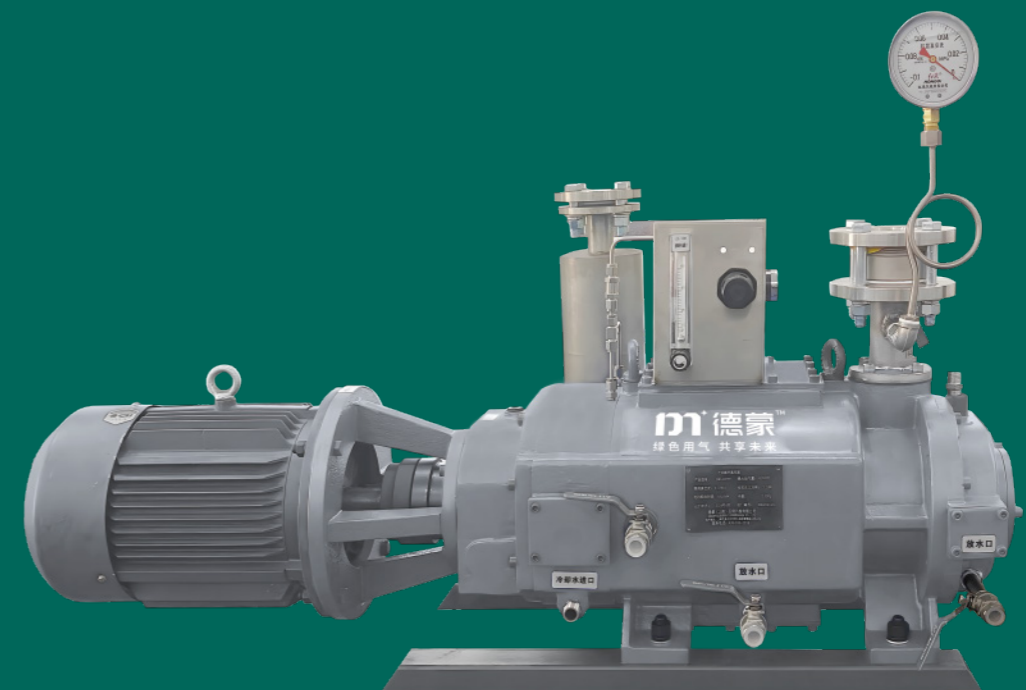


# Vacuum Pump Series Products



**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

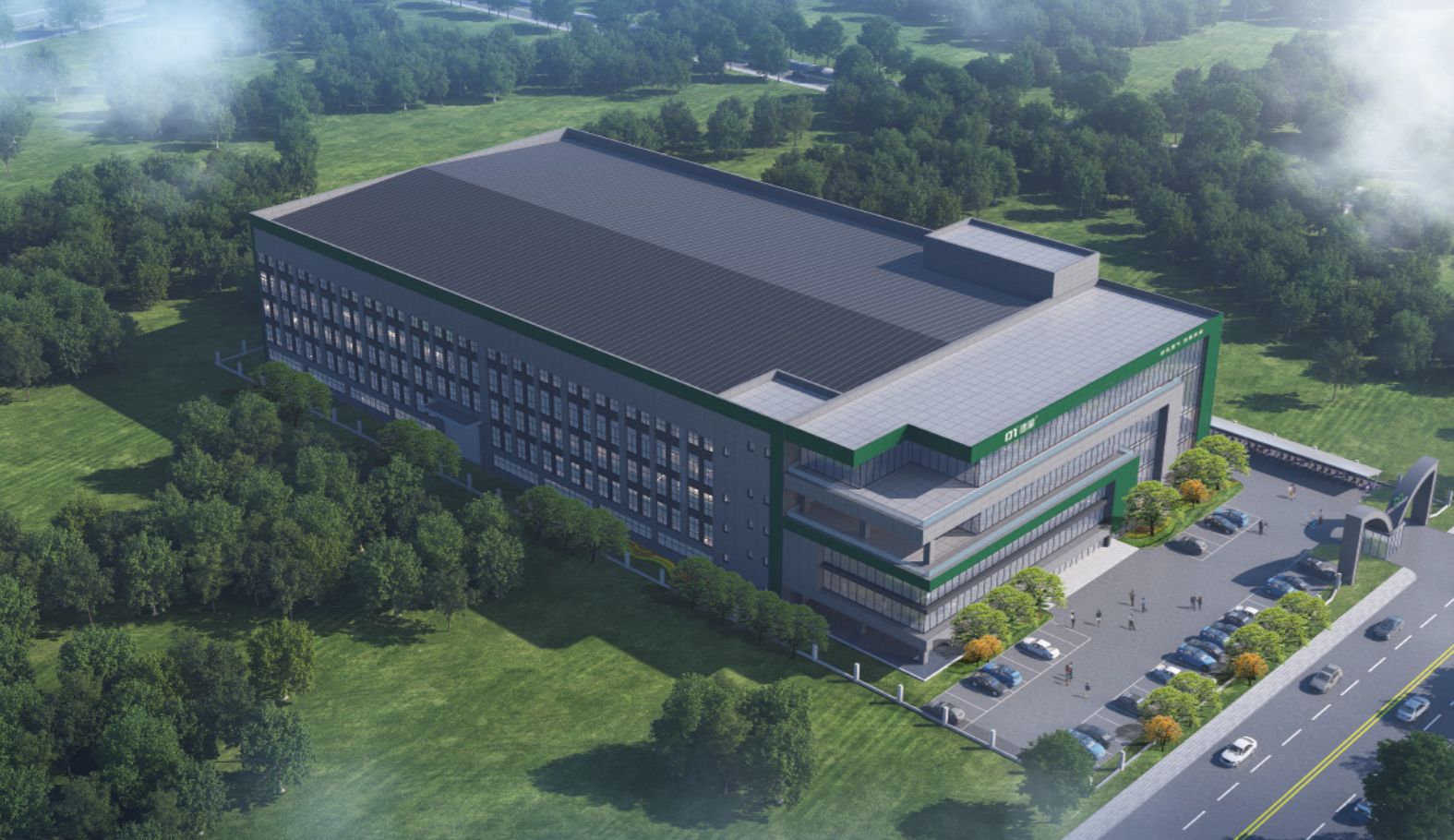
Manufacturing Center No. 916, Chuangzhi Road, Xindai Town, Pinghu City,  
Jiaxing City, Zhejiang Province, China

86-13671551445  
sales@dmcomp.com



www.dreamcompressor.com  
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

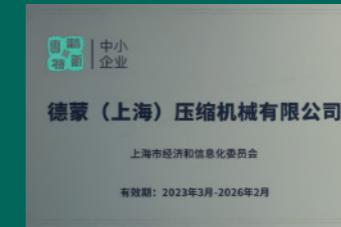
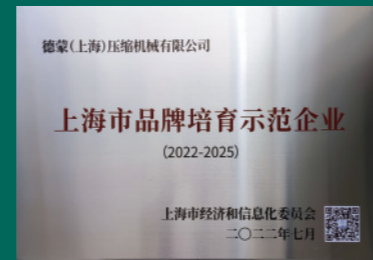
Concentric shared dream professional focused co-created shared

# 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

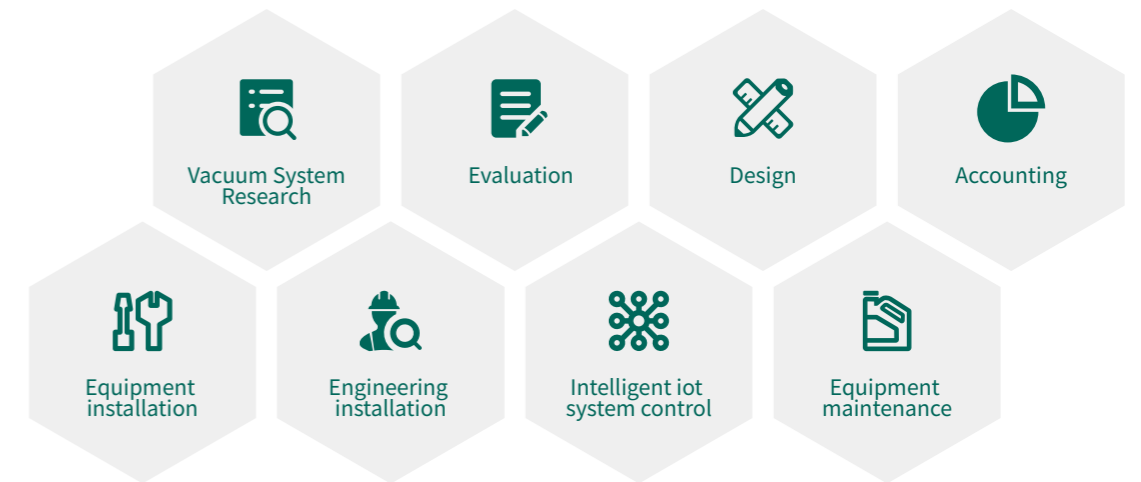
### Service

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

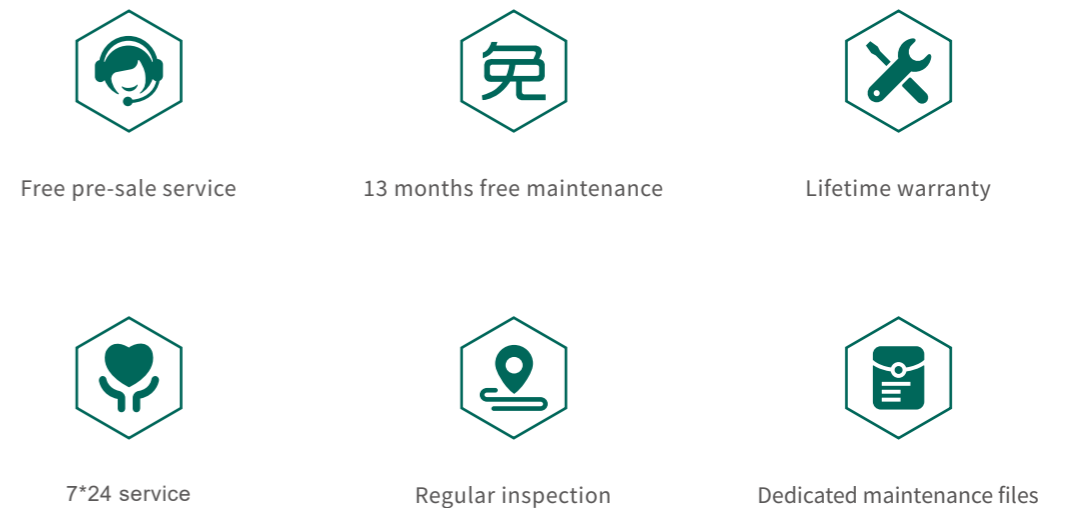
## | Full process cycle and service

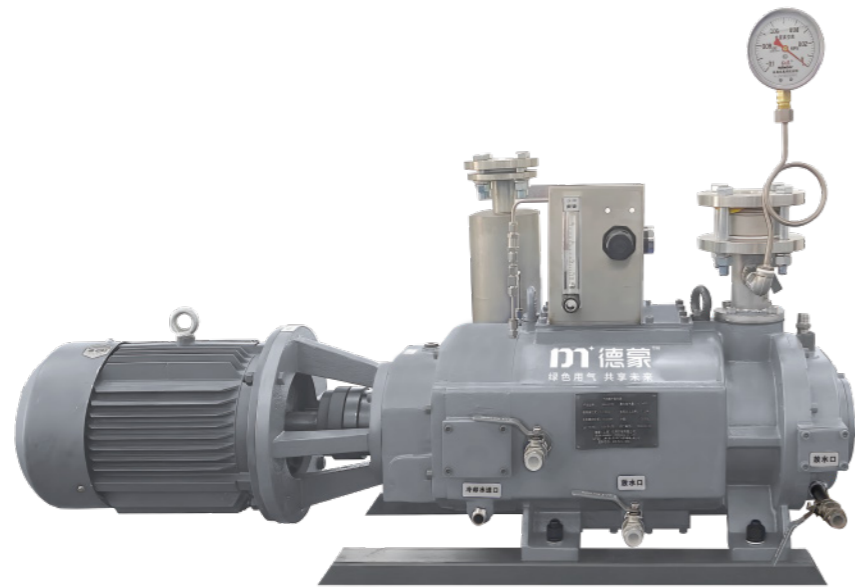
We design or upgrade vacuum stations for our customers, providing full process cycle services covering vacuum system research, evaluation, design, accounting, equipment installation, engineering installation, intelligent IOT system control, and equipment maintenance.

## | Service process



## | Performance pledge





Parameter table of Demon dry screw vacuum pump (equal pitch)

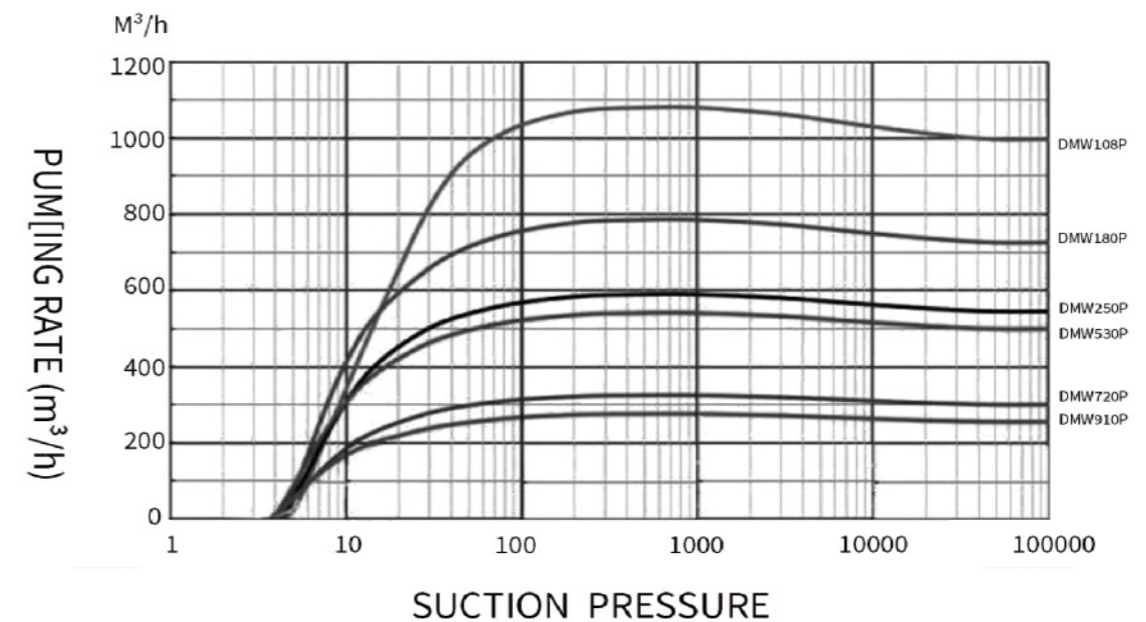
Model NO.	Pumping Speed (m <sup>3</sup> /h)	Extreme Pressure (Pa)	Motor power (kW)	Power Supply (V)	Noise Level db(A)	Air Inlet Pipe Diameter (mm)	Air Outlet Pipe Diameter (mm)
DMW108P	108	5	4	380	≤76	50	40
DMW180P	180		5.5		≤80	50	40
DMW250P	250		7.5		≤80	50	40
DMW530P	530		15		≤83	65	50
DMW720P	720		22		≤85	80	80
DMW910P	910		30		≤86	100	80

## DMW-P series

### 1. Dry screw vacuum pump

1. It can run at full speed under atmospheric pressure and ultimate vacuum.
2. A single stage can achieve a higher vacuum degree, with an ultimate pressure of 2-5Pa.
3. There is no oil or water in the working chamber of the pump that contacts the process gas.
4. The rotors do not touch each other, reducing wear; the rotors, housings, and flow-through parts can be coated with anti-corrosion coatings such as Teflon and Hastelloy.
5. The gas channel in the pump is short and can be exhausted quickly.
6. It can be operated alone or as a fore-stage pump.
7. Dry screw vacuum pumps are available in two types: equal pitch and variable pitch, also known as external compression screws and internal compression screws. Compared with equal pitch screws, variable pitch screw pumps have lower exhaust temperature and higher efficiency.

DMW series equal pitch screw vacuum pump pumping speed curve 50HZ



Note: 1. The oil volume in the above table is for reference only. The oil level should be at the correct position. Special lubricating oil can be used for dangerous applications.  
 2. The cooling water volume in the above table is based on the cooling water at 20°C at the inlet. The amount of cooling water varies according to the secondary cooler. The temperature difference between the inlet and outlet water should be around 7°C.



run smoothly



Self-developed anti-corrosion coating



Safety and environmental protection

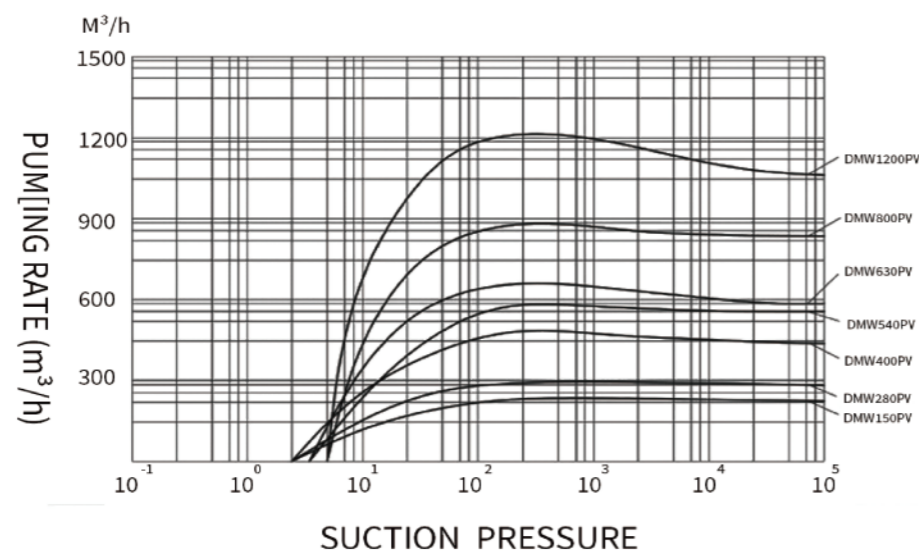


No oil consumption no dripping

**Dream dry screw vacuum pump (variable pitch) parameter table**

Model NO.	Pumping Speed (m <sup>3</sup> /h)	Extreme Pressure (Pa)	Motor power (kW)	Rotation Speed (rpm)	Air Inlet Pipe Diameter (mm)	Air Outlet Pipe Diameter (mm)	Noise Level(dBA)	Cooling Water (L/min)
DMW180PV	180	1	3.7	2900	50	40	≤75	5-10
DMW260PV	260	1	5.5		65	50		
DMW330PV	330	1	7.5		65	50		10-15
DMW450PV	450	1	11		80	65		
DMW650PV	650	1	15	2900	100	80	≤85	15-20
DMW780PV	780	1	18.5		100	80		
DMW960PV	960	1	22		100	80		
DMW1500PV	1500	1	30		150	100		
DMW1860PV	1860	1	37		150	100		

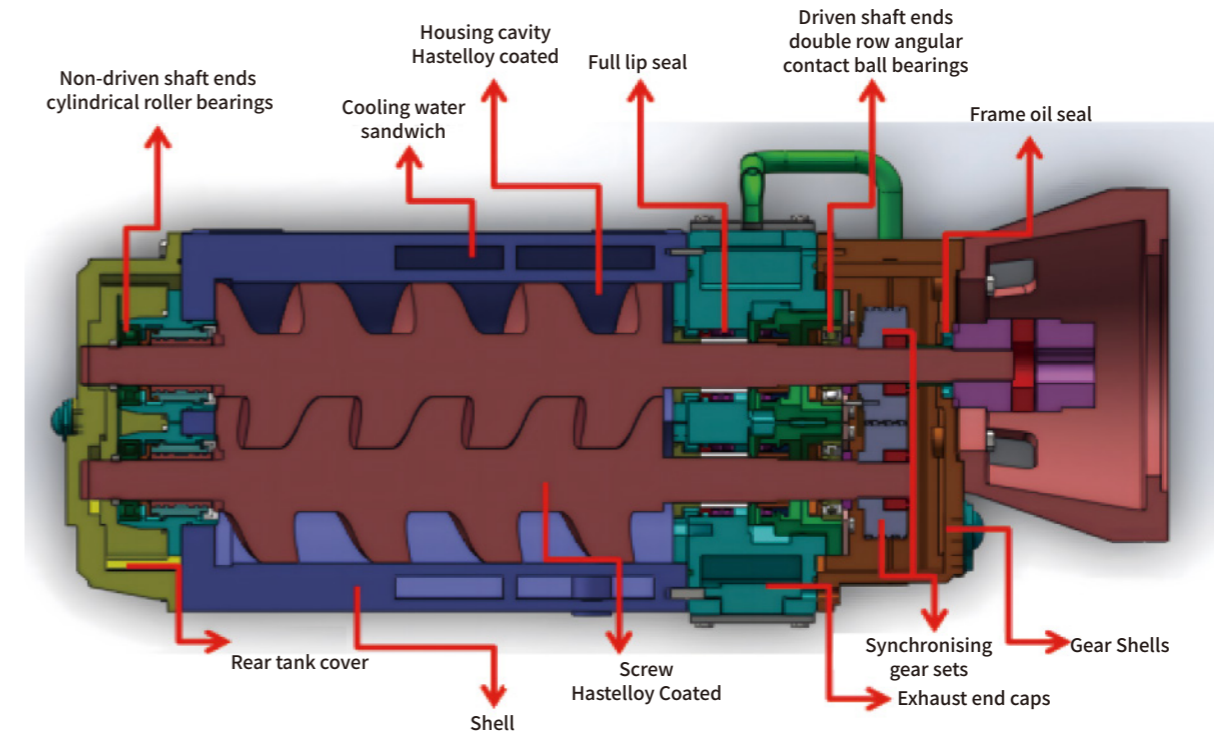
**DMW Series Variable pitch screw vacuum pumps pumping speed curve 50HZ**



Note: 1. The oil quantity in the above table is for reference only. The oil level should be in the correct position. Special lubricating oil can be used for hazardous applications.  
 2. The amount of cooling water in the above table is based on the cooling water at the inlet of 20°C. The amount of cooling water is different according to the different secondary coolers. The temperature difference between the inlet and outlet water should be about 7°C.

## Dry Screw Vacuum Pumps Features

- (1) The working chamber is free of any medium, so that a clean vacuum can be obtained.
- (2) Corrosion-resistant plating of the working chamber and the screw surface, suitable for severe working conditions.
- (3) Dry operation of the working chamber, suitable for pumping out gases containing dust and condensable gases.
- (4) Single pump can pump from atmosphere to 1Pa, vacuum system can be greatly simplified.
- (5) No friction between rotating parts, resulting in long life.
- (6) The dry screw vacuum pumps are balanced with high precision and can run at high speed with smooth operation and small size.
- (7) Compared with multi-stage claw pump, it has simple and compact structure, fewer parts, more stable operation and easier maintenance.
- (8) Compared with oil-sealed, reciprocating vacuum pumps, condensable substances will not be retained in the pump, no oil vapour and oil mist emission, preferred for environmental protection.
- (9) Compared with water ring pump, dry screw vacuum pump only needs recyclable cooling water, the pumped gas does not contact with water, the tail gas can be easily recovered, eliminating the sewage treatment process, more environmentally friendly, and avoiding the effect of water temperature on vacuum.
- (10) It can be combined with Roots pump and molecular pump to form oil-free unit.



## Advantage

1. Simple structure and easy maintenance.
2. No oil consumption, no dripping. Dry screw pumps require only a small amount of circulating cooling water and have low running costs.
3. no compression of gas in the pump, suitable for pumping condensable gases. Dry screw vacuum pumps also have their advantages in terms of safety in chemical production and product quality.
4. anti-corrosion performance, the working chamber and screw rotor surface with anti-corrosion coating, can adapt to the harsh working conditions.
5. the pumped gas is discharged directly from the pump body, no pollution of water, no environmental protection pressure, gas recovery is more convenient.

## Product Application Fields

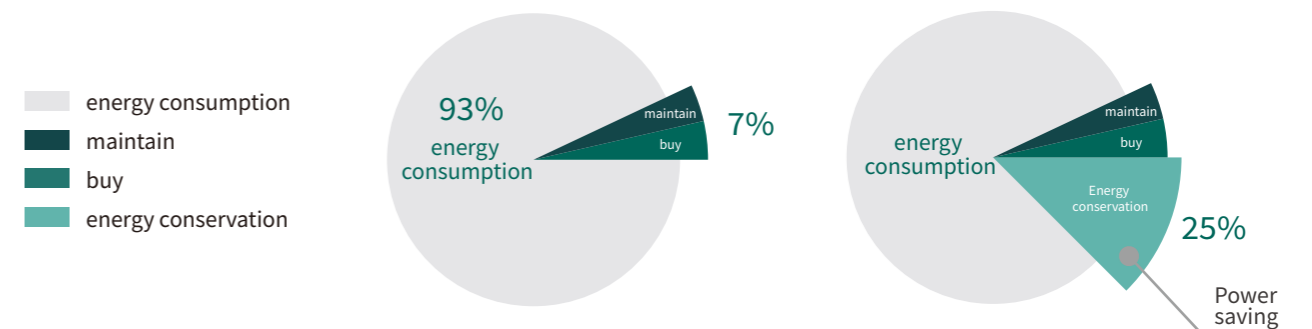
The application fields of vacuum system are very wide, and have penetrated into aerospace, vehicles, civil engineering, machinery, packaging, environmental protection, medicine and medical equipment, petroleum, chemical industry, food, optics, electricity, electronics, atomic energy, semiconductor, cryogenic, 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



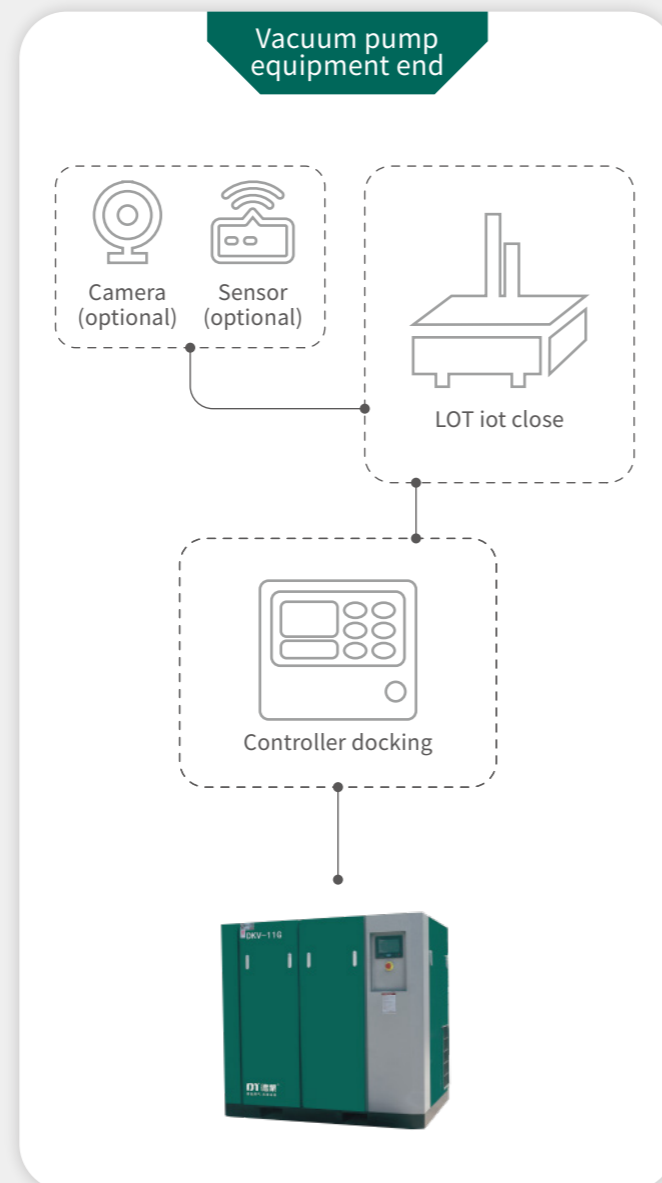
Computer remote monitoring



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.

