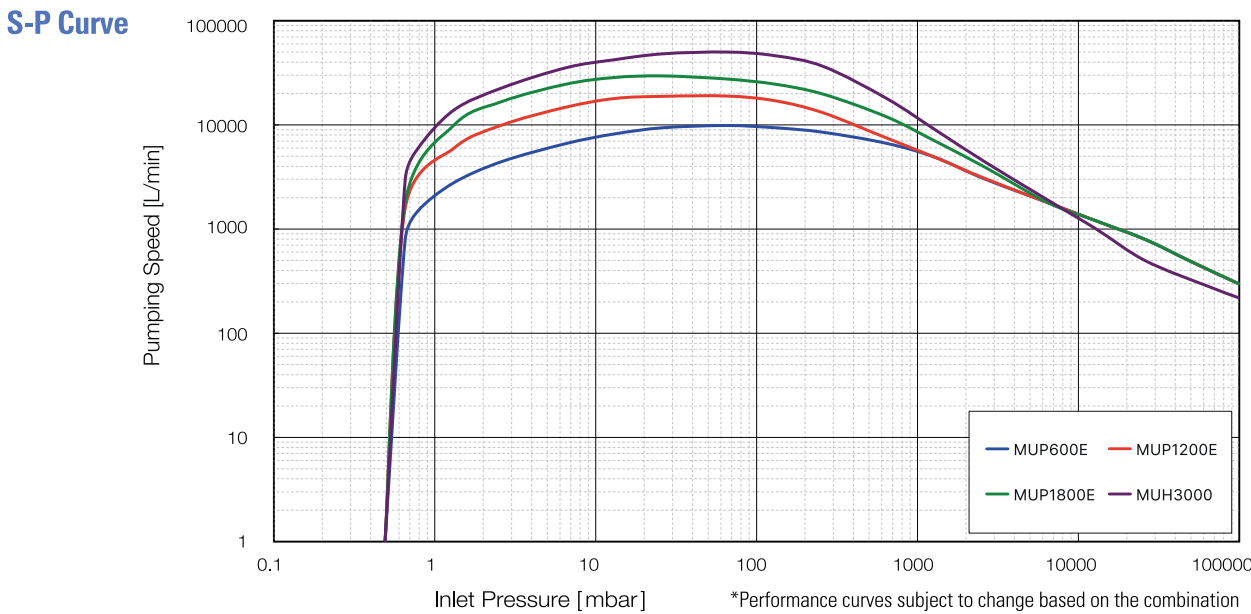
- **Srong / Saving**
Envolved process durability and energy-saving performance.
Achieved the world’s best power consumption in medium process, e.g., etching.
- **Small**
35% smaller footprint than the other 20,000 L/min pumps.
- **Safety**
Compliant product specifications for various standards.
(MUH does not support NRTL)

Major Products

Spec. / Product		MUP600E	MUP1200E	MUP1800E	MUH3000
Max. Pumping Speed *1 *4	L/min	10,000	19,000	30,000	50,000
Ultimate Pressure *1	Pa	0.5			
Supply Voltage (50/60)	Hz	3-phase AC200-220V *5			
N ₂ purge	SLM	0~45			0~60
Cooling Water	L/min	2.0			
Power Consumption *2	kW	0.9	0.95	1.2	1.6
Dimensions(LxWxH) *3	mm	695 x 285 x 655		850 x 380 x 950	910 x 420 x 900

*1) No heater specification,Values without N₂ purge *2) Approximate value of power consumption in attainable operation. *3) Package dimensions. Contact us for further details.
*4) Approximate Maximum exhaust speed. *5) If you have any requests other than this power supply, please consult with us separately.

Kashiya Dry Pumps



SDL Series

LARGE CAPACITY

Big Roots Rotor Type for Large Size Wafer & FPD High Throughput Dry Pump

- Available to large size wafer & FPD
Large capacity available by combination.
Larger than 150kL/min also available on demand.
- Shorter cycle-time
Large capacity around atm. pressure can achieve
high speed pumping best for large L/L chamber.
Pumps for solvent evacuation are also lined-up

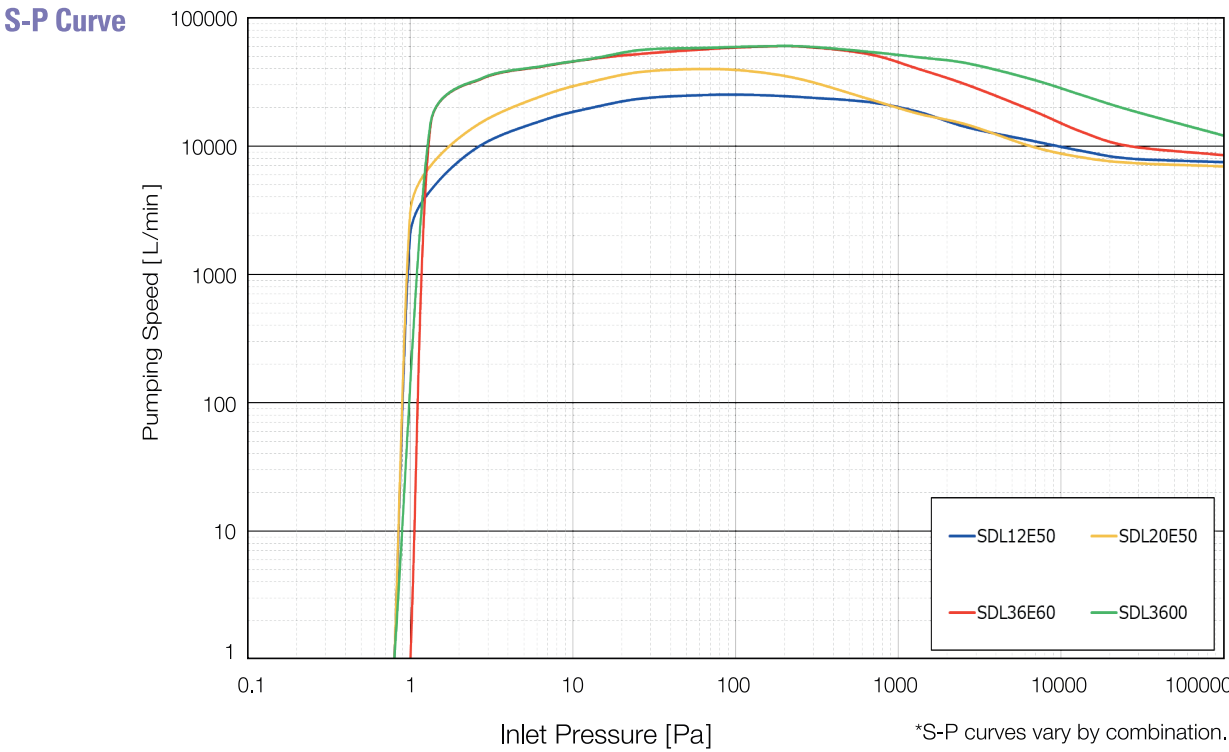


Major Products

Spec./ Products		SDL12E50	SDL20E50	SDL36E60	SDL3600
Max. Pumping Speed *1	L/min	25,000	40,000	60,000	60,000
Ultimate Pressure *1	Pa	0.8		1.0	0.8
N ₂ purge	SLM	0~50		0~120	
Power Supply		3 Phase, AC200 ~ 220V, AC380 ~ 440V(50/60Hz) Max. Fluctuation ±10%			
Cooling Water	L/min	6.0		8.0	
Dimensions(LxWxH)	mm	1,000x520x1,050	1,250x515x1,150	1,370x600x1,295	1,370x600x1,295

*1) Without N2 purge.
*Contact us about international standard compliance. Spec. & name of products are subject to change without prior notice.

Kashiyama Dry Pumps SDL SERIES Ver 4.0/16.1



Global Network of Kashiwama



More office information in Korea

Associated Company Sales / Service Office



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Kashiyama K Tech Vacuum Technology

We lead a new future by constantly researching and developing sustainable technologies.

