

SEMICONDUCTOR & FPD/SOLAR & GENERAL INDUSTRY APPLICATIONS

XD/RD/HD/DD/LD/GHD Series

Leader Of Vacuum Technology



THE BEST PARTNER FOR
YOUR SUCCESS

lotvacuum
Leader Of Vacuum Technology

Message

It is my pleasure to welcome you to LOT Vacuum.

I am very glad to have the opportunity to greet our global customers and shareholders. We are truly grateful for the confidence you have placed in our products and services.

Having purchased the dry vacuum pump division of Leybold Vacuum Germany in 2002, LOT Vacuum was founded with the vision of supplying our products to the global semiconductor and display industries.

We have accomplished this vision in our 1st business leap by introducing 5 new series of dry screw pumps, installing over 8,500 units, and establishing LOT Vacuum as the leading dry screw vacuum pump supplier to the semiconductor and display industries.

Our accumulated technology development and expertise made us to prepare our 2nd leap. Since 2013, LOT Vacuum has been aggressively moving forward into the global market. We are combining our development, manufacturing, sales and customer service experience with strategic global alliances to enter new geographic markets. Additionally, we are launching our next generation products into the display, semiconductor, industrial, and general vacuum markets.

Through the constant innovation, we are creating an excellent foundation to mature and become a truly global vacuum solution company. We are continuously and aggressively making investments to prepare for future markets and are developing flexibility to respond to the demands of a rapidly changing market.

By taking this 2nd leap, LOT Vacuum will supply critical value to our customers and higher returns to our shareholders.

Again, we are grateful to all those who support LOT Vacuum with their investment capital, counsel, and expertise. We ask your continual support as we develop the vacuum technology and products that bring the highest level of competitiveness into the global market.

To your success in 2018,
CEO, **Hank Oh**

반갑습니다. 환영합니다.

이 자리를 빌어 (주)엘오티베쿰을 아껴주시는 고객 여러분께 인사를 드리게 되어 매우 기쁘게 생각합니다.

(주)엘오티베쿰은 대한민국 반도체 및 Display산업의 기반기술 확보라는 가치 아래 설립하였으며, 150년의 역사와 전통을 자랑하는 독일의 Leybold Vacuum사로부터 진공 Dry Pump 사업부문을 인수하면서 그동안 축적된 모든 기술과 노하우에 대한 사업제휴를 통하여 첫 걸음을 내디뎠습니다.

여러분께 생소하실지 모르지만 에디슨이 백열전구를 발명 할 때 진공펌프가 없었으면 불가능 했을 것입니다.

아주 오래 전부터 진공은 우리 생활주변에서 쉽게 접하고 만나실 수 있습니다.

(주)엘오티베쿰은 특화된 기술력으로 많은 산업현장이나 작업공정에 필수적으로 사용되는 진공펌프를 개발, 제조, 판매, A/S까지 전 영역에 걸쳐 서비스를 하고 있으며 세계 유수의 기업들과 경쟁하는 국내 유일의 진공기업입니다.

급변하는 시장의 요구에 대한 탄력적인 대응과 미래의 시장에 대한 한 발 앞선 대비를 위하여 지속적이고 공격적인 투자가 진행되고 있으며 다양한 고객의 Needs를 반영한 당사의 차세대 제품이 시장에 출시되고 있습니다. 특히 기존의 매출의 상당부분을 차지하였던 반도체용 진공펌프 외에 Display, 태양광, LED 및 일반산업용 진공펌프를 개발하여 매출을 실현하고 있으며, 제 2의 도약을 위해 끊임없는 전사혁신활동을 통해 한 단계 성숙할 수 있는 토대를 만들고 있습니다.

(주)엘오티베쿰의 발전을 위하여 물심양면으로 성원해주시는 여러분께 다시한번 깊은 감사의 말씀을 드리며, 전 세계시장에서 최고의 경쟁력을 갖춘 진공기업으로 부상할 수 있도록 앞으로도 지속적인 관심과 격려 부탁드립니다.

감사합니다.

(주)엘오티베쿰 대표이사 **오 흥 식**



Customer Satisfaction

Leading The Best Tech & Quality

Receiving Credits From Customers

Milestones

- 
- 2002. Mar. Business Registration of LOT Vacuum Co., Ltd.
Jul. Established LOT Vacuum Co., Ltd.
Dec. Relocated Leybold Pittsburg production line in US to Korea (Cheonan)
 - 2003. Jan. DuraDry No.1 at Cheonan Plant, delivered 16 units to Samsung Electronics for the first time
Mar. Established affiliated technology research center
Jun. Acquired Quality Management Certification (ISO 9001:2000)
Nov. Completed implementation of ERP system
 - 2004. Jan. Completed implementation of ERP system
Mar. Designated as venture business by Small & Medium Business Administration (R&D Corporation)
Oct. Patent Application (Dry Vacuum Pump, etc.)
Dec. Relocated affiliated technology research center (Ansung)
 - 2005. Jan. Acquired Environment Management System (ISO 14001:1996)
Feb. Acquired CE Certificate Mark (Dry Vacuum Pump)
Mar. Acquired Excellent Quality Certificate EM
Oct. Listed on Kosdaq
Nov. Relocated head office building (Cheonan → Ansung)
 - 2006. Feb. Established US branch office (Austin, Texas)
Aug. Established Hwaseong Service Center
 - 2007. Apr. Entered into OEM contract with Leybold Vacuum(Germany)
Aug. Entered solar cell market (Exported to Germany)
Sept. Won Minister of Science and Technology Award at Korea Semiconductor Technology Awards
Oct. Acquired Information Security Certification (ISO 27001)
Dec. Certified as a Technology Innovation Small & Medium Business (INNO-BIZ)
Dec. Awarded the Presidential Citation at the New Technology Commercialization Promotion Competition
 - 2008. Feb. Patent Application (All-in-one vacuum generating device)
Feb. Received commendation from the Commissioner of Customs for Exemplary tax payment on Taxpayer's Day
Apr. Designated as excellent corporation for consignment trade by Gyeonggi Small & Medium Business Administration

Since establishment in 2002,
LOT has been trying to be a leader in Vacuum industry
worldwide developing new technologies and innovation.

- 2009. Dec. Awarded 10 Million Dollar Export Tower on Trade Day
- Apr. Registered trademark (EcoSL, EcoScrew)
- Jul. Designated as a business practicing yielding negotiation for winwin approach between labor and management

- 2010. Jun. Designated as promising export small & medium business
- Dec. Awarded excellence award for 10 year joint growth (Samsung Electronics)

- 2011. Jun. Enhanced infrastructure through the re-implementation of BPR/ERP
- Nov. Designated as KB Hidden Star 500 by KB Bank
- Dec. Re-certified as Venture Business (Korea Technology Finance Corporation (KIBO))

- 2012. June. Designated as Compromise Trade Company of National Defense Industry.
- Aug. Designated as Advanced Technology Product by The Ministry of Knowledge Economy.
- Sep. Selected Excellent Enterprise for G-Labor and Management.
- Sep. Relocated R&D Center to The Silicon Park. (Anseong → Pangyo)
- Oct. Won Ministry of Knowledge and Economy Award at Korea Semiconductor Association. (R&D Center)

- 2013. Jan. Relocated and Built a Service Center. (Gyeonggi-do, Dongtan)
- May. Applied for an Europe Patent. (Roots & Screw Rotor)
- Sep. Established LOT China Branch. (Shaanxi, Xi'an)
- Nov. Designated as Excellent Enterprise to Work at Gyeonggi-do.
- Dec. Certificated by Safety and Health Management System. (KOSHA18001, OHSAS18001)

- 2014. May. Designated as World Class 300.

- 2015. Aug. Designated as World Class 300 Project R&D

- 2016. Jul. Designated as \$100Mil Venture Enterprise (Small and Middle Business Administration)
- Aug. Certificated as Excellent Enterprise for labor and management win-win approach
- Nov. Awarded the Entrepreneur of the Year Award (CEO, Hank Oh)

- 2017. Oct. Awarded the Prime Minister Award - Industry Field (CEO, Jeff Kim)
- Dec. Awarded the Presidential Award - Industry Field (CEO, Hank Oh)

- 2018. Jun. Selected for a government project of Smart Factory
- Jul. Established LOT Vietnam Branch
- Oct. Established LOT China Chengdu Branch

- 2019. Jun. Established Osan Headquarter with Opening Ceremony
- Oct. Awarded Ministry of Trade, Industry and Energy award-Semiconductor Field
- Nov. Established LOT China Changzhou Branch
- Dec. Awarded Leading Work Innovation Company award-Ministry of Employment and Labor

Leader of Vacuum Technology



Visions

LOT Vacuum

Be the world's best company pursuing the customer's satisfaction.

01

Lower Power
Consumption
Pump for Green
Environment

02

Global Market
Leadership

03

Component
Localization for
Cost Reduction

04

Total Solution
Provider for
Vacuum
Technology Market

Business Area

LOT Vacuum is selling Dry vacuum pumps and providing repair service.

DEVELOPMENT

- New Product Development
- New Technology Development
- Technical Government Joint Project

SALES

- World Wide Pump Sales
- Accessory Sales (Valve, Rack, Bellows, etc.)



MANUFACTURING

- Major Part Machining (Housing, Rotor)
- Product Manufacturing
- Quality Management

REPAIR

- Dura Dry Repair Service
- On-site Trouble Shooting
- Product Life Cycle Management

Patents

LOT Vacuum, a company leading innovative technology in Korea, has 24 Patents world wide. Focusing on Continuous Investment to R&D Group.



Certification

ISO9001 (Quality Management Certification)
ISO14001 (Environmental Management System)

ISO27001 (Information Security Management System)
KOSHA18001, OHSAS18001 (Safety and Health Management System)





Revolution²

Simple

Less complexity over conventional dry pumps

Reliable

Designed for the highest reliability standards

Low CoO Technology

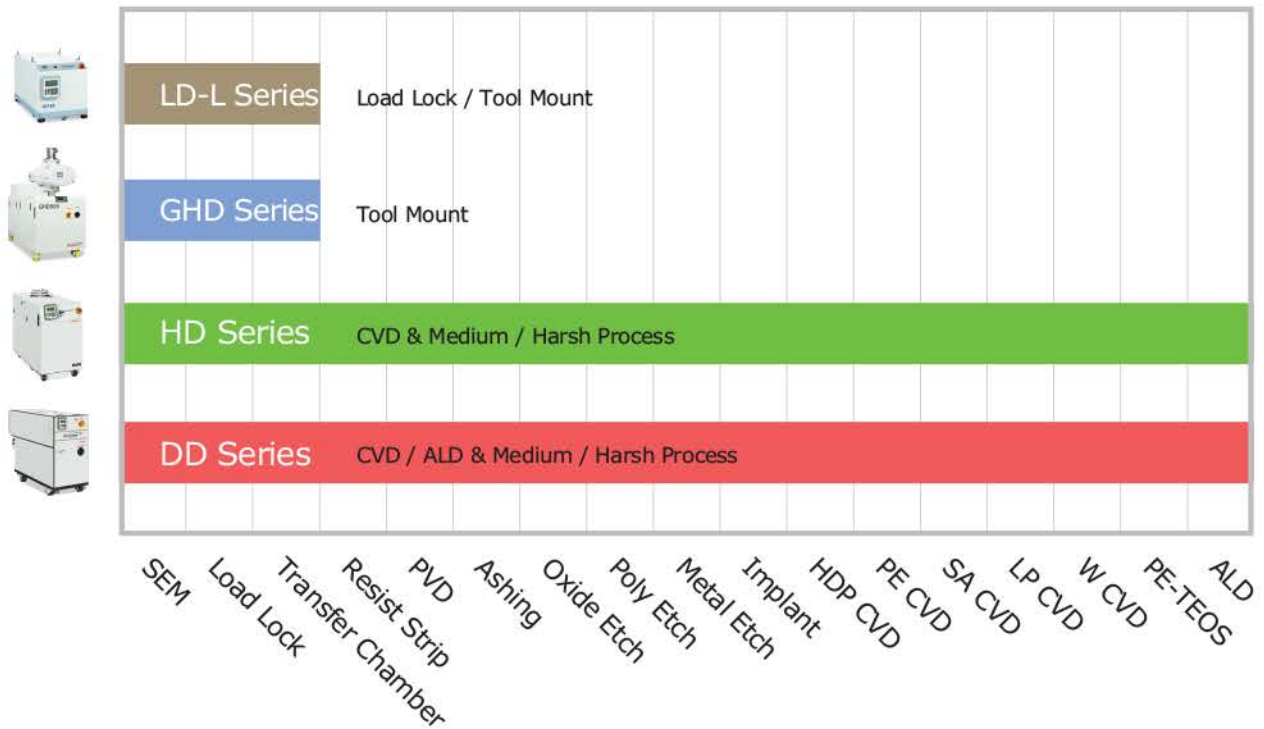
Extended service intervals in all semiconductor and display processes

Robust

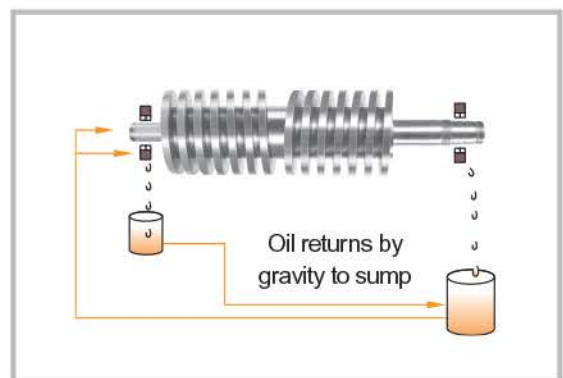
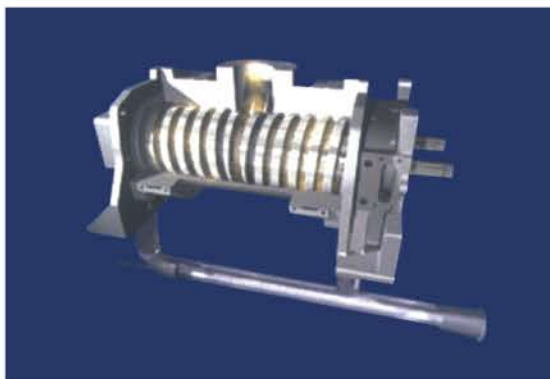
10 times stronger particle handling efficiency than conventional designs



Leader of Vacuum Technology for all Semiconductor and FPD/Solar Applications



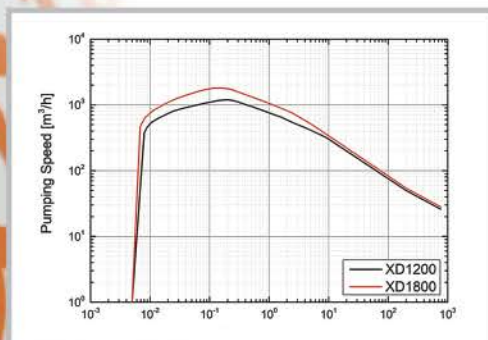
BENEFITS OF DURADRY SCREW TECHNOLOGY



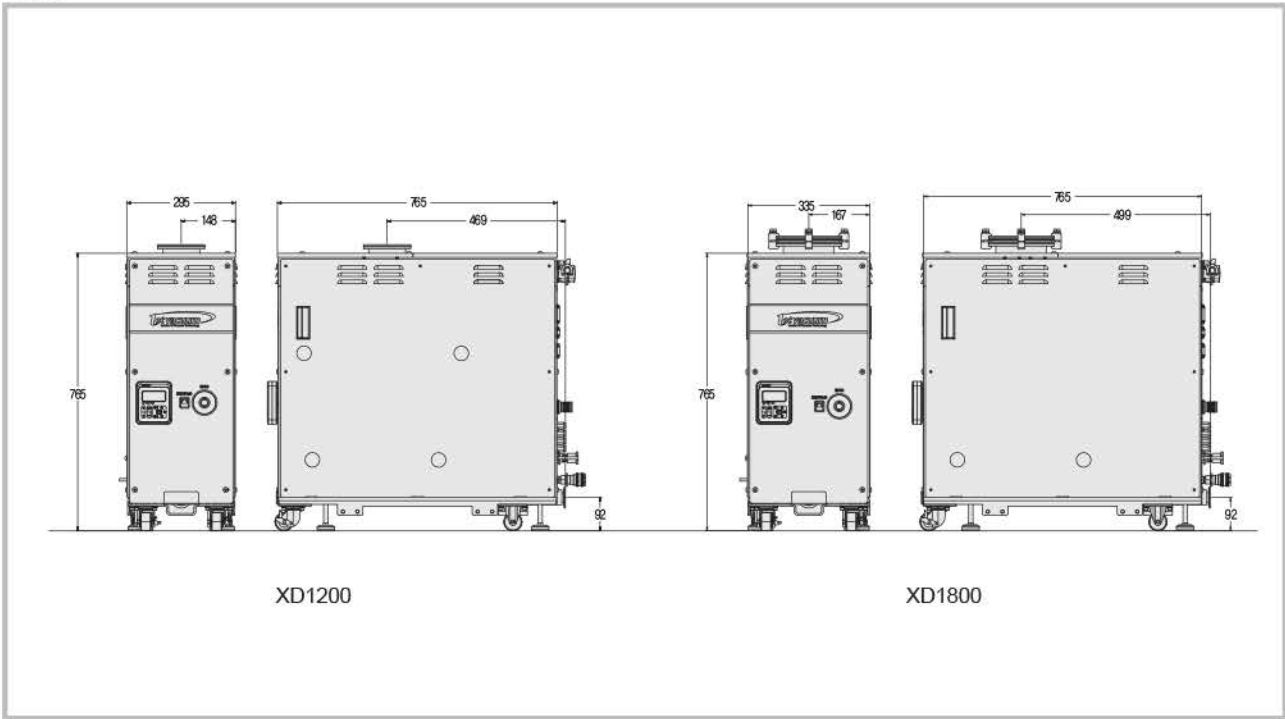
- Wide range of temperature control
- Simply supported bearings
- Piston ring shaft sealing mechanism
- Highest pumping speed
- Easy maintenance
- Increased reliability
- 30% reduction in CoO

- Short gas path
- Minimum particle deposition
- Oil-cooled rotors
- Oil lubricated bearings
- Longer bearing lifetime

XD Series



PLAN



TECHNICAL DATA

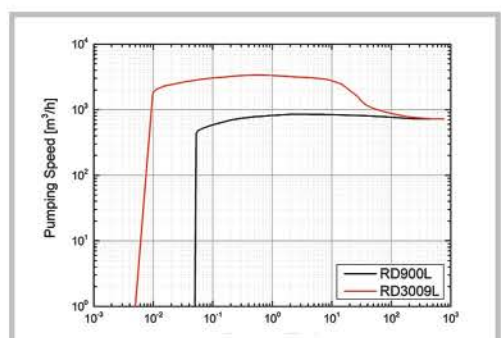
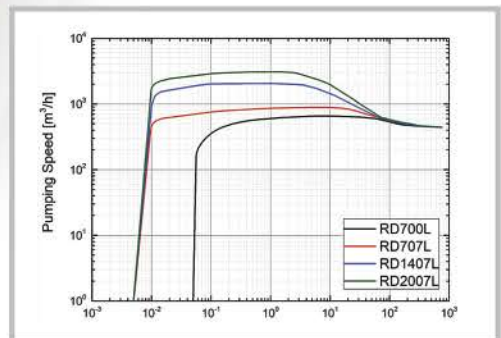
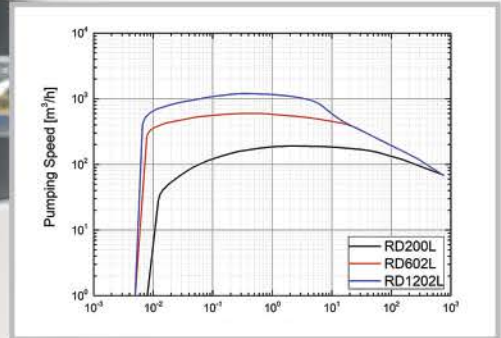
	Unit	XD1200	XD1800
Pumping speed	m ³ /hr	1,200	1,800
	ℓ /min	20,000	30,000
Ultimate pressure with module purge	Torr	≤ 5.0×10 ⁻³	
	Pa	≤ 6.6×10 ⁻¹	
Maximum exhaust pressure	bar (psig)	1.5 (7.2)	
Nitrogen supply pressure	bar (psig)	4 ~ 8 (43 ~ 100)	
Internal purge-gas pressure	bar (psig)	3 (29)	
Nitrogen consumption (ETCH)	slm	30	50
Nitrogen consumption (CVD)	slm	30	50
Nitrogen connection	inch	1/4" Lok Fitting	
Cooling water consumption	ℓ /min	2 ~ 11.4	
Cooling water supply temp	°C (°F)	15 ~ 25 (59 ~ 77)	
Cooling water supply pressure (with ΔP≥1bar)	bar (psig)	3.5 ~ 6 (36 ~ 73)	
Cooling water connection	inch	3/8" Quick Connector	
Intake port	mm	DN 100 ISO-K	DN 160 ISO-K
Exhaust port	mm	NW25	
Dimension (W×L×H)	mm ³	295×765×765	335×765×765
Weight	kg (lbs)	273	248
Maximum ambient temperature	°C (°F)	40 (104)	
Minimum ambient temperature	°C (°F)	10 (50)	
Power consumption at ultimate pressure (DP+BP)	kW	1.4	2.0
Rated motor power (DP+BP)	kW	7.0	7.0
Supply voltage-Multi-Voltage motor	V/∅/Hz	200~230, 380~480V (±10%) / 3∅ / 60Hz 200~230, 380~460V (±5%) / 3∅ / 50Hz	
Oil charge volume (DP+BP)	ℓ	1.99	1.65

※ Option 설정 가능 - power consumption은 평균값

※ Option can be set, power consumption → average

※ Ultimate pressure with module purge - based on normal concept, varies by each temperature concept

RD Series



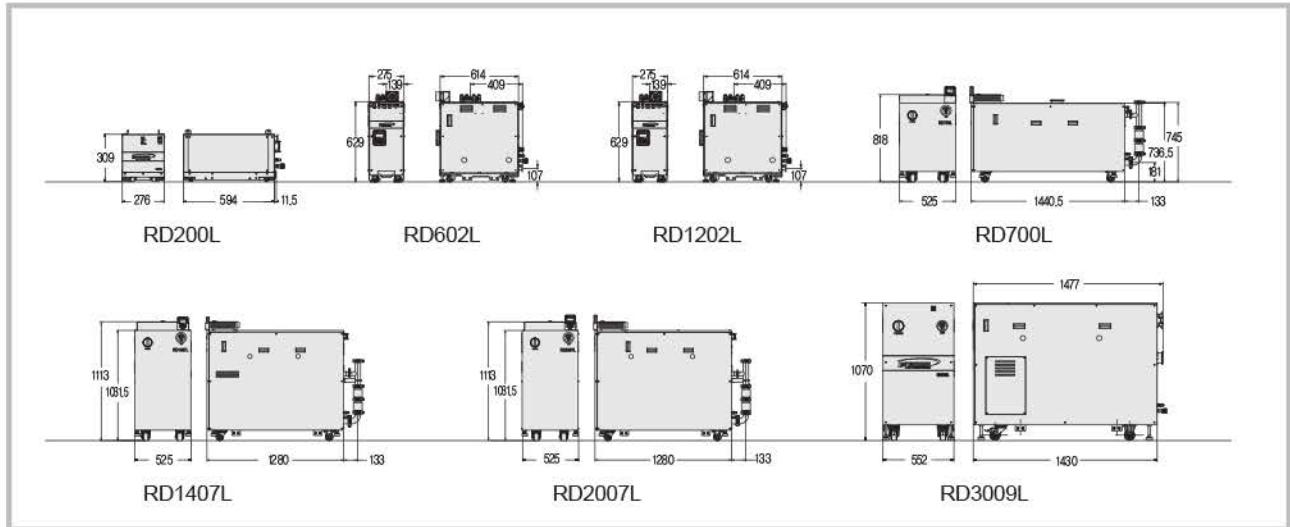
The Perfect Solutions
for Your Application

FEATURES

- Multi-Stage Roots Type
- Large-Volume LoadLock Model for FPD/Solar Business
- High Exhausting Speed in Atm. Zone
 - Improved Tact time and Throughput
- Low Cost of Ownership
 - N₂, Power, Water, Footprint, Volume, Weight
- Designed for Less Noise and Less Vibration



PLAN

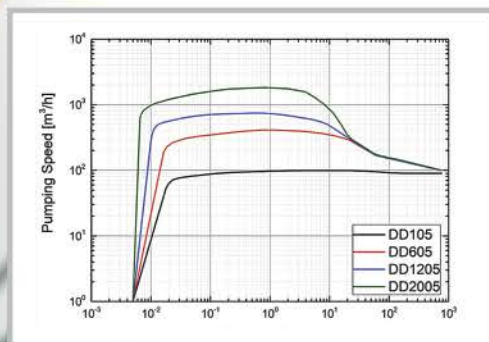


TECHNICAL DATA

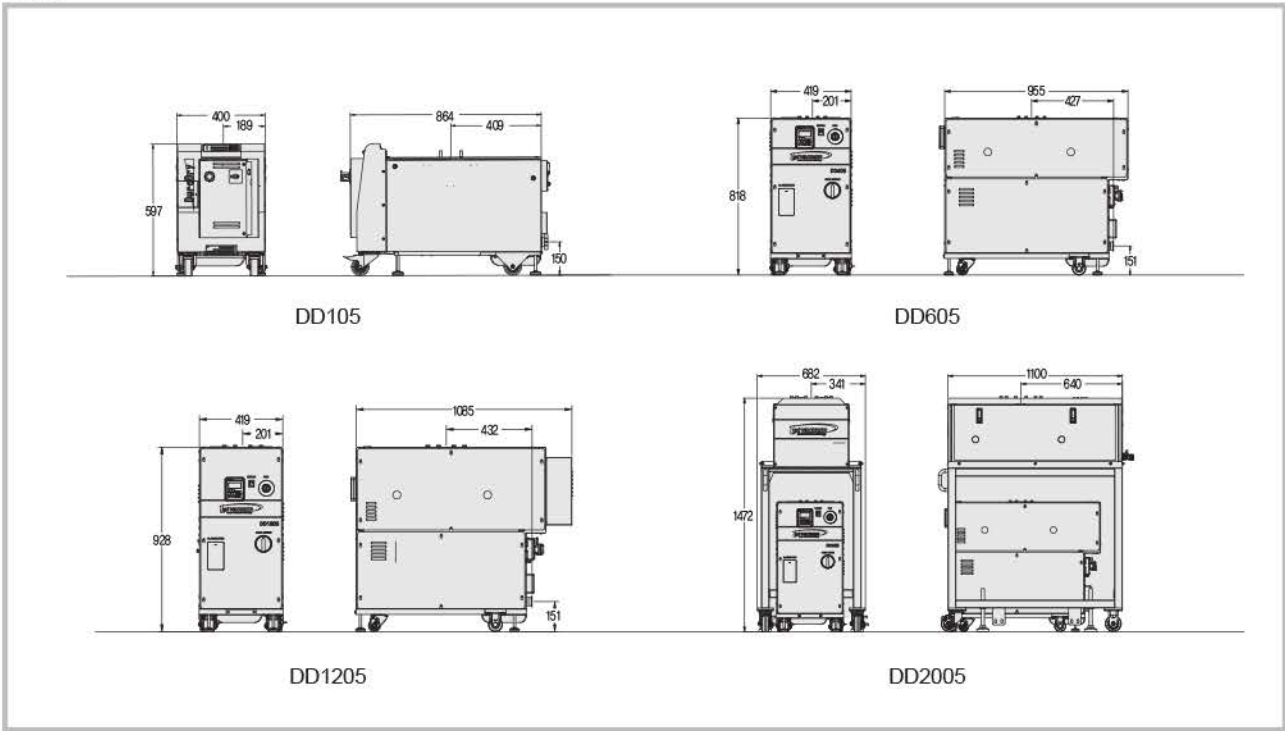
	Unit	RD200L	RD602L	RD1202L	RD700L	RD707L	RD1407L	RD2007L	RD3009L	
Pumping speed	m ³ /hr	190	600	1,100	650	900	2,000	3,000	3,600	
	ℓ /min	3,100	10,000	18,000	11,000	15,000	33,000	50,000	60,000	
Ultimate pressure	Torr	≤ 8.0×10 ⁻³	≤ 5.0×10 ⁻³	≤ 5.0×10 ⁻²	≤ 5.0×10 ⁻³					
	Pa	≤ 1.0×10 ⁺⁰	≤ 6.6×10 ⁻¹	≤ 6.6×10 ⁺⁰	≤ 6.6×10 ⁻¹					
Maximum exhaust pressure	bar (psig)	1.5 (7.2)								
Nitrogen supply pressure (Option)	bar (psig)	-								
Internal purge-gas pressure (Option)	bar (psig)	-								
Nitrogen consumption (ETCH)(Option)	slm	-								
Nitrogen consumption (CVD)(Option)	slm	-								
Nitrogen connection (Option)	inch	-								
Cooling water consumption	ℓ /min	≥ 3			≥ 6					
Cooling water supply temp	°C (°F)	15 ~ 25 (59 ~ 77)								
Cooling water supply pressure (with ΔP≥1bar)	bar (psig)	3.5 ~ 9 (36 ~ 73)								
Cooling water connection	inch	1/4" Quick Connector			3/8" Quick Connector					
Intake port	mm	50 ISO-K	100 ISO-K			160 ISO-F	200 ISO-F	250 ISO-F		
Exhaust port	mm	25 ISO-KF	40 ISO-KF	50 ISO-KF			63 ISO-K			
Dimension (W×L×H)	mm ³	276×594×308	277×614×628	525×1,440×818		525×1,280×1,113		552×1,428×1,070		
Weight	kg (lbs)	95 (209)	165 (364)	570 (1,257)		700 (1,543)	810 (1,786)	850 (1,874)	1,200 (2,645)	
Maximum ambient temperature	°C (°F)	40 (104)								
Minimum ambient temperature	°C (°F)	10 (50)								
Power consumption at ultimate pressure	kW	0.4	0.7	1.0	7.0	7.6	7.8	8.0	15.0	
Rated motor power	kW	3.0	6.0	15.0		19.0		44.0		
Supply voltage—Multi—Voltage motor	V/∅/Hz	220, 380, 440V / 3Phase / 50, 60Hz								
Oil charge volume	ℓ	0.28	0.55	2.70		3.60	4.50	5.10		

※ Process Version - Adding N₂ Purge

DD105 Series



PLAN



TECHNICAL DATA

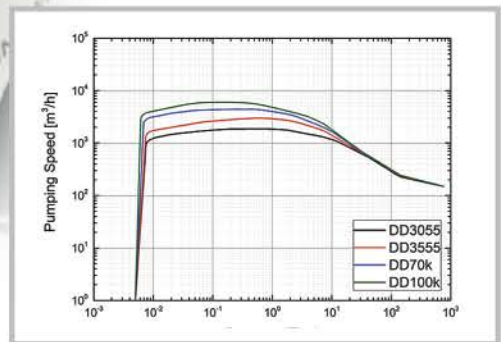
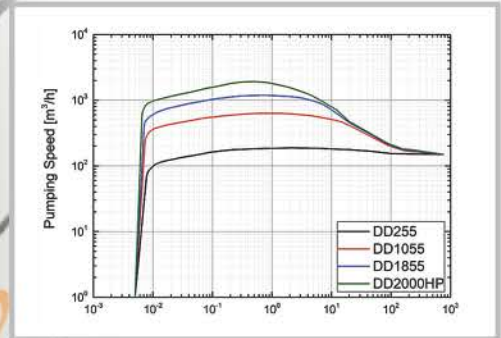
	Unit	DD105	DD605	DD1205	DD2005
Pumping speed	m ³ /hr	100	480	900	1,800
	ℓ /min	1,700	8,000	15,000	30,000
Ultimate pressure with module purge	Torr	≤ 5.0×10 ⁻³			
	Pa	≤ 6.6×10 ⁻¹			
Maximum exhaust pressure	bar (psig)	1.5 (7.2)			
Nitrogen supply pressure	bar (psig)	4 ~ 8 (43 ~ 100)			
Internal purge-gas pressure	bar (psig)	3 (29)			
Nitrogen consumption (ETCH)	slm	13			
Nitrogen consumption (CVD)	slm	50			
Nitrogen connection	inch	1/4" Lok Fitting			
Cooling water consumption	ℓ /min	1.8 ~ 7.6			
Cooling water supply temp	°C (°F)	15 ~ 30 (59 ~ 86)			
Cooling water supply pressure (with ΔP≥1bar)	bar (psig)	3.5 ~ 9 (36 ~ 116)			
Cooling water connection	inch	3/8" Lok Fitting			
Intake port	mm	DN 63 ISO-K	DN 100 ISO-K	DN 160 ISO-K	DN 200 ISO-K
Exhaust port	mm	DN 40 KF			
Dimension (W×L×H)	mm ³	400×864×597	419×955×818	419×1,085×928	682×1,100×1,472
Weight	kg (lbs)	278 (613)	435 (959)	578 (1,274)	965 (2,127)
Maximum ambient temperature	°C (°F)	40 (104)			
Minimum ambient temperature	°C (°F)	10 (50)			
Power consumption at ultimate pressure (DP+BP)	kW	5.0	5.4	5.6	6.1
Rated motor power (DP+BP)	kW	5.0	7.0	9.0	14.0
Supply voltage-Multi-Voltage motor	V/∅/Hz	200, 208, 230, 460, 480V (±10%) / 3∅ / 60Hz 200, 208, 380, 415V (±5%) / 3∅ / 50Hz			
Oil charge volume (DP+BP)	ℓ	1.10	1.90	2.80	3.70

※ Option 설정 가능 - power consumption은 평균값

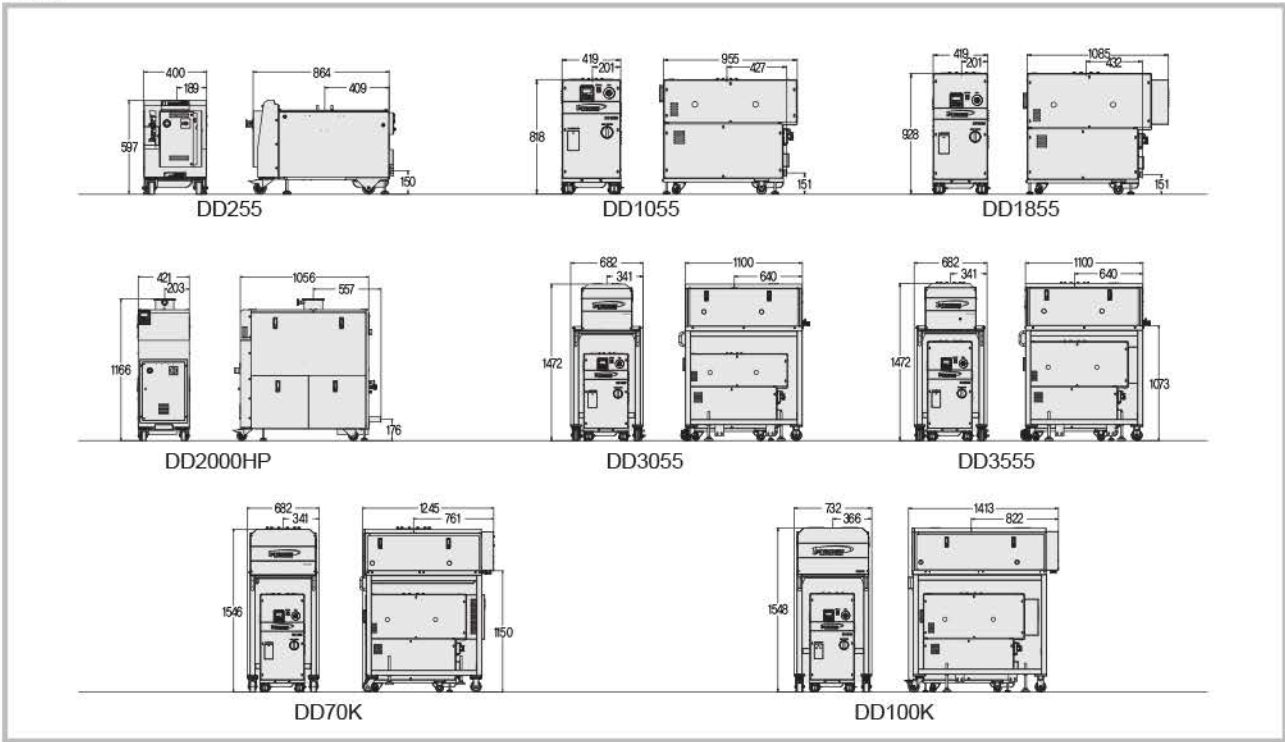
※ Option can be set, power consumption → average

※ Ultimate pressure with module purge - based on normal concept, varies by each temperature concept

DD255 Series



PLAN



TECHNICAL DATA

	Unit	DD255	DD1055	DD1855	DD2000HP	DD3055	DD3555	DD70K	DD100K
Pumping speed	m ³ /hr	200	600	1,200	1,800	1,800	3,000	4,250	6,000
	ℓ/min	3,400	10,000	20,000	30,000	30,000	50,000	70,000	100,000
Ultimate pressure with module purge	Torr	≤ 5.0×10 ⁻³							
	Pa	≤ 6.6×10 ⁻¹							
Maximum exhaust pressure	bar (psig)	1.5 (7.2)							
Nitrogen supply pressure	bar (psig)	4 ~ 8 (43 ~ 100)							
Internal purge-gas pressure	bar (psig)	3 (29)							
Nitrogen consumption (ETCH)	slm	13							
Nitrogen consumption (CVD)	slm	50							
Nitrogen connection	inch	1/4" Lok Fitting							
Cooling water consumption	ℓ/min	1.8 ~ 7.6							
Cooling water supply temp	°C (°F)	15 ~ 30 (59 ~ 86)							
Cooling water supply pressure (with ΔP≥1bar)	bar (psig)	3.5 ~ 9 (36 ~ 116)							
Cooling water connection	inch	3/8" Lok Fitting							
Intake port	mm	DN 63 ISO-K	DN 100 ISO-K	DN 160 ISO-K	DN 200 ISO-K	DN 250 ISO-K	DN 320 ISO-K		
Exhaust port	mm	DN 40 KF							
Dimension (W×L×H)	mm ³	400×864×597	419×955×818	419×1,085×928	421×1,066×1,166	682×1,100×1,472	682×1,100×1,472	682×1,245×1,546	732×1,413×1,548
Weight	kg (lbs)	278 (613)	435 (959)	577 (1,272)	612 (1,349)	870 (1,918)	1,012 (2,231)	1,357 (2,992)	1,457 (3,212)
Maximum ambient temperature	°C (°F)	40 (104)							
Minimum ambient temperature	°C (°F)	10 (50)							
Power consumption at ultimate pressure (DP+BP)	kW	5.0	5.3	5.5	5.8	6.0	6.2	7.0	7.2
Rated motor power (DP+BP)	kW	5.0	7.0	9.0	14.0	16.0	20.0		
Supply voltage-Multi-Voltage motor	V/∅/Hz	200, 208, 230, 460, 480V (±10%) / 3∅ / 60Hz 200, 208, 380, 415V (±5%) / 3∅ / 50Hz							
Oil charge volume (DP+BP)	ℓ	1.10	1.90	2.80	3.70	4.60	6.80		

※ Option 설정 가능 - power consumption은 평균값

※ Option can be set, power consumption → average

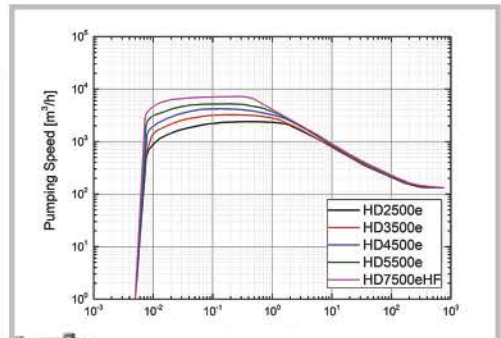
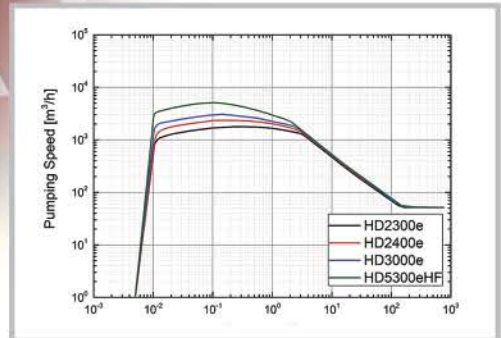
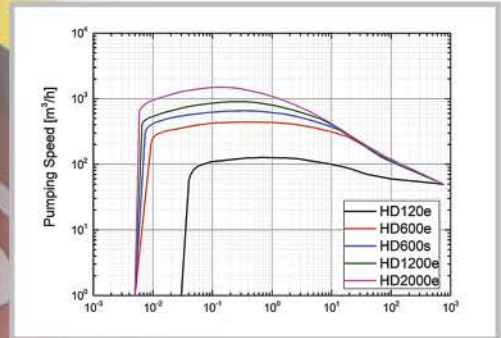
※ Ultimate pressure with module purge - based on normal concept, varies by each temperature concept

HD Series

EMO

KEYPAD

EMO



FEATURES

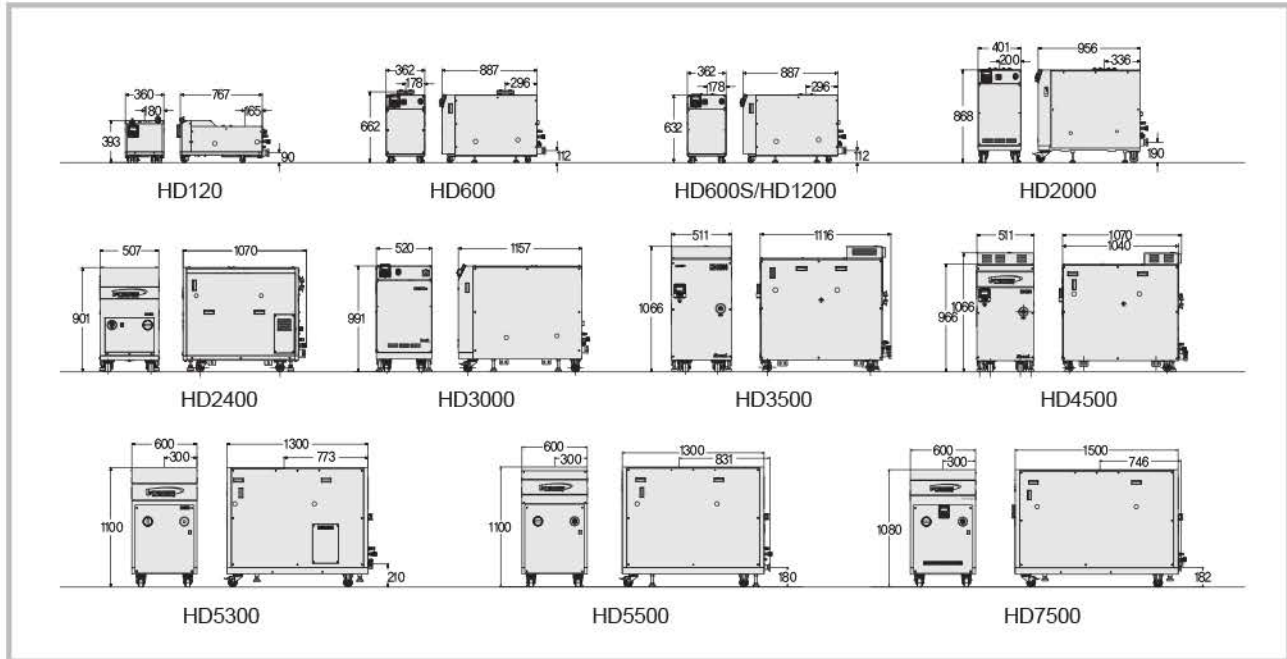
HYBRID SCREW ROTOR

- Easy Powder Handling
- Low compression ratio = Low gas temperature = Low deposition in pump

SHORT GAS PATH

- Low reaction rate in pump
- COMPACT SIZE / ENERGY SAVING

PLAN



TECHNICAL DATA

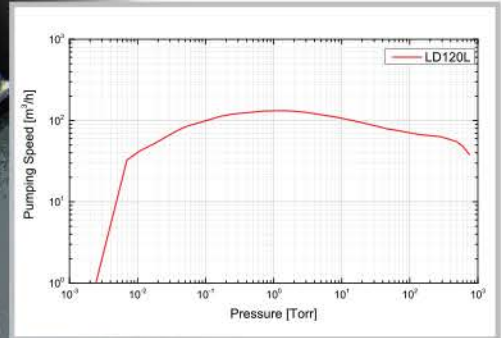
	Unit	HD120 HD120e	HD600 HD600e	HD600S HD600eS	HD1200 HD1200e	HD2000 HD2000e	HD2300e	HD2400e	HD3000e	HD5300e	HD2500e	HD3500e	HD4500e	HD5500e	HD7500e	
Pumping speed	m ³ /hr	120	450	600	1,200	1,800	1,800	2,400	3,000	5,100	2,400	3,200	4,200	5,200	7,200	
	ℓ/min	2,000	7,500	10,000	20,000	30,000	30,000	40,000	50,000	85,000	40,000	53,000	70,000	86,000	125,000	
Ultimate pressure with module purge	Torr	≤ 3.0 × 10 ⁻⁴			< 5.0 × 10 ⁻³											
	Pa	≤ 3.9 × 10 ⁻⁶			< 6.6 × 10 ⁻¹											
Maximum exhaust pressure	bar (psig)									1.5 (7.2)						
Nitrogen supply pressure	bar (psig)									4 ~ 8 (43 ~ 100)						
Internal purge-gas pressure	bar (psig)									3 (29)						
Nitrogen consumption (ETCH)	slm	-														
Nitrogen consumption (CVD)	slm	50											100			
Nitrogen connection	inch									1/4" Lok Fitting						
Cooling water consumption	ℓ/min									2 ~ 11.4						
Cooling water supply temp	°C (°F)									15 ~ 25 (59 ~ 77)						
Cooling water supply pressure (with ΔP≥1bar)	bar (psig)									3.5 ~ 6 (36 ~ 73)						
Cooling water connection	inch	3/8" Quick Connector														
Intake port	mm	DN 63 KF		DN 100 ISO-K		DN 160 ISO-K		DN 200 ISO-K		DN 250 ISO-K		DN 200 ISO-K		DN 250 ISO-K		
Exhaust port	mm	DN 40 KF / DN 50 KF														
Dimension (W×L×H)	mm ³	360×767×393	362×887×662	362×887×632		401×856×668	510×1,157×992	507×999×992	520×1,157×992	600×1,300×1,100	517×1,040×1,065	510×1,040×1,065	511×1,040×1,066	600×1,300×1,100	600×1,500×1,080	
Weight	kg (lbs)	160 (353)	317 (699)	300 (661)		500 (1,102)	590 (1,301)	660 (1,433)	750 (1,653)	1,200 (2,645)	715 (1,576)	816 (1,803)	912 (2,011)	1,200 (2,645)	1,400 (3,086)	
Maximum ambient temperature	°C (°F)	40 (104)														
Minimum ambient temperature	°C (°F)	10 (50)														
Power consumption at ultimate pressure (DP+BP)	kW	2.6 / 2.3	3.3 / 3.0	2.8 / 2.5	2.9 / 2.6	3.3 / 2.9	3.1	3.2	3.3	4.0	6.3	6.3	6.8	8.0		
Rated motor power (DP+BP)	kW	4.0	6.6	8.0			9.0			16.0	14.0	17.0	21.0			
Supply voltage-Multi-Voltage motor	V/∅/Hz	200~230, 380~480V (±10%) / 3∅ / 60Hz 200~230, 380~460V (±5%) / 3∅ / 50Hz						200~230V / 3∅ / 50, 60Hz 380~460V / 3∅ / 50, 60 Hz								
Oil charge volume (DP+BP)	ℓ	0.39	1.19	1.29		2.20	2.20			4.49	3.32	3.92	5.32	5.50		

* Option 설정 가능 - power consumption은 평균값

* Option can be set, power consumption → average

* Ultimate pressure with module purge - based on normal concept, varies by each temperature concept

LD Series



FEATURES

HYBRID SCREW ROTOR

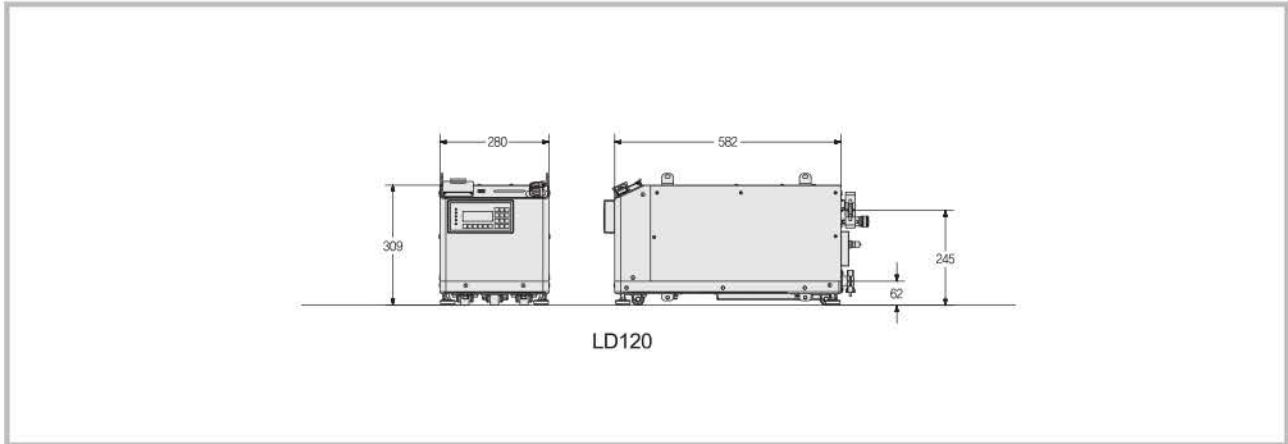
- Easy Powder Handling
- Low compression ratio = Low gas temperature = Low deposition in pump

SHORT GAS PATH

- Low reaction rate in pump

COMPACT SIZE / ENERGY SAVING

PLAN



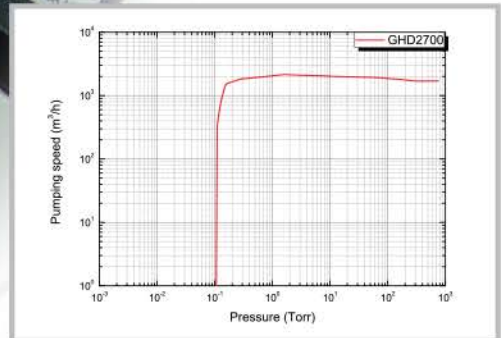
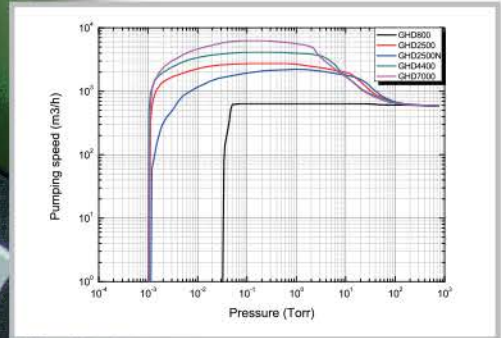
TECHNICAL DATA

	Unit	LD120
Pumping speed	m ³ /hr	120
	ℓ /min	2,000
Ultimate pressure	Torr	< 1.0×10 ⁻²
	Pa	< 1.3×10 ⁻⁶
Maximum exhaust pressure	bar (psig)	1.5 (7.2)
Nitrogen supply pressure	bar (psig)	-
Internal purge-gas pressure	bar (psig)	-
Nitrogen consumption (ETCH)	slm	-
Nitrogen consumption (CVD)	slm	-
Nitrogen connection	inch	-
Cooling water consumption	ℓ /min	≥ 4.0
Cooling water supply temp	°C (°F)	15 ~ 30 (59 ~ 86)
Cooling water supply pressure (with ΔP≥1bar)	bar (psig)	3.5 ~ 6 (36 ~ 73)
Cooling water connection	inch	3/8" Quick Connector
Intake port	mm	DN 50 KF
Exhaust port	mm	DN 25 KF
Dimension (W×L×H)	m ³	280×582×309
Weight	kg (lbs)	102 (225)
Maximum ambient temperature	°C (°F)	40 (104)
Minimum ambient temperature	°C (°F)	10 (50)
Power consumption at ultimate pressure (DP+BP)	kW	1.5
Rated motor power (DP+BP)	kW	3.0
Supply voltage—Multi—Voltage motor	V/∅/Hz	200~230V,380V / 3∅ / 50, 60Hz
Oil charge volume (DP+BP)	ℓ	0.24

※ Option 설정 가능 - power consumption은 평균값
 ※ Option can be set, power consumption → average

GHD Series

LOT VACUUM

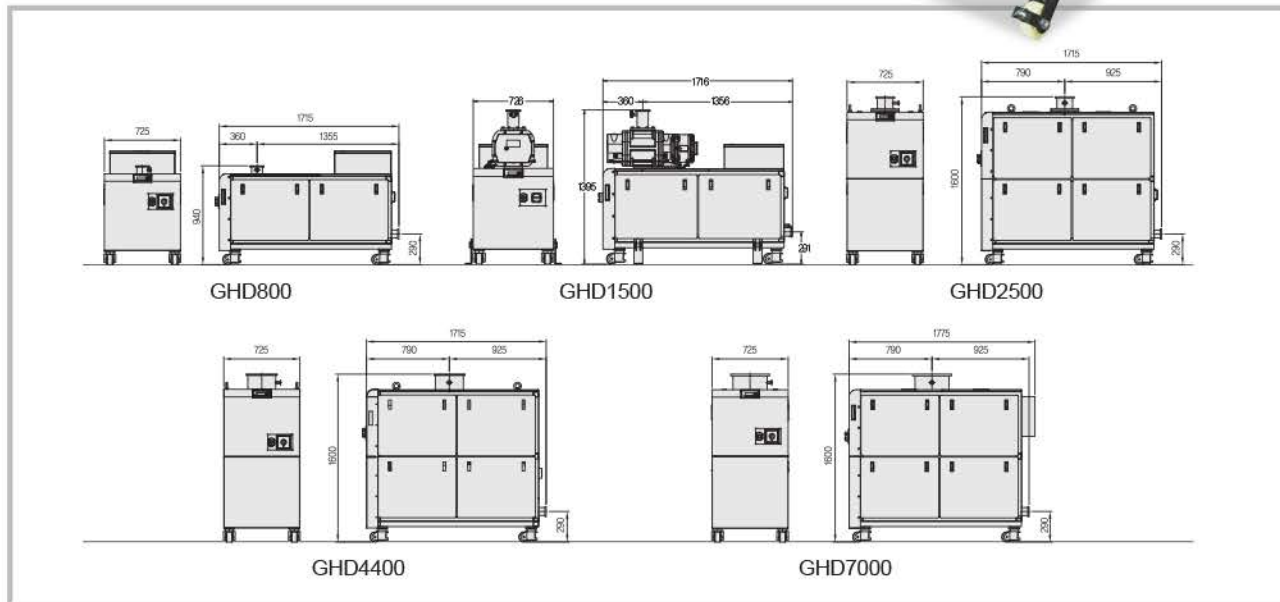


FEATURES

- Screw rotor dry vacuum pump
- No sealing Oil and sealing water for vacuum process
- Suitable design for large LCD & solar tools
- No contact point between rotor and rotor housing
- Various capacity from 640m³/hr to 6300m³/hr with blower
- Easy maintenance



PLAN



TECHNICAL DATA

	Unit	GHD800	GHD1500	GHD2500	GHD4400	GHD7000	GHD2700
Pumping speed	m ³ /hr	640	1,500	2,600	4,200	6,300	2,200
	ℓ /min	10,500	25,000	43,000	70,000	105,000	36,000
Ultimate pressure with module purge	Torr	≤ 5.0×10 ⁻²	≤ 5.0×10 ⁻³			≤ 1.0×10 ⁻¹	
	Pa	≤ 6.6×10 ⁻⁰	≤ 6.6×10 ⁻¹			≤ 1.3×10 ⁺¹	
Maximum exhaust pressure	bar (psig)	1.5 (7.2)					
Nitrogen supply pressure	bar (psig)	4 ~ 8 (43 ~ 100)					—
Internal purge—gas pressure	bar (psig)	3 (29)					—
Nitrogen consumption (CVD)	slm	150 ~ 300					—
Nitrogen connection	inch	3/8" Lok Fitting					—
Cooling water consumption	ℓ /min	≥ 18					35~50
Cooling water supply temp	°C (°F)	15 ~ 25 (59 ~ 77)					
Cooling water supply pressure (with ΔP≥1bar)	bar (psig)	3.5 ~ 6 (36 ~ 73)					
Cooling water connection	inch	1/2" Quick Connector					JIS 10K Flange
Intake port	mm	DN 100 ISO-K	DN 160 ISO-K	DN 160 ISO-K	DN 250 ISO-K	DN 320 ISO-K	150A JIS 10K
Exhaust port	mm	DN 63 ISO-K					100A JIS 10K
Dimension (W×L×H)	mm ³	725×1715×940	726×1,716×1,395	725×1,715×1,600	725×1,715×1,600	725×1,775×1,600	1470×2,590×1,900
Weight	kg (lbs)	1,250 (2,756)	1,500 (3,307)	1,650 (3,638)	1,950 (4,299)	2,000 (4,409)	3,500 (7,716)
Maximum ambient temperature	°C (°F)	40 (104)					
Minimum ambient temperature	°C (°F)	10 (50)					
Power consumption at ultimate pressure	kW	15.0	16.5			45.0	
Rated motor power	kW	18.5	22.5	26.0	29.5	55.0	
Supply voltage—Multi—Voltage motor	V/∅/Hz	220, 380, 440V / 3Phase / 50, 60Hz					
Oil charge volume	ℓ	3.70	5.50	5.70	8.45	5.00	



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