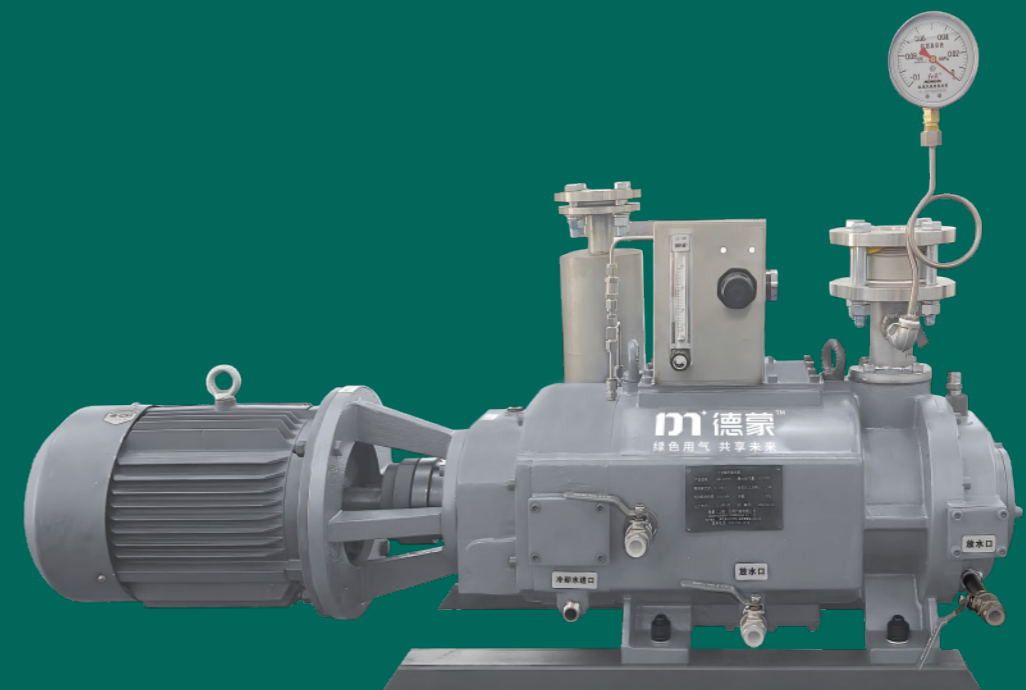


# Vacuum Pump Series Products



**Dream (Shanghai) Compressor Co.,Ltd.**

International Sales & Operation Center: Room 316, 3rd Floor,  
Building 1, Lane 288, Rongxing Road, Zhongshan Street, Songjiang District, Shanghai,China

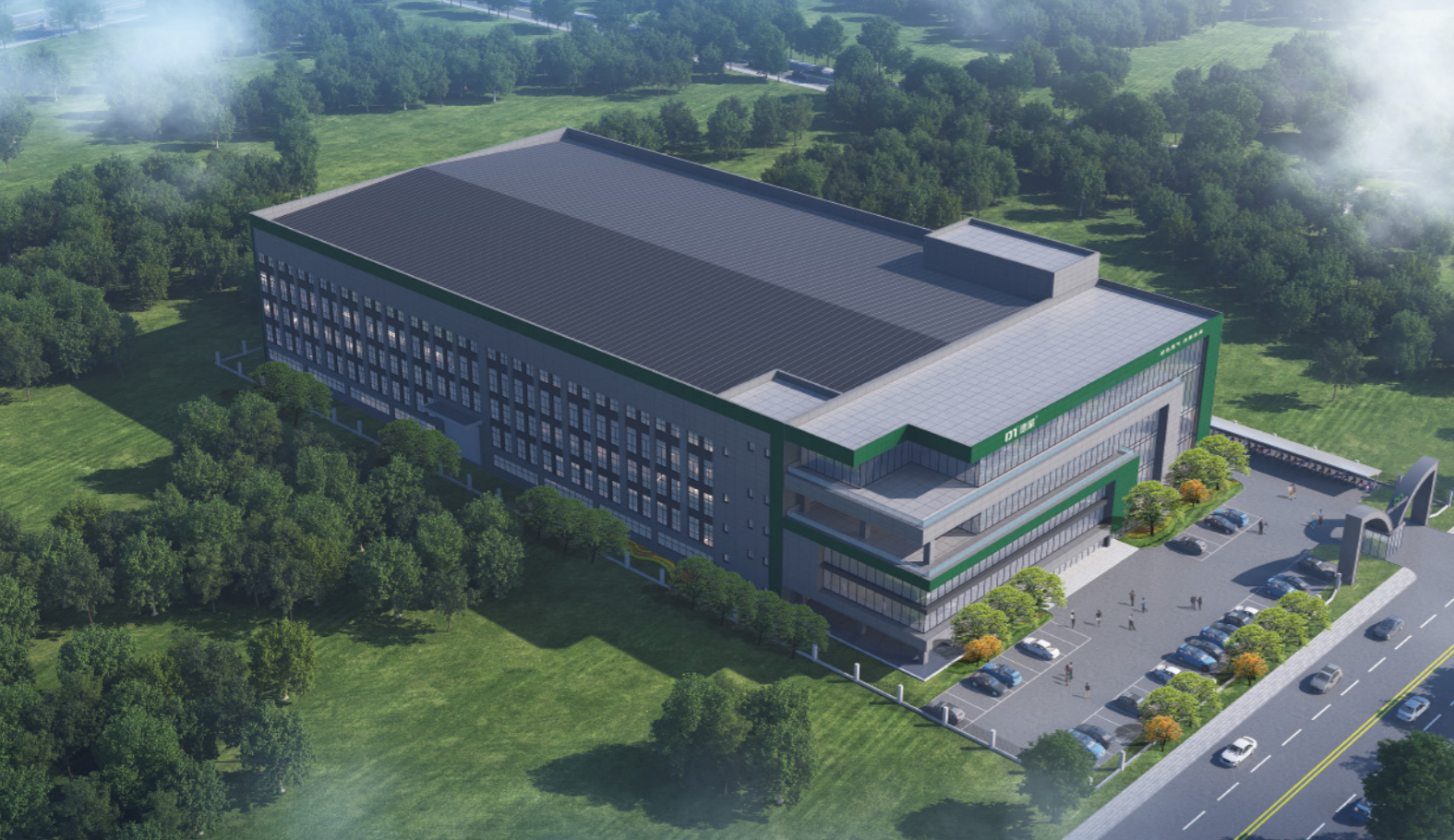
Manufacturing Center No. 916,Chuangzhi Road,Xindai Town,Pinghu City,  
Jiaxing City,Zhejiang Province, China

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www.dmcomp.com

Dream(Shanghai) Compressor Co.,Ltd.



## ABOUT DREAM

 **45000** m<sup>2</sup>  
factory area

 **100+** 项  
Invention patents and honors

 **20+**  
Regional branches/subsidiaries

Dream (Shanghai) Compressor Co., Ltd. which established in Shanghai in 2011. It is a company specialized in designing, manufacturing and marketing of air compressors, A high-tech enterprise to offer system solutions. It has won honors such as Shanghai Brand Cultivation Demonstration Enterprise, special new enterprise, energy-saving equipment contribution enterprise, high-tech achievement transformation project, etc. The products are used widely in new energy, chemical industry & chemistry, Electronics, textiles, brewing mill, laser cutting, medicine & food and other fields. Since its establishment, Dream has R&D the application of air compressor system related technologies continuously, strictly abide by the ISO9001 quality management system, ISO14001 environmental management system, ISO45001 occupational health and safety management system standards, ensure that various processes are closely synchronized with international standards. We set up a professional R & D center to meet the demand and application conditions of different application clients worldwide. Based on concepts of stable, energy-saving, clean, efficiency, simple operation & maintenance, DREAM insists on developing based on market demand and innovation. The company invests 10%-15% of its profits every year into R&D and the upgrading & optimization of products. Innovation is main driver for DREAM grow up. As manufacturer supplier of Air compressor system solutions, Our service cover client requirement analysis, site investigation, technical solution design, and project cost analysis, non-standard solution customization, solution demonstration and promotion. we provide exclusive compressed gas solutions based on project needs.

After development for 14+ years, Dream has always adhered to the enterprise spirit of "One heart One Dream, striving for excellence", constantly innovating and pursuing excellence. Dream people continue to explore and innovate to meet customer needs and provide users with better products and service. Based in China, Dream's products has exported to worldwide countries successfully, mainly market as South Asia, South East Asia, Europe, Africa, South America, North America, and CIS countries, footprints all over the world. Its excellent product performance and efficient service concept continue to create value for users.

Dream will be always your trust partner. We believe that you will experience our high-quality products and professional services, by working with us. Welcome to pursue dream and create better future with DREAM together!

## DREAM CULTURE



### Vision

To become the industry's most competitive vacuum technology and gas compressor solutions provider



### Mission

Give users more worry free Sustainably save energy and gas



### Value

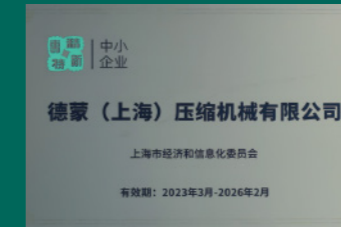
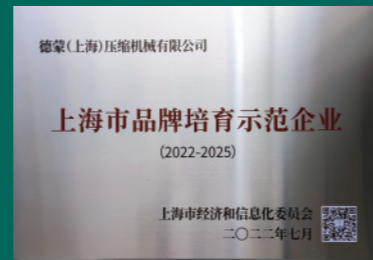
Concentric shared dream professional focused co-created shared

# DREAM

GREEN ENERGY SHARED DREAM

## Enterprise honor

- High-tech enterprise
- Specialized in special new enterprises
- Energy-saving technology and equipment contributing enterprises
- Shanghai brand cultivation model enterprise
- CE Certificates
- EMC Certificates
- TUV Rheinland Class 0 Oil Free Certificates
- Germany TUV product safety certification
- GCCA product quality and safety certification
- ISO 9001,14001,45001



**20+**  
City subsidiary

**34** Provincial sales  
service network

Adhering to the business philosophy of "market-oriented, customer-centric, technical support and service guarantee", Dream is committed to providing customers with high quality products and industry-leading services. With Shanghai as the center and 20 service outlets nationwide as the auxiliary, Dream covers 34 provinces and autonomous regions of China's sales and service network, dedicated to provide customers with better service.

## Global service

Dream is committed to providing quality products and services on a global scale, and has conducted overseas operations in many countries and regions, including Southeast Asia, Europe, and the Americas, and has established strong partnerships in overseas markets. Our overseas agents have rich experience in cross-cultural communication and international vision, and are able to better understand and meet the needs of local customers and markets. In the future, we will continue to strengthen the development of overseas business, expand more overseas markets, and let China intelligent manufacturing shine on the international stage.



## Dream Intelligent Manufacturing Six core competencies

### Product

- Oil-free series vacuum pumps
- Energy-saving screw vacuum pumps
- Mobile vacuum pump
- Compressed air purification equipment



### Solution

- Vacuum Technology Energy Saving Expansion
- Digital station house
- Intelligent control
- Whole station energy saving

### Guarantee

- Product quality assurance
- Production cycle support
- Product after-sales support
- System engineering capability assurance
- Capacity supporting measures

### Technology

- Technologies Vacuum System Development
- Automation Digitization Technology
- Specialized application technology

### Engineering

- Vacuum station retrofit capability
- Project management capability
- Engineering design capability
- Detail implementation ability

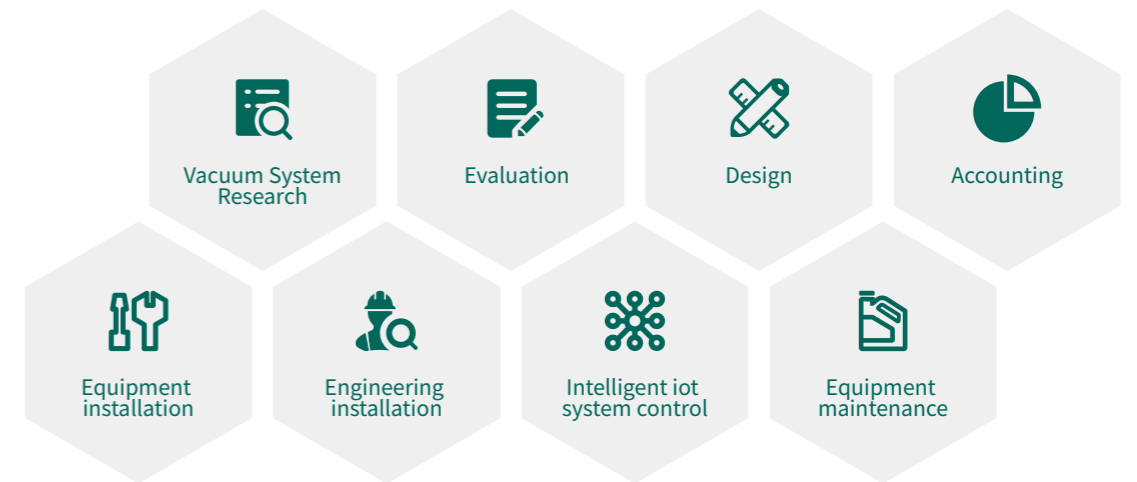
### Service

- Full life cycle service
- Performance pledge
- 19 national service outlets
- Global delivery

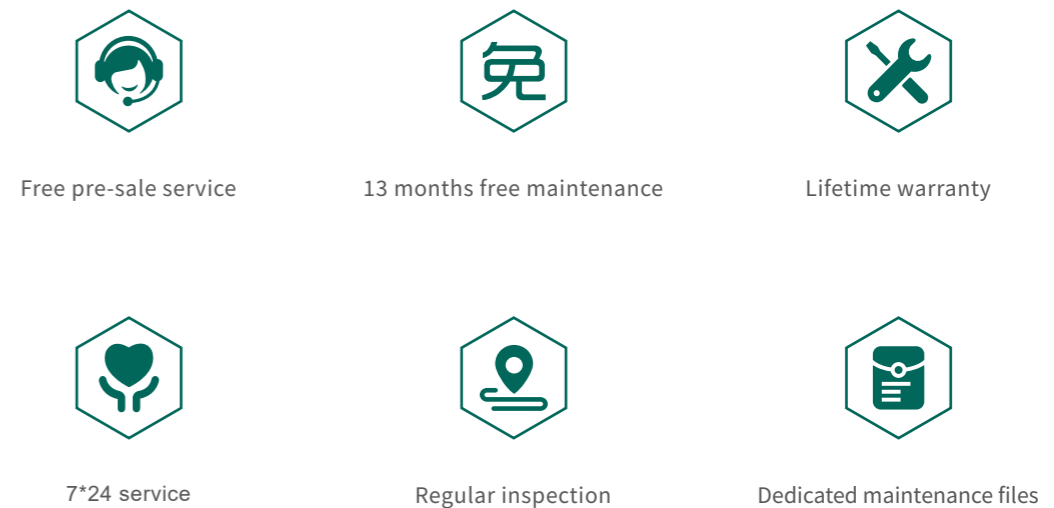
## | Full process cycle and service

We design or upgrade vacuum stations for our customers, providing full process cycle services covering vacuum system research, evaluation, design, accounting, equipment installation, engineering installation, intelligent IOT system control, and equipment maintenance.

## | Service process



## | Performance pledge





## DMW-PA Series Roots screw vacuum unit

The working principle of the Roots screw vacuum unit combines the characteristics of the Roots pump and the screw pump as follows:

Roots pump consists of two impellers rotating with each other, these two impellers mesh with each other through gears but do not touch, this can reduce the energy loss and friction heat, the rotation of the impeller makes the gas being sucked into the pump, and then compressed and discharged, this structure makes the Roots pump able to work in a high vacuum environment without pollutants, and it can handle a large amount of gas.

Screw pump section. The screw pump works through two intermeshing screws, these screws gradually squeeze the gas and discharge it, during the rotation of the screws, the gas enters from the inlet, is compressed along the helical grooves, and finally discharged from the exhaust port.

Combined with the principle of operation. When the Roots screw vacuum unit is in operation, the efficient suction process of the Roots pump is combined with the compression and exhaust process of the screw pump to achieve a rapid establishment of vacuum and efficient gas transfer. This type of unit is suitable for a wide range of applications, and in particular has obvious advantages when dealing with gases containing a small amount of condensable gases or a small amount of dust.



Special coating inside the pump chamber



Low noise design

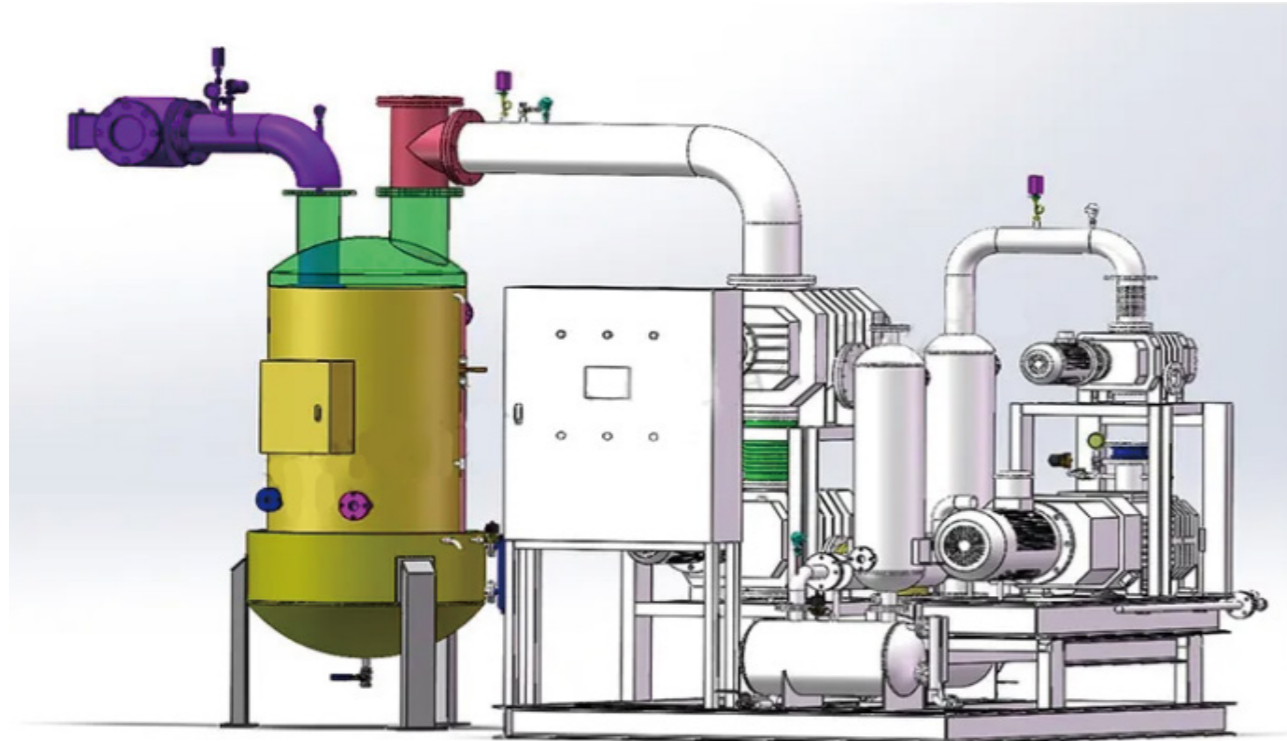


Clean and oil-free pump



Vacuum relay control

Model NO.	Pumping Speed L/s	Extreme Pressure Pa	Unit Model			Air Input Pipe Diameter mm	Air Output Pipe Diameter mm	Total Power (kw)
			main pump	intermediate pump	preliminary pump			
DMW-250PA	70	0.1	DM-70	/	DMW-108PV	100	40	7
DMW-540PA1	150	0.1	DM-150	/	DMW-108PV	100	40	8.5
DMW-540PA2	150	0.1	DM-150	/	DMW-260PV	100	40	14
DMW-540PA3	150	0.1	DM-150	/	DMW-360PV	100	50	14
DMW-1080PA1	300	0.1	DM-300	/	DMW-108PV	150	40	15
DMW-1080PA2	300	0.1	DM-300	/	DMW-360PV	150	50	15
DMW-1080PA3	300	0.1	DM-300	/	DMW-540PV	150	65	26.5
DMW-2160PA1	600	0.1	DM-600	/	DMW-360PV	150	65	16.5
DMW-2160PA2	600	0.1	DM-600	/	DMW-540PV	150	65	27.5
DMW-2160PA3	600	0.1	DM-600	/	DMW-720PV	150	65	27.5
DMW-2160PA4	600	0.1	DM-600	/	DMW-1080PV	150	100	42.5
DMW-4320PA1	1200	0.1	DM-1200	/	DMW-720PV	300	65	33
DMW-4320PA2	1200	0.1	DM-1200	/	DMW-1080PV	300	100	48
DMW-540PAA	150	0.05	DM-150	DM-70	DMW-108PV	100	40	10
DMW-1080PAA	300	0.05	DM-300	DM-150	DMW-260PV	150	40	18
DMW-2160PAA1	600	0.05	DM-600	DM-150	DMW-260PV	150	40	19.5
DMW-2160PAA2	600	0.05	DM-600	DM-300	DMW-260PV	150	40	20.5
DMW-2160PAA3	600	0.05	DM-600	DM-300	DMW-540PV	150	65	31.5
DMW-4320PAA1	1200	0.05	DM-1200	DM-300	DMW-540PV	300	65	37
DMW-4320PAA2	1200	0.05	DM-1200	DM-600	DMW-540PV	300	65	38.5
DMW-4320PAA3	1200	0.05	DM-1200	DM-600	DMW-720PV	300	100	38.5



## Characteristics

1. High Altitude: Ultimate Vacuum 0.1PA-0.01PA
2. Pumping speed: Pumping capacity 70L/S-20000L/S
3. Power: 5.5KW-180KW
4. Because the main pump and the fore stage pump are oil-free dry vacuum pumps, there is no waste water and oil discharge and no pollution to the environment.
5. Both Roots pump chamber and screw pump chamber can be nickel-plated and PTFE-coated, which can pump out a large amount of water vapour and many kinds of corrosive media.
6. There is no oil in the pump chamber, no pollution to the pumped system, and clean vacuum can be obtained.
7. The oil-free pump chamber makes solvent recovery very easy.

## Application Fields



Semiconductor Industry



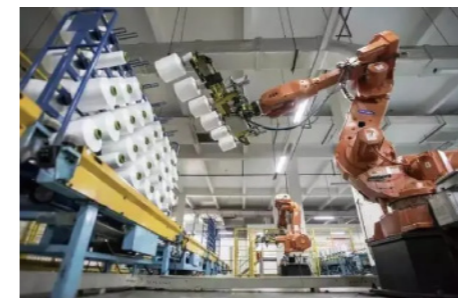
Pharmaceutical industry



Paper industry



Chemical industry

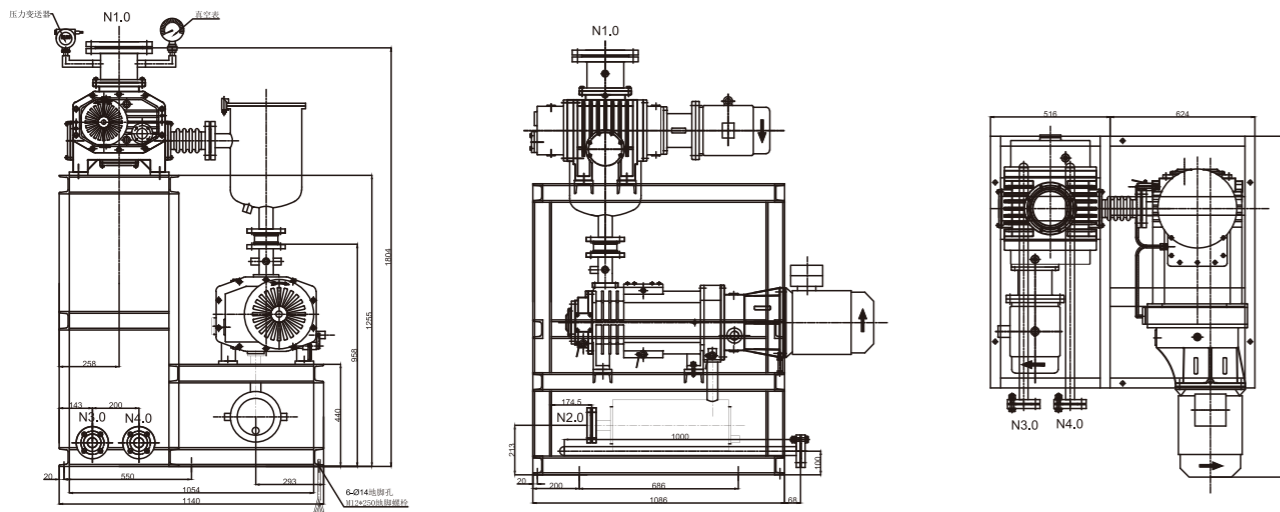


Textile Industry



Metallurgy

## Installation diagram



## Product Application Fields

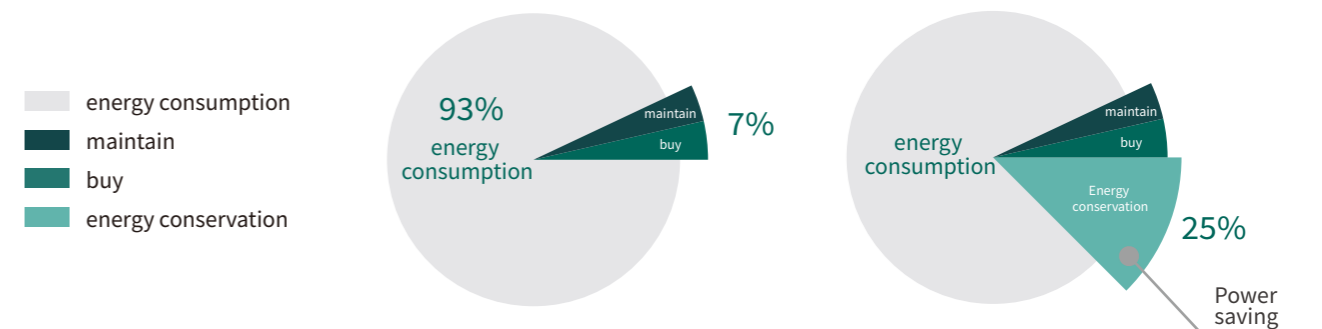
The application fields of vacuum system are very wide, and have penetrated into aerospace, vehicles, civil engineering, machinery, packaging, environmental protection, medicine and medical equipment, petroleum, chemical industry, food, optics, electricity, electronics, atomic energy, semiconductor, cryogenic, professional machinery, textile, paper, civil industry and military industry. Environmental protection, medicine and medical equipment, petroleum, chemical, food, optical, electrical, electronic, atomic energy, semiconductor, cryogenic, professional machinery, textile, paper, civil industry and military industry. With years of in-depth research in the vacuum field and unique insights into the application of vacuum processes, the team of Dermont can customize the best vacuum system solutions according to the customer's process.



## Energy saving and cost reduction

When purchasing vacuum pumps, the traditional cost (that is, purchase cost + maintenance cost) accounts for only 7% of the total cost, while energy consumption accounts for 93%.

— Taking 11KW as an example



Dream 11KW vacuum pump  
It saves about 25% of electricity a year

# DREAM

## Intelligent control technology

cloud intelligent control three functions and value



### Digital Station

Intelligent control: 10-30% reduction in O&M costs

- 3D virtual vacuum pump
- Data dynamic monitoring
- Workshop diagnostic reports
- Failure online warning
- Maintenance interval reminder



### Intelligent control

Intelligent machine adjustment: reduce manual labor time  $\geq 50\%$ .

- Vacuum pump automatic control
- AI algorithm autonomous parameterization
- Dynamic decision making for equipment prioritization
- Intelligent control of ancillary equipment



### Whole station energy saving

save the power consumption of 5-30%

- edge computing technology
- narrow band constant voltage technology
- multi-parameter and multi-constraint control algorithm
- big data visualization technology

## GREEN ENERGY SHARED DREAM



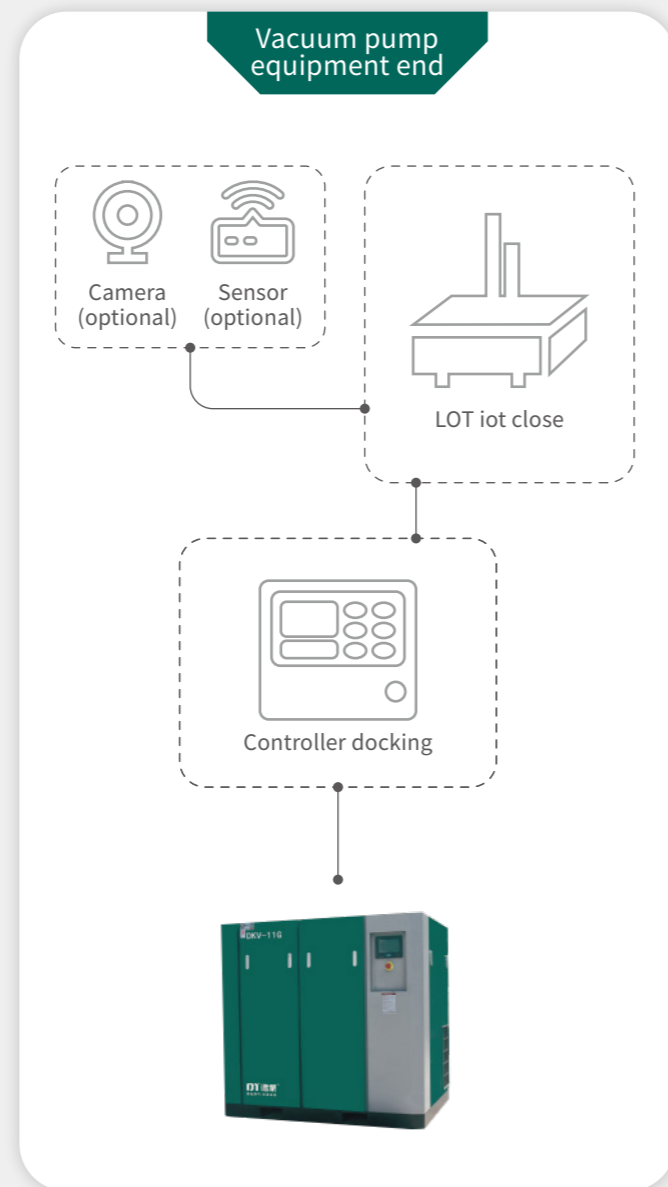
Computer remote monitoring



Dream vacuum pump  
wifi connection control  
remote monitoring



Mobile phone  
remote monitoring



### Digital station house

Station monitoring + control (computer side)  
Vacuum pump, fan, electric meter, etc

### Intelligent monitoring technology

Based on the "Internet of Things" intelligent control technology, the product has the ability to transport parameters through cloud technology, and our users can achieve it through computers or mobile phone apps.

