

STABLE | ENERGY-SAVING | CLEAN | AND EFFICIENT

DMWV/DMW-G Oil-free water-lubricated screw air compressor



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Dream(Shanghai) Compressor Co.,Ltd.

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DMWV-G series oil-free water-lubricated permanent magnet variable frequency screw air compressors

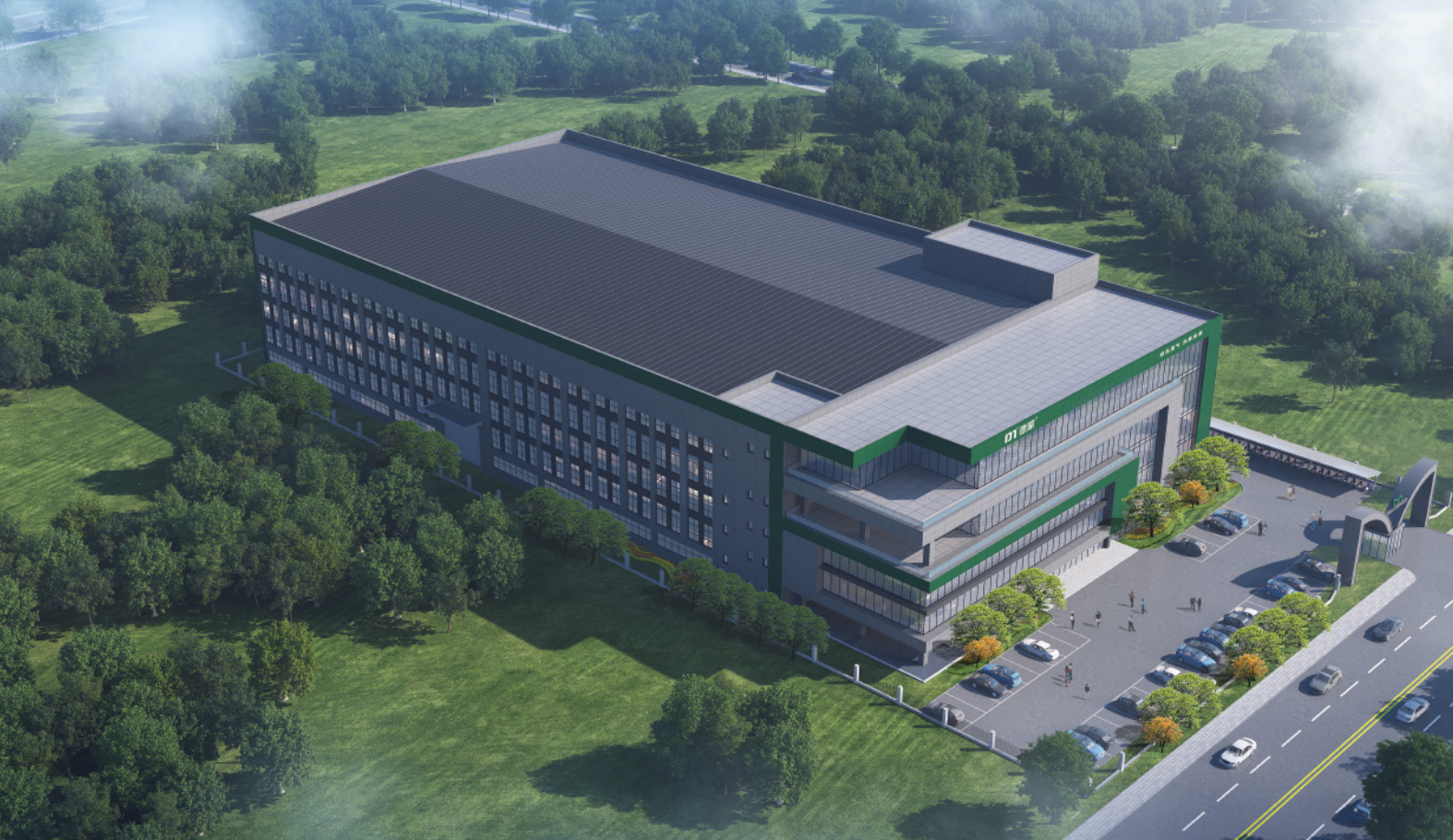
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DMW-G series oil-free water-lubricated power frequency screw air compressors

Catalogue /

- 01 About DREAM
- 02 DREAM culture
- 03 Corporate Honors
- 05 DREAM Intelligent Manufacturing
- 07 DMWV-G series oil-free water-lubricated permanent magnet variable frequency screw air compressors
- 09 DMW-G series oil-free water-lubricated power frequency screw air compressors
- 11 Product Applications
- 13 Energy saving and cost reduction
- 15 Intelligent control technology



ABOUT DREAM

 **45000** m²
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, is A high-tech enterprise that sells and provides 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 widely used in new energy, chemical industry & chemistry, Electronics, textiles, brewing mill, laser cutting, medicine & food and other fields.

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 be a global leader in gas compression intelligent equipment and system solutions service provider



Mission

Make Industry Air More Stable, More Clean, More Efficient



Value

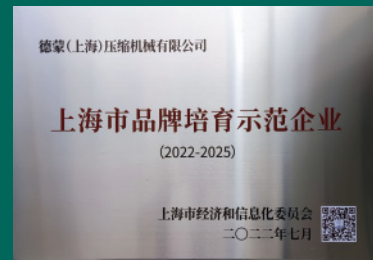
One Heart. One Dream. Professional. Focus. Innovative. Win-win.

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,Eu-rope,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.



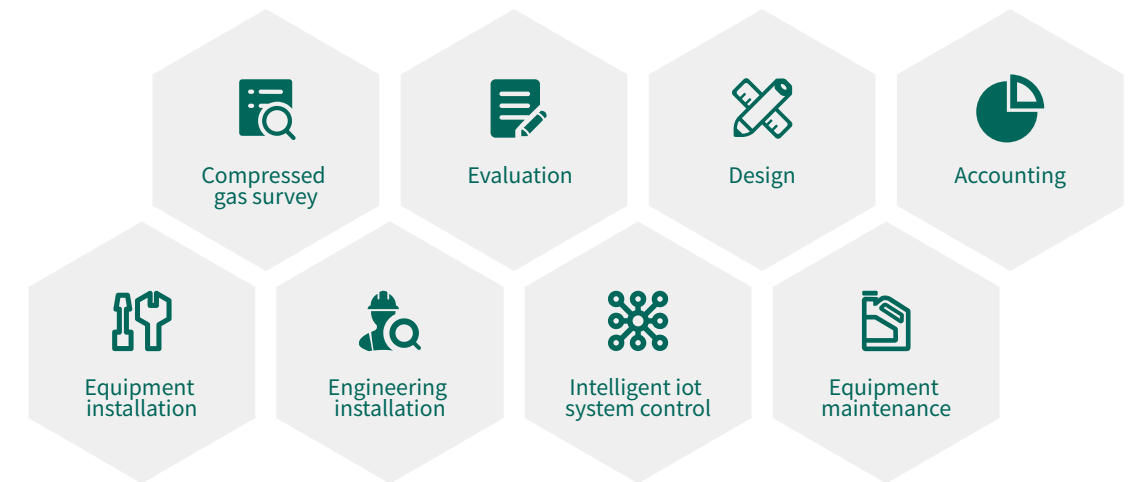
Dream Intelligent Manufacturing Six core competencies



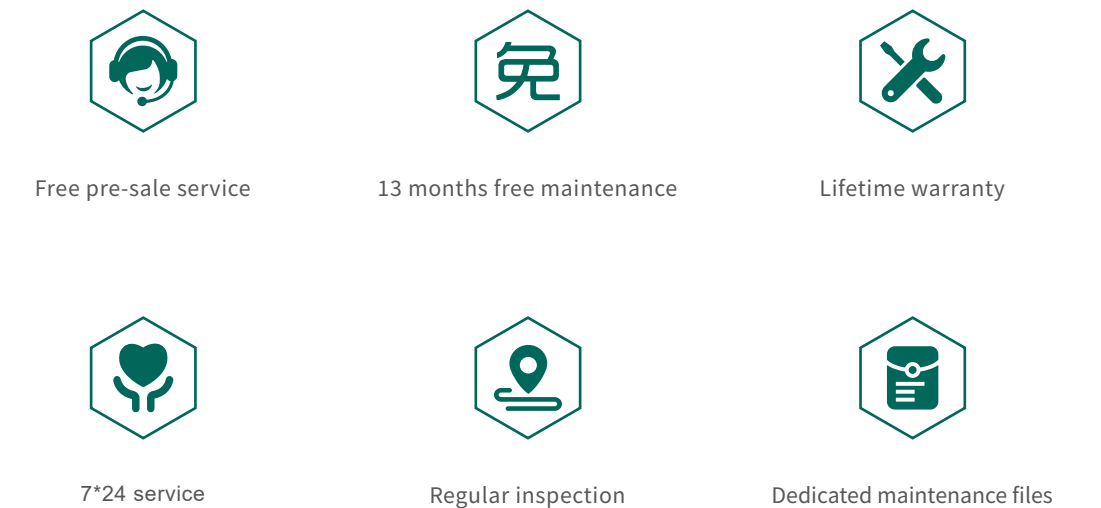
| Full process cycle and service

We provide the whole process cycle service for customers to build gas stations or upgrade, covering compressed gas system research, evaluation, design, edge calculation, equipment installation, engineering installation, intelligent iot system control, equipment maintenance and so on.

| Service process



| Performance pledge



Oil-free water-lubricated permanent magnet variable frequency screw air compressor

Product Features

DMWV-G series oil-free water-lubricated permanent magnet variable frequency screw air compressors

DMW-G series oil-free water-lubricated power frequency screw air compressors



Advanced water-lubricated screw main unit

1. Made of stainless steel, the machine head has no risk of rusting or corrosion.
2. Water is adopted as the medium for compression sealing and cooling. The air, after being rinsed with water, becomes cleaner and can be made completely oil-free.
3. In theory, single-screw air compressors have no clearance volume. At a constant speed, they have excellent dynamic lubrication performance and a very high working efficiency.
4. The single screw is balanced in both axial and radial forces. The star wheel rotates freely with the screw under the lubrication of the water film. Therefore, the main components operate smoothly under low loads, ensuring low noise and durability.



High-efficiency motor

dedicated to air compressors, imported Pintang bearings, protection grade IP54, insulation grade F, suitable for various working conditions, such as heavy dust, high temperature and other harsh environments. High-efficiency motor, higher efficiency, less power consumption, can significantly reduce usage costs over long-term use. The motor is designed with a large margin, featuring a large starting torque and meeting the full life service requirements under various working conditions.



Advanced and reliable electrical control system

Intelligent control system, with a good human-machine communication interface; High-quality electrical components are selected, and the contactors are of imported brands. The dedicated program is equipped with multiple pressure sensors and multiple temperature sensors to comprehensively detect the operating status of the unit. It automatically controls the machine status without the need for dedicated personnel to watch. The emergency stop function is equipped with a push-type emergency stop switch at a prominent position of the unit, which can immediately stop the machine in an emergency. Independent air duct design, suitable for various working conditions.

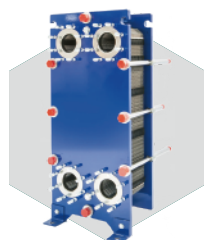
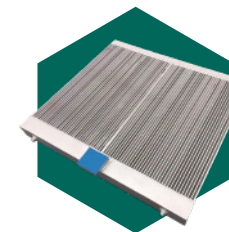


Plate cooler (for water cooling)

It is made by stacking metal sheets with a certain corrugated shape. The material is corrosion-resistant, easy to clean and has a long service life. It has a large heat exchange area per unit volume and high heat exchange efficiency, keeping the water temperature within a reasonable range all the time. It has a compact structure, is lightweight and occupies a small space.



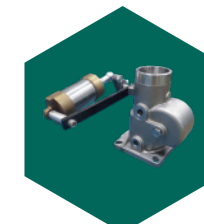
Tube-fin type air cooler (for air cooling)

The heat exchange tubes are made of copper and will not exchange ions with water. They are corrosion-resistant and have a long service life. Combined with high-efficiency axial flow fans, it has sufficient air volume and good cooling effect, and the external air duct is not prone to dust accumulation. The cooler is placed at the top, and the hot air is discharged upwards without backflow, ensuring a stable working temperature inside the machine.



High-efficiency water filtration

Filter IS full FLOW filter, shell of stainless steel material, special filter 芯, high filtration accuracy, long service life, can filter out the substance in the system to ensure clean lubricating water supply. Water filters are standard equipment in water circulation systems and are used to maintain the cleanliness of the system.



Special air intake valve

Youdaoplaceholder0 body made of corrosion-resistant material, suitable for all environments, high service life; The heavy hammer structure ensures accurate and rapid gas volume control with low pressure loss. High integration, no vulnerable parts, simple maintenance and convenient adjustment.



Effective water-gas separation bucket

It adopts an excellent cyclone separation structure design. Tests have proved that the water and gas separation effect is good. It is made of all stainless steel, which is corrosion-resistant. Three-level water level sensor alarm, automatic drainage and water replenishment.



Renewable ion-exchange water softener

The operation and regeneration process is fully automatically controlled and does not require manual operation. By using ion exchange resin, the hardness of raw water is reduced to achieve the purpose of softening hard water, prevent scaling and protect the system. The exchange resin is renewable and has a low usage cost.

DMWV-G series	working pressure		capacity		power		noise	Airoutlet pipe diameter	net weight kg	dimensions(mm)		
	bar	psig	(m³/min)	cfm	kW	hp	dB			length	width	height
DMW-22G	7	102	3.7	131	22	30	61±3	G1"	655	1350	1000	1200
	8	116	3.4	120								
	10	145	3.0	106								
DMW-30G	7	102	5.2	184	30	40	64±3	G1 1/2"	850	1920	1170	1400
	8	116	4.7	166								
	10	145	4.3	152								
DMW-37G	7	102	6.1	215	37	50	64±3	G1 1/2"	900	1920	1170	1400
	8	116	5.6	198								
	10	145	5.0	177								
DMW-45G	7	102	7.5	265	45	60	66±3	G1 1/2"	1320	1920	1170	1400
	8	116	6.8	240								
	10	145	6.0	212								
DMW-55G	7	102	10.0	353	55	75	66±3	DN50	1520	1930	1320	1535
	8	116	9.0	318								
	10	145	7.8	275								
DMW-75G	7	102	13.0	459	75	100	70±3	DN50	1750	1930	1320	1535
	8	116	12.0	424								
	10	145	10.0	353								
DMW-90G	7	102	15.5	547	90	120	70±3	DN50	1800	1930	1320	1535
	8	116	14.0	494								
	10	145	12.5	441								
DMW-110G	7	102	20.0	706	110	150	72±3	DN80	3100	2300	1600	1750
	8	116	18.0	636								
	10	145	16.0	565								
DMW-132G	7	102	25.0	883	132	175	72±3	DN80	3250	2300	1600	1750
	8	116	23.0	812								
	10	145	20.0	706								

Cooling method: (Air-cooled: DMW-22G~DMW-45G)、(Water: DMW-55G~DMW-132G)

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Cooling method: (Air-cooled: DMW-22G~DMW-45G)、(Water: DMW-55G~DMW-132G)

Application scenarios



Biological fermentation industry



Pharmaceutical industry



Food industry



Chemical fiber industry



Aerospace industry



Electric Power industry

Product Cases

A certain medical technology enterprise had previously used machines of the Decong brand and was quite satisfied with both the quality and after-sales service. The oil-free water sliding DMW series machines purchased this time are mainly used for gas supply in mask production. After the pandemic, the global demand for masks has increased significantly. In response to the national call and to fulfill the mission of the enterprise, it has also engaged in the production of masks. Considering the strict control of mask quality by the state, it has been decided to choose the oil-free rod-free unit of Demeng.



Energy Conservation

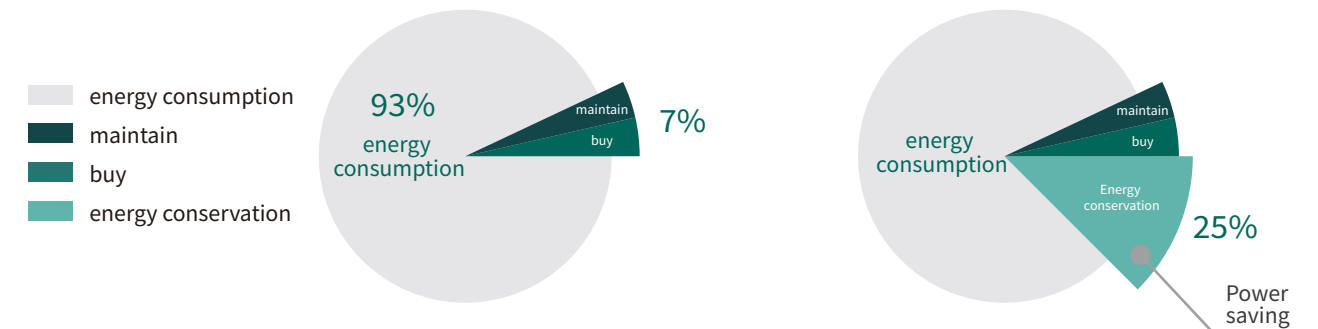
Air compressors are the "electric tigers" in industrial electricity consumption, with an average power consumption of 20%. We have made a series of efforts and research on how to use the same electricity to create more air to help users save energy, and have made important breakthroughs. The permanent magnet variable frequency screw machine developed by the company can save users about 25-35% of electricity while ensuring the original work efficiency.



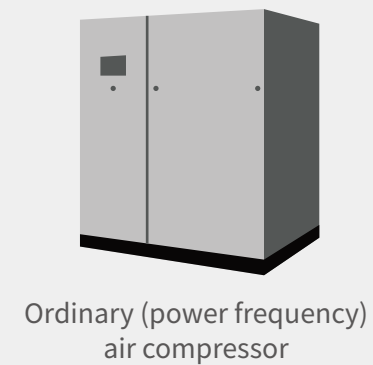
Energy saving and cost reduction

When purchasing an air compressor, the traditional cost (i.e. purchase cost+maintenance cost) only accounts for 7% of the total cost, while energy consumption accounts for 93%. The two-stage compression direct connection/permanent magnet screw air compressor saves 25-30% energy compared to ordinary (power frequency) air compressors.

— taking 75KW as an example



- intelligent control
- Rust proof shell
- Efficient and energy-saving
- Constant current and stable voltage
- Easy to use and worry free
- reduce the noise



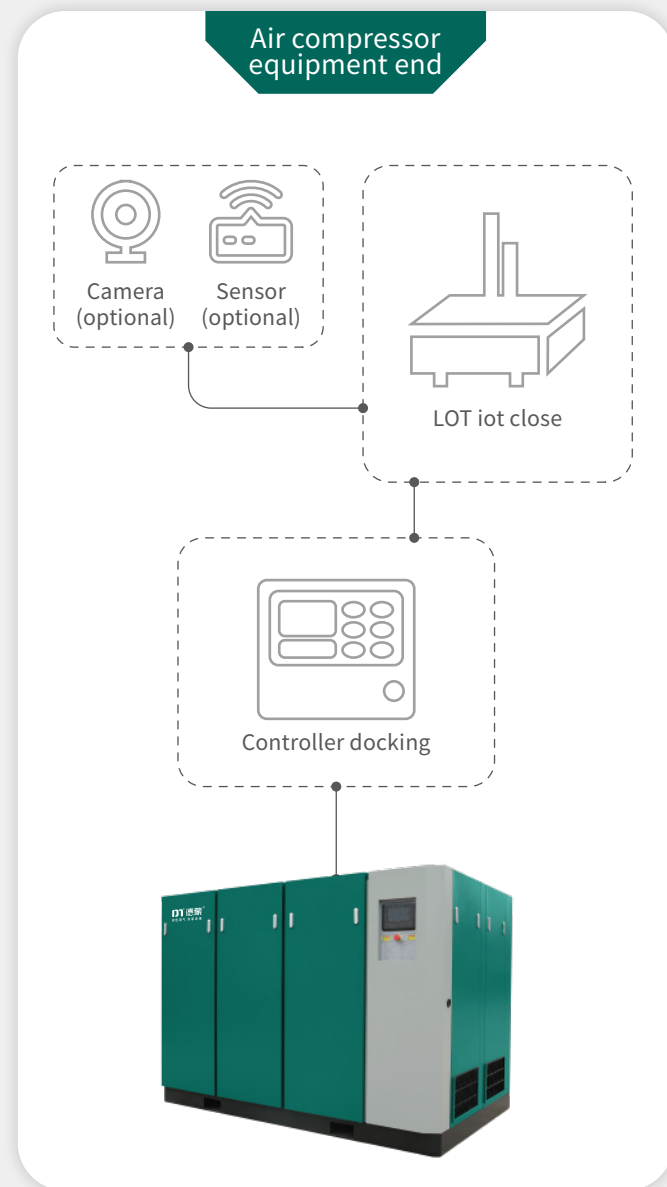
Intelligent control technology

cloud intelligent control three functions and value

- Digital station intelligent control**
 - reduce operation and maintenance costs by 10-30%
 - 3D virtual air compressor station
 - data Min monitoring
 - workshop diagnosis report
 - fault online prezi
 - maintenance cycle reminder

- Intelligent control Intelligent tuning**
 - reduce manual labor time by 50%
 - automatic control of air compressor
 - AI algorithm autonomous tuning
 - dynamic decision-making of equipment priority
 - intelligent control of auxiliary equipment

- Whole station energy saving 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



Digital station house
 Station monitoring + control (computer) air compressor, cold dryer, suction dryer, water, fan, waste heat recovery machine, flow meter, electricity meter, etc Intelligent monitoring technology Based on the "Internet of Things"

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.

