

STABLE | ENERGY-SAVING | CLEAN | AND EFFICIENT

DMW-A series Oil free vortex air compressor



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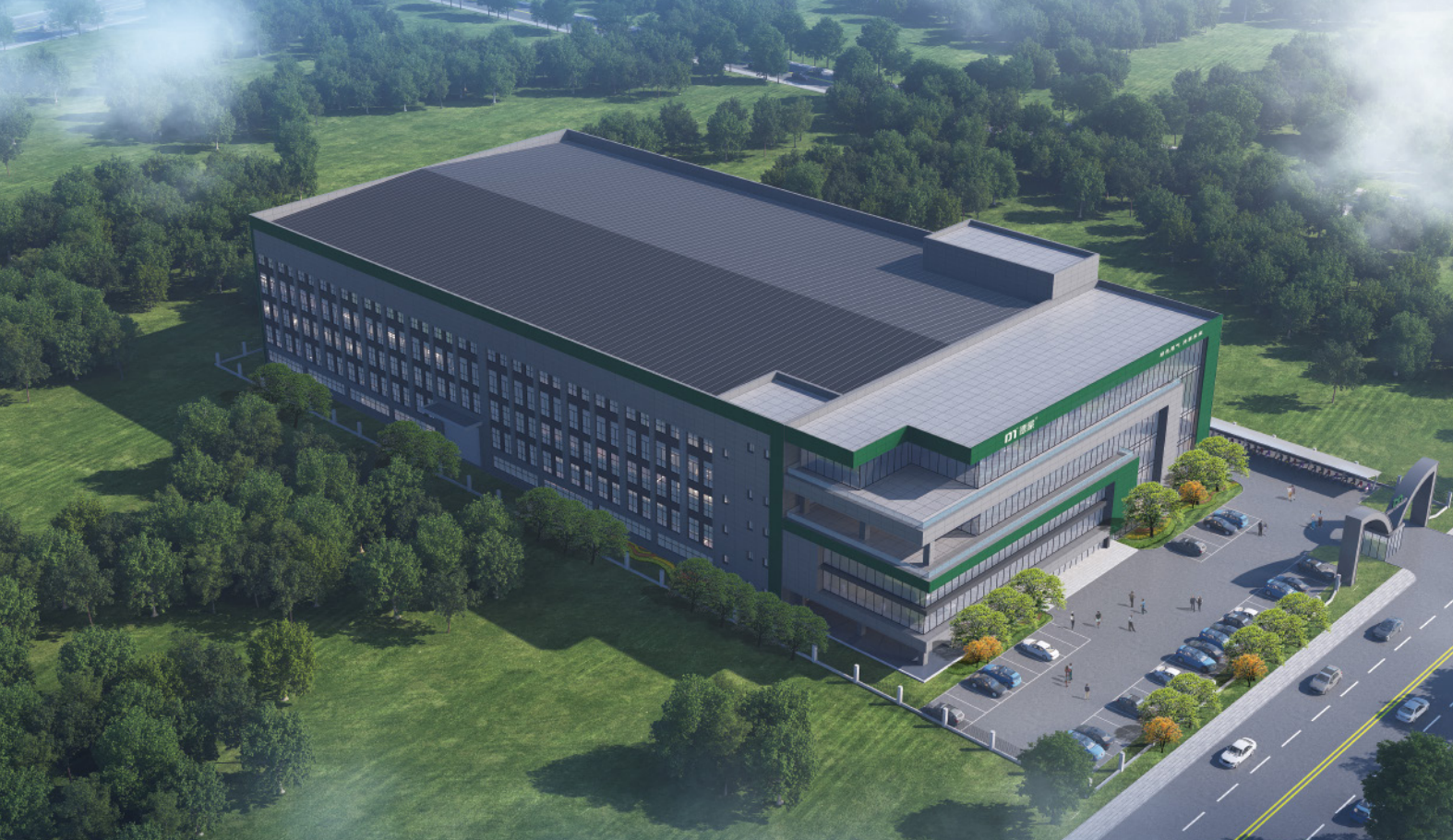
Dream(Shanghai) Compressor Co.,Ltd.



DMW-A series
Oil free vortex air compressor

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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.

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



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.



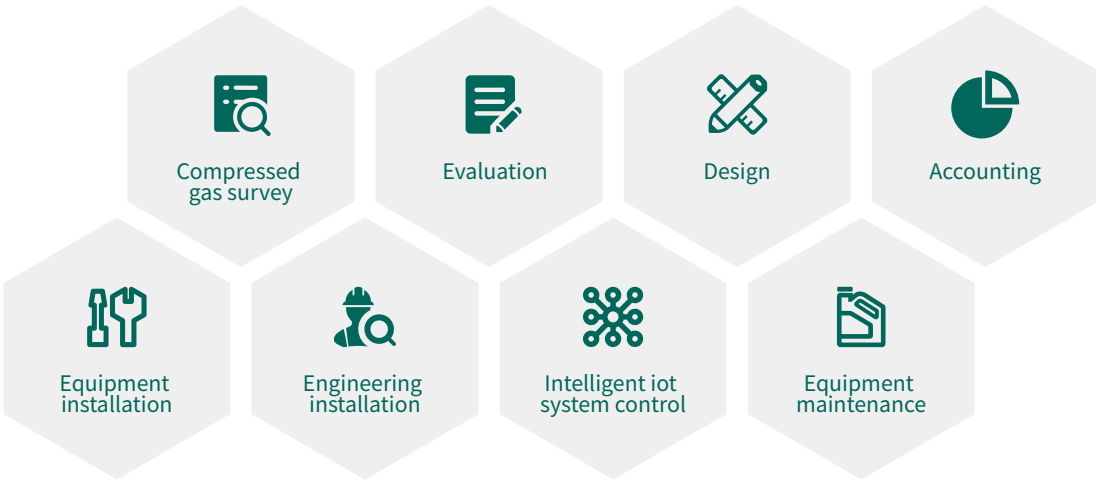
Dream Intelligent Manufacturing
Six core competencies



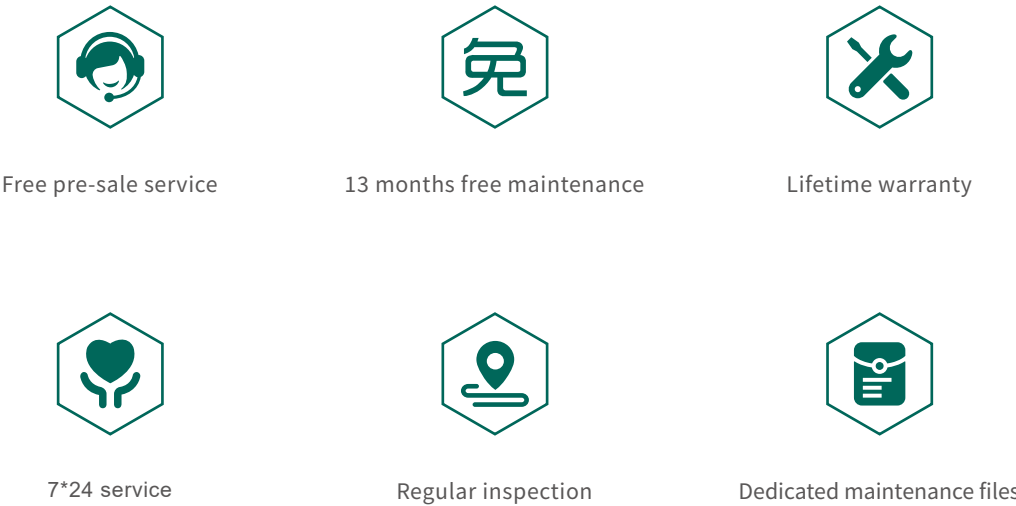
Full process cycle and service

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

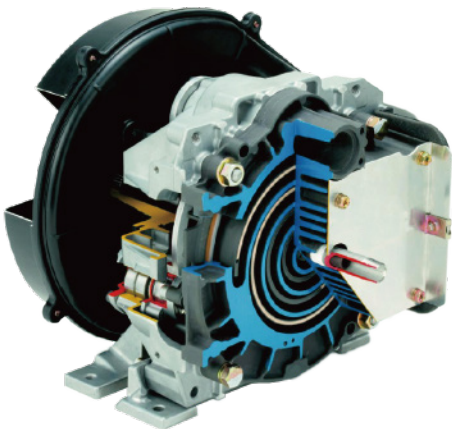


DREAM

Oil free vortex air compressor

Product characteristics

DMW-A series
Oil free vortex air compressor



Reliable performance of the original mainframe

The main engine adopts the design of dynamic and static scroll with three seals, which makes the compression process more stable. Multi-wing cooling fan for efficient cooling of the main engine.

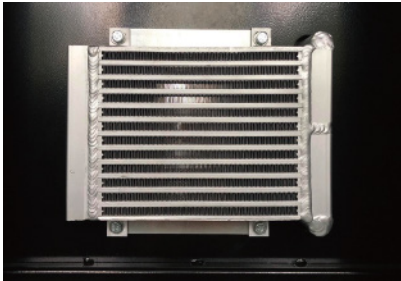
Efficient main motor

The well-known brand main motor is adopted, the energy efficiency grade is IE3, and the design standard fully meets the requirements of the air compressor for torque and load, so that the main motor can reach the highest working efficiency and power factor at full load and partial load. IP55 protection grade TEFC main motor, insulation class F, so that it can adapt to a variety of working environments, to ensure the reliability of the main motor.

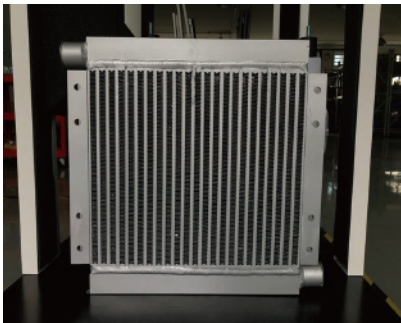


Secondary cooler with high heat transfer efficiency

Two level cooler design, cooling more fully. Each scroll host has a separate cooler (primary cooler), and the whole machine is equipped with a secondary cooler to further reduce the exhaust temperature. The fan of the secondary cooler can automatically start and stop according to the exhaust temperature, saving energy.



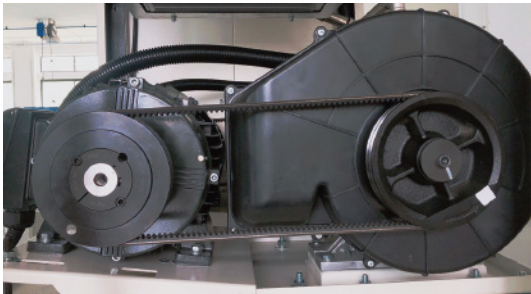
Primary cooler



Secondary cooler

Reliable transmission system

Traditional belt systems with automatic tensioning function maintain efficient operation throughout the running time. The system is easy to maintain, stable and reliable, and can protect the host to the greatest extent during startup.



GREEN ENERGY SHARED DREAM

Intelligent control system

Dream self-developed Smart Control control system can control up to 10 oil-free scroll hosts. When multiple hosts participate in the operation, the control system will make each host maintain the same running time to reduce the user's maintenance costs, the control system will also detect the running time of each host and the unit rotation time. If the "rotation time" is reached, the system automatically switches the running host, shuts down the host with the longest running time, and starts the host with the shortest running time.



Each host is controlled by an independent controller. The failure of a single controller does not affect the running of other hosts and is highly reliable. The controller complies with CE certification and has powerful functions. On the large color screen of the control system, the temperature of each host, the current of each motor, the running time, the exhaust pressure can be displayed, and it has a variety of functions such as reverse phase protection, maintenance reminders, etc., which is easy to use.





DMW-A series
Oil free vortex air compressor

Oil free vortex air compressor is a type of volumetric compression air compressor,with compression components consisting of a dynamic vortex plate and a static vortex. Its working principle is to use the relative orbital motion of the dynamic and static vortex plates to form a continuous change in the closed volume,achieving the purpose of compressing gas. Mainly used in air conditioning,refrigeration,general gas compression,as well as in scenarios where small and medium-sized air compressors are used for automotive engine boosters and vacuum pumps.

efficient Oil-free
main engine

YE3 High
efficiency motor

High heat exchange efficiency
Secondary cooler

Low noise

Independently developed
Smart Control
control system

The controller complies
with CE certification

Reliable transmission system

oil-free

DMW-A series	Top row Gas pressure	Volume flow (FAD)	cfm	Host machine power	Host machine framework	rated stress	noise Lv.	length	width	height	Airoutlet pipe diameter	net weight	note
	bar	L/min		kW		Mpa	dB(A)	mm	mm	mm		kg	
DMW-02A-8	8	240	8.48	3	2.2*1	0.8	60±2	640	660	890	1/2"	200	
DMW-02A-10	10	210	7.42	3	2.2*1	1	60±2	640	660	890	1/2"	200	
DMW-02SAT-8	8	240	8.48	3	2.2*1	0.8	60±2	660	960	1360	1/2"	280	Equipped with a refrigerated dryer/equipped with a 24L air storage tank/equipped with 2 precision filters
DMW-02SAT-10	10	210	7.42	3	2.2*1	1	60±2	660	960	1360	1/2"	280	Equipped with a refrigerated dryer/equipped with a 24L air storage tank/equipped with 2 precision filters
DMW-04A-8	8	410	14.48	3.7	3.7*1	0.8	60±2	640	660	890	1/2"	220	
DMW-04A-10	10	360	12.72	3.7	3.7*1	1	60±2	640	660	890	1/2"	220	
DMW-04SAT-8	8	410	14.48	3.7	3.7*1	0.8	60±2	660	960	1360	1/2"	300	Equipped with a refrigerated dryer/equipped with a 24L air storage tank/equipped with 2 precision filters
DMW-04SAT-10	10	360	12.72	3.7	3.7*1	1	60±2	660	960	1360	1/2"	300	Equipped with a refrigerated dryer/equipped with a 24L air storage tank/equipped with 2 precision filters
DMW-05A-8	8	600	21.19	5.5	5.5*1	0.8	60±2	640	660	890	3/4"	350	
DMW-05SAT-8	8	600	21.19	5.5	5.5*1	0.8	60±2	1490	800	1470	1/2"	410	With a cold dryer/with 200L gas storage tank/with 2 precision filters
DMW-07A-8	8	816	28.82	7.5	3.7*2	0.8	68±2	1060	690	1090	3/4"	300	
DMW-07A-10	10	760	26.85	7.5	3.7*2	1	68±2	1060	690	1090	3/4"	300	
DMW-11A-8	8	1200	42.39	11	5.5*2	0.8	68±2	1060	690	1090	3/4"	340	
DMW-11AI-8	8	1200	42.39	11	3.7*3	0.8	68±2	1060	690	1495	3/4"	430	
DMW-11AI-10	10	1080	38.15	11	3.7*3	1	68±2	1060	690	1495	3/4"	430	
DMW-15A-8	8	1600	56.52	15	3.7*4	0.8	70±2	1060	700	1965	1"	620	
DMW-15A-10	10	1440	50.87	15	3.7*4	1	70±2	1060	700	1965	1"	620	
DMW-16A-8	8	1800	63.58	16.5	5.5*3	0.8	70±2	1060	690	1495	1"	490	
DMW-18A-8	8	2140	75.59	18.5	3.7*5	0.8	70±2	1560	1265	1775	1"	840	
DMW-18A-10	10	1770	62.52	18.5	3.7*5	1	70±2	1560	1265	1775	1"	840	
DMW-22A-8	8	2550	90.07	22	5.5*4	0.8	70±2	1060	700	1965	1"	700	
DMW-22AI-8	8	2550	90.07	22	3.7*6	0.8	70±2	1560	1265	1775	1"	910	
DMW-22A-10	10	2110	74.53	22	3.7*6	1	70±2	1560	1265	1775	1"	910	
DMW-30A-8	8	3400	120.10	30	3.7*8	0.8	75±2	1560	1265	2020	1 1/4"	1140	
DMW-30A-10	10	2810	99.26	30	3.7*8	1	75±2	1560	1265	2020	1 1/4"	1140	
DMW-33A-8	8	3600	127.16	33	5.5*6	0.8	70±2	1560	1265	1775	1 1/4"	1160	

Application Scenario

DMW-A series oil-free scroll air compressor has the characteristics of high air quality (class 0 oil-free), low noise, convenient maintenance and high reliability. It is widely used in medical fields, laboratories, bio pharmaceuticals, food industry, electronics and semiconductor industries.



Product Cases



The oil-free scroll air compressor of Dream DMW-7A is used in a pharmaceutical industry in Tianjin to provide clean and worry-free high-quality compressed air for pharmaceutical laboratories. The unit has low vibration and low noise. It is installed next to the laboratory and runs stably without affecting the normal work of the laboratory.

Total Solution

Dream provides customers with a full range of services, from equipment selection, evaluation, design, accounting to equipment installation, engineering installation, intelligent IoT system control, equipment maintenance and other complete system solutions.



Energy Conservation

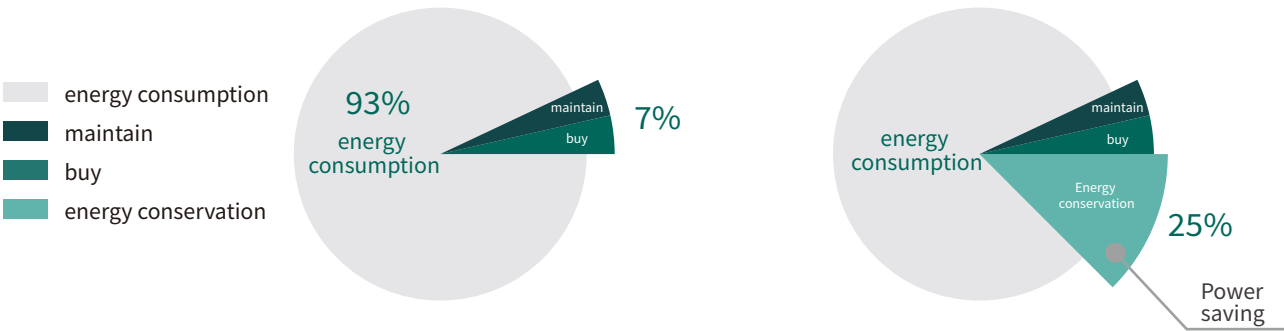
Air compressors are the "electric tigers" in industrial electricity consumption,with an average power consumption of 20%. We have made a series of efforts and research on how to use the same electricity to create more air to help users save energy,and have made important breakthroughs. The permanent 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.

— aking 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

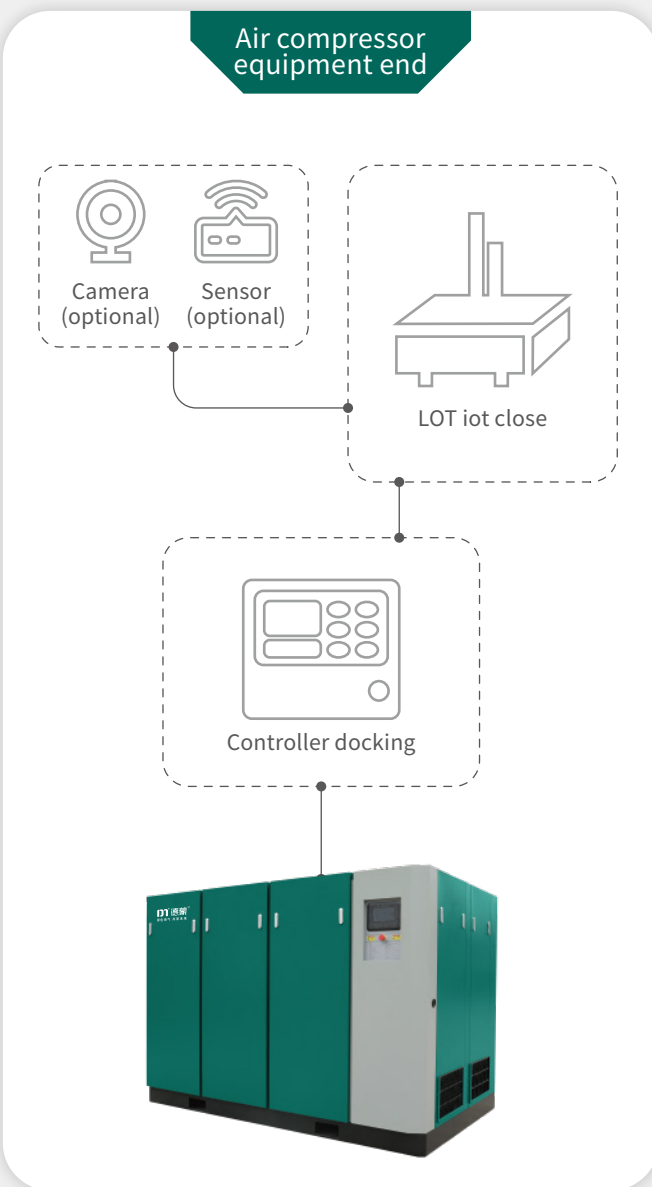
cloud intelligent control three functions and value

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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.

