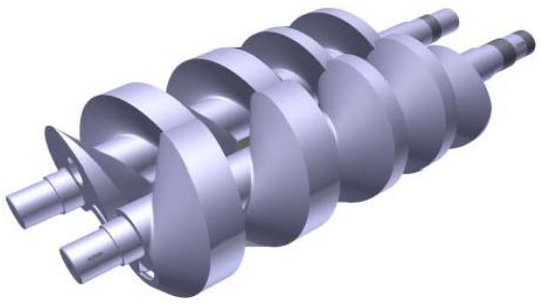
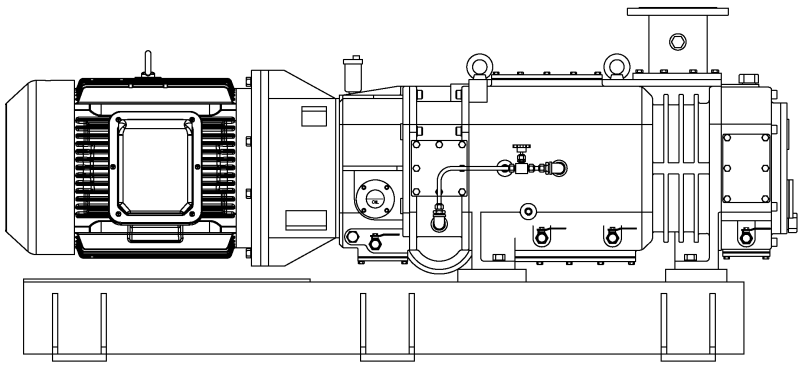
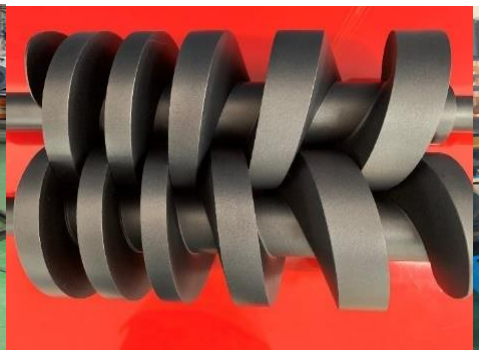
Dry Screw Vacuum Pump

EDP-1000 ~ 2500 Dry and robust. The vacuum technology for processes involving high gas flow in low vacuum range.

EDP-1000, 1200, 1500, 2500 Series







DVTec Vacuum Co., Ltd



Chemical Process, Vapor Recovery unit (VRU) PV Central Vacuum System, Steel Degassing

DV TEC EDP-1000, 1200, 1500, 2500 Dry Vacuum Pump applies 3-stage continuously variable screw (patent),Specially developed unique screw rotor makes large capacity, high performance

Process stability, optimum vacuum efficiency, and durability are maintained by power saving, low exhaust temperature, low vibration, and low noise.

The structure of the product is a very simple and original design, and the Mech. Seal and Lip Seal are used in combination. No contamination of seal parts, stable for long-term use, and very low maintenance and management costs

- **Adoption of Screw Rotor by 3-step continuous variable method**
- **Improvement of suction efficiency and exhaust efficiency**
- **Lower exhaust temperature (50%)**
- **Low-noise, low-vibration operation**

◈ Advantage & Features

Capacity : Large suction capacity by compact design (1000m3/hr - 2500m3/hr)

Seal : Self-developed Mech. Seal, lip seal is used, Structure free from process contamination, oil leaks, and small trouble

Lubrication : Both sides adopt oil scattering method - Improved bearing durability compared to grease

Coating : Adopting a variety of coating methods (PTFE, PFA, PEEK, Ni+PFA, Hastelloy) to suit the use process

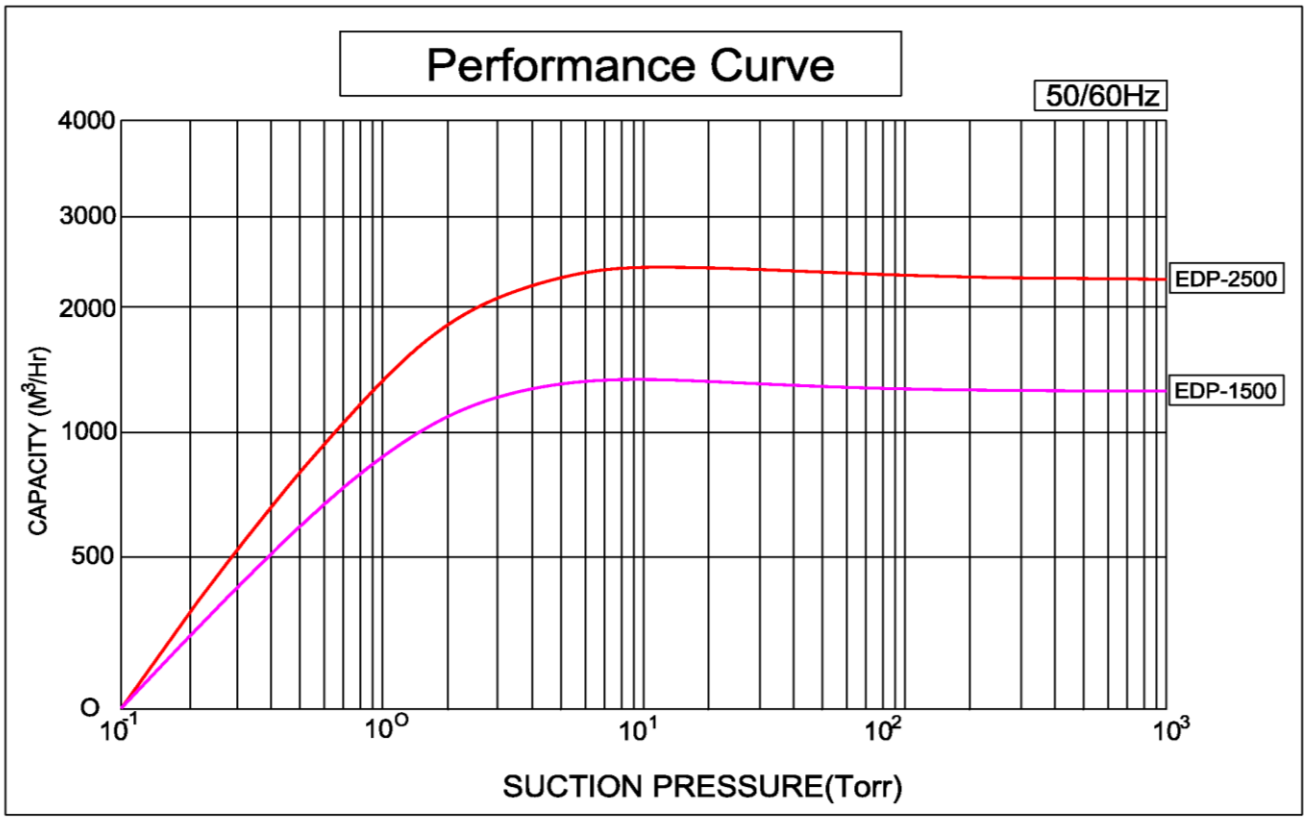
Noise and vibration: Simple installation and low noise and low vibration by using IEC Flange Motor

Maintenance : Simple structure design method, easy maintenance and low repair cost

◈ Technical Specification

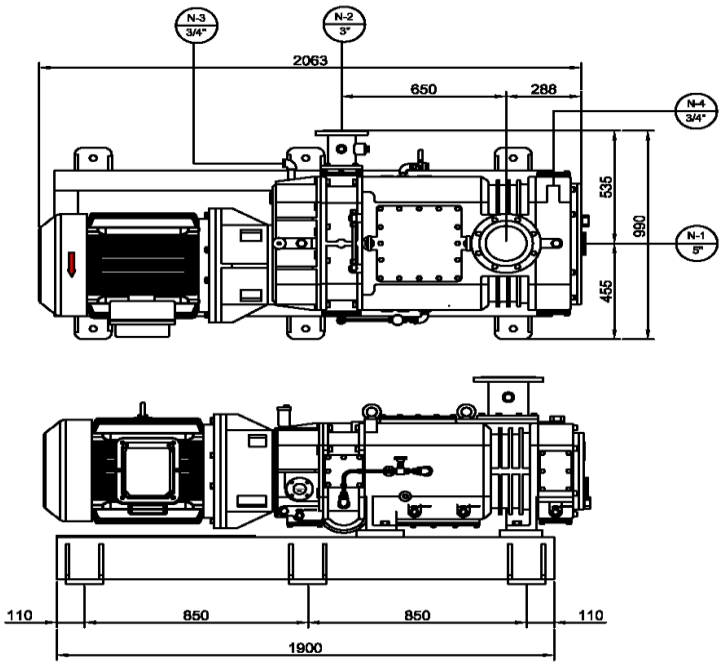
Description	Unit	EDP-1000	EDP-1200	EDP-1500	EDP-2500
Ultimate Capacity (60Hz)	m^3/hr	1000	1200	1500	2500
	l/min	15400	17500	23000	41000
Ultimate Pressure (60Hz)	Torr	0.01	0.01	0.01	0.01
	Pa	10.33	10.33	10.33	10.33
Motor Power	kW	22	30	37	55
Motor RPM (50Hz/60Hz)	rpm	2900	2900	1450 / 1750	1450/1750
Connection Flange (In)	mm	100	100	125	150
Connection Flange (Out)	mm	80	80	80	100
Cooling Water Flow-rate	l/min	82	82	82	84
Noise Level (60Hz)	dB	750	750	84	84
Weight	Kg	700	850	950	1750

◈ Performance Curve



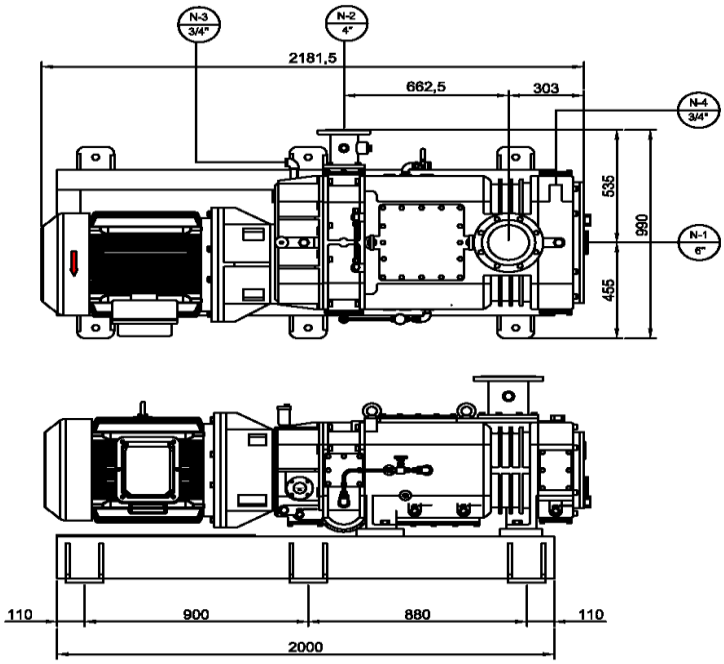
◈ Dimension Specification

EDP-1500



NO.	SIZE	CONNECT	REMARKS
N-1	5"	DIN 16 BAR	SUCTION
N-2	3"	DIN 16 BAR	DISCHARGE
N-3	3/4"	PT	C.W. SUPPLY
N-4	3/4"	PT	C.W. RETURN

EDP-2500



NO.	SIZE	CONNECT	REMARKS
N-1	6"	DIN 16 BAR	SUCTION
N-2	4"	DIN 16 BAR	DISCHARGE
N-3	3/4"	PT	C.W. SUPPLY
N-4	3/4"	PT	C.W. RETURN

Screw Dry Vacuum Pump

◈ Materials & Construction

◈ Body Casing : Ductile iron (FCD 55)
◈ Screw Rotor : Ductile iron (FCD55)
◈ Plate / Cover / Bearing holder : Ductile iron (FCD40)
◈ Seal type : Mech. Seal + Lip Seal
◈ Drive Oil seal : Viton
◈ Seal Sleeve : Stainless steel (SUS304) + Ceramic Coating, SKD-61
◈ Timing gear : Alloy Steel (SCM415)
◈ Coating Spec. : PTFE, PFA, PEEK
◈ Oil lubrication : Front / End - Oil lubrication type

◈ Standard Accessory

◈ Base Structure & Safety Cover
◈ Discharge Silencer & Separator
◈ Suction pot
◈ Check Valve
◈ Vacuum gauge

◈ Option Accessory

◈ Suction Filter
◈ Discharge Condenser
◈ Suction Knock-Out Separator
◈ Flow Switch & Temp. Switch
◈ C Type Flange Motor

◈ Application

Pharmaceutical, raw synthesis, Concentration, drying

Plastic resin, sheet, extruder, vacuum exhaust

Vacuum device for solvent recovery

Fine chemical, electronic materials, synthesis

Additive, polyurethane, resin reaction

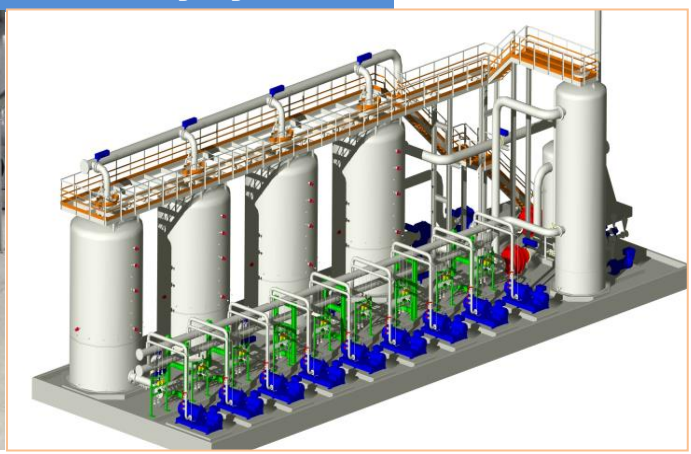
Vacuum distillation, refining, deodorization

Steel, electronics, semiconductor, PV evacuation

Customizing Dry Vacuum System

- Customized vacuum system design
- Vacuum pump system design for process safety
- Design optimized for process conditions

Petrochemical, Vapor Recovery System



Electronic, Semiconductor, PV Pump System

Address : 35 3-gil, Balan Industrial Complex-ro, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, South Korea

Tel : +82-10-9660-4085, +82-031-8003-7277, FAX : +82-031-352-7274

E-mail : hsw4085@naver.com, dvtec71@naver.com