

STABLE | ENERGY-SAVING | CLEAN | AND EFFICIENT

DHV-A/G series Permanent magnet variable frequency single stage



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Dream(Shanghai) Compressor Co.,Ltd.

01



DHV-G series
Permanent magnet variable
frequency single stage compression
screw air compressor

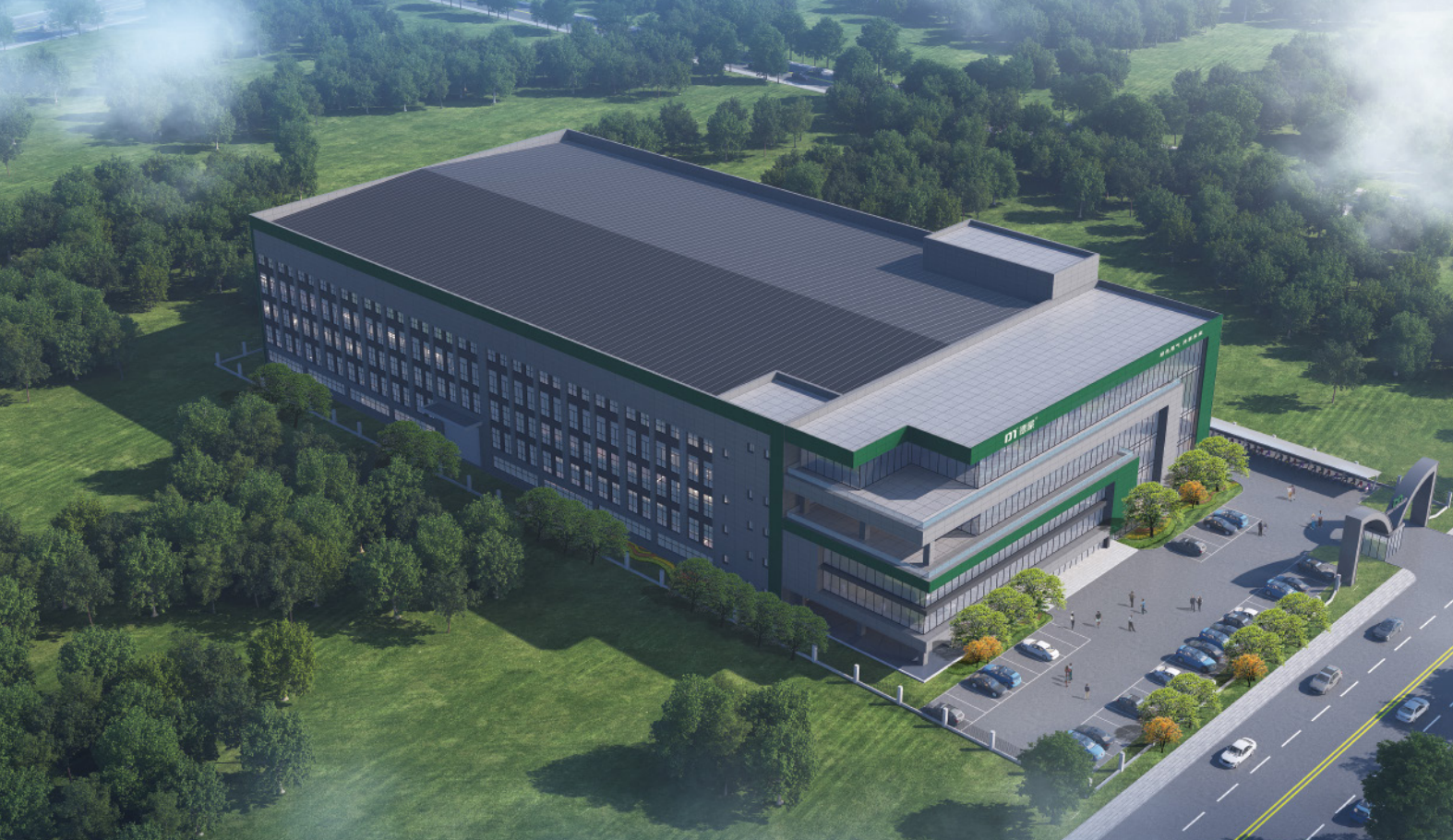
02



DHV-A series
Permanent magnet variable
frequency single stage compression
screw 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.



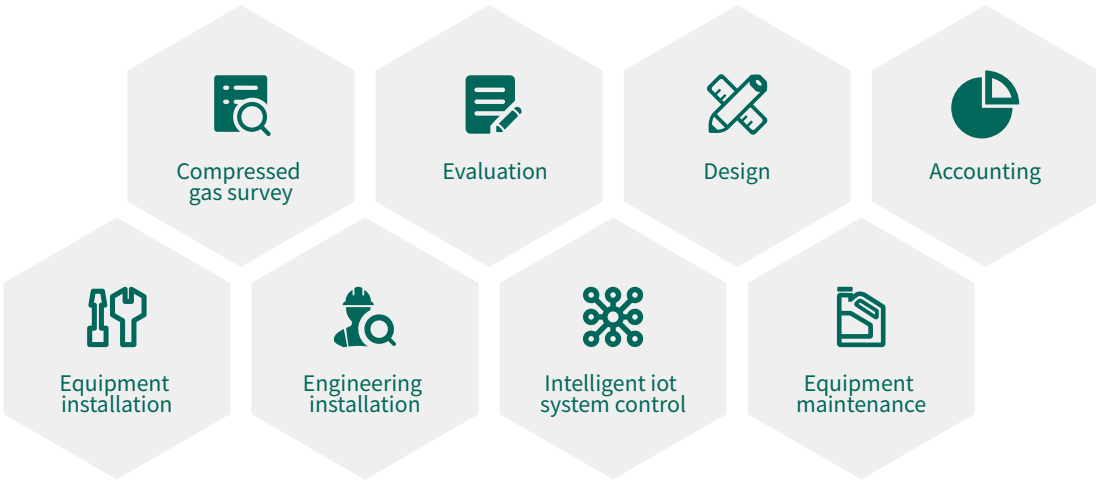
Dream Intelligent Manufacturing
Six core competencies



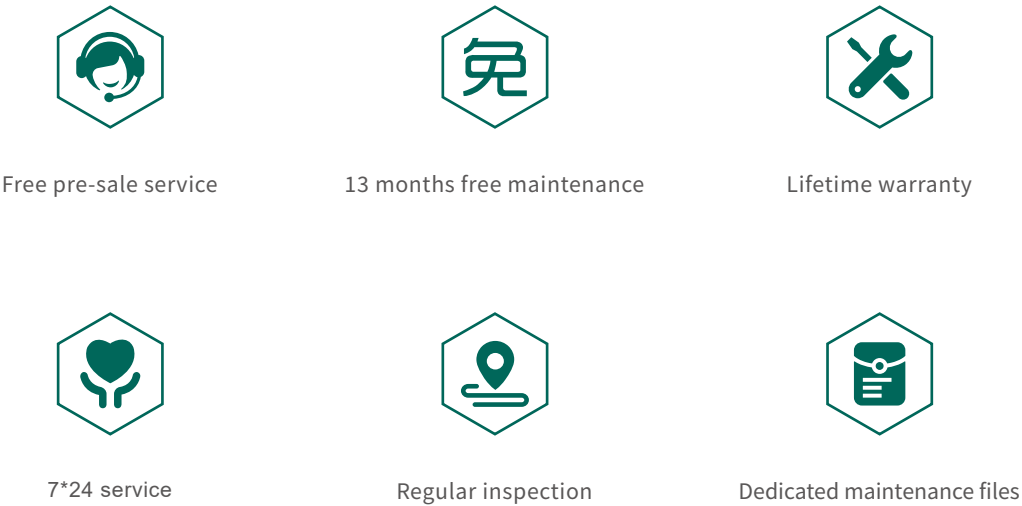
Full process cycle and service

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



DHV-A/G series Permanent magnet variable frequency single stage compression screw air compressor

Product Features



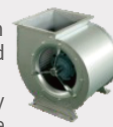
01 A durable, efficient and stable main unit

1. Adopting the design idea of "large rotor, large bearing, low speed" to reduce noise and vibration, and increase the life and stability of the air end;
2. The tooth surface is processed by a rotor grinder to create a high-precision rotor, which is the first guarantee for the air end's high efficiency and stability;
3. Adopting a new type of 5:6 asymmetric rotor tooth profile, high-precision three-coordinate measuring machine for comprehensive measurement, increase the exhaust volume by 5%-10%;



02 Low-noise centrifugal fan + high-efficiency heat exchange

1. Use forward-inclined centrifugal fan with specially designed cooler, good cooling effect and low noise of the whole machine;
2. The modular design of the cooler effectively eliminates thermal stress, has a long service life and good heat exchange effect.
3. Internal hot and cold partition design, independent air intake of cooling fan, good cooling effect.



03 Customized vector inverter

1. Professional customization, perfect match with the main motor.
2. Fully monitor various parameters of the motor, including motor temperature, to reduce the risk of motor overheating
- 3 Independent air duct design, strong environmental use capability.
- 4 Fast response, greater low-frequency torque.



04 High-efficiency permanent magnet motor

1. Integrated design, coaxial with the main engine male rotor, no coupling and gearbox, less energy loss and higher efficiency;
2. Made of 38UH magnetic steel, with strong magnetism, high temperature resistance and no demagnetization.



05 High-quality three filters

1. The filtration area of the air filter exceeds 150% of the normal requirement, the intake pressure is low, and the energy efficiency is good
2. The oil filter adopts enlarged imported glass fiber material, and the rated separation capacity of the oil filter is >1.3 times the circulating oil volume, with high filtration accuracy and good durability;
3. The oil separator core is made of imported glass fiber material, with good filtration effect and low pressure loss of the oil separator core
4. The three filter positions are reasonably designed, which is convenient for maintenance and reduces downtime.



06 Special valve group

1. Special intake valve for screw compressor, easy to start the unit, with automatic adjustment function, low flow rate, low pressure loss, reduced energy consumption, low intake noise
2. Reliable minimum pressure maintenance valve, low pressure loss, precise control, ultra-fast return seat, to ensure that the user's gas does not flow back.
3. Temperature control valve (part): Mixed flow temperature control valve: The unit is equipped with a mixed flow temperature selector valve to ensure that the unit is more convenient to start in a low temperature environment and to ensure the oil supply of the unit at any time; by controlling the main engine oil supply temperature to ensure that the unit is in the best performance state.





DHV-G/A series

Permanent magnet variable frequency single stagecompression screw air compressor

Stable air pressure, no impact to start, variable flow control, AC power supply voltageadaptability better. Silent centrifugal fan, energy saving constant pressure output, oicooled permanent magnet variable frequency motor that can reach IP65, large coolerdesign, hot and cold partition, man-machine AC interface touch screen controllerreal-time monitoring operation status.



Quiet, energy saving
Constant voltage output



Silent centrifugal fan



Man-machine Ac interface
touchscreen controller
real-timemonitoring operation status



IP65 oil cold foreverMagnetic
variablefrequency motor



Super large cooler design



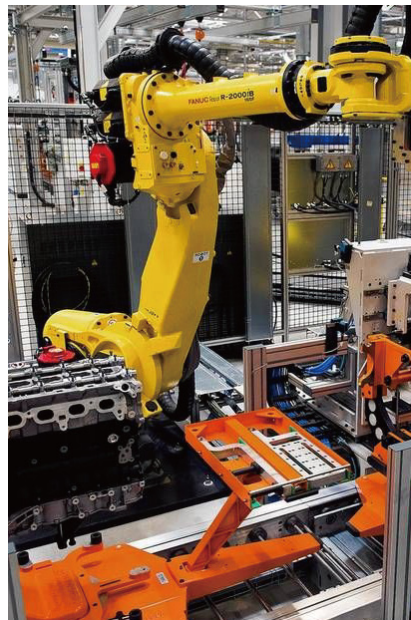
Cold and hot zone design

DHV-A series	Workingpressure		Capacity		power		noise	Air outlet pipe diameter	net weight kg	dimensions(mm)		
	bar	psig	(m³/min)	cfm	kW	hp	dB			length	width	height
DHV-7A	8	116	0.2-1.2	7-42	7.5	10	55±3	G3/4"	150	690	540	980
	10	145	0.2-1.0	7-35								
	13	189	0.2-0.8	7-28								
DHV-11A	8	116	0.5-1.9	17-67	11	15	57±3	G1"	200	870	600	1230
	10	145	0.3-1.6	11-57								
	13	189	0.3-1.2	11-42								
DHV-15A	8	116	0.6-2.5	21-88	15	20	58±3	G1"	250	870	600	1230
	10	145	0.5-1.9	17-67								
	13	189	0.5-1.76	17-62								
DHV-22A	8	116	0.9-3.8	32-134	22	30	59±3	G1"	280	870	600	1230
	10	145	0.9-3.3	32-117								
	13	189	0.7-2.57	25-91								
DHV-37A	8	116	1.7-6.8	60-240	37	50	62±3	G1 1/2"	450	1040	720	1400
	10	145	1.5-5.6	53-198								
	13	189	1.4-4.8	45-169								

DHV-Gi series	Workingpressure		Capacity		power		noise	Air outlet pipe diameter	net weight kg	dimensions(mm)		
	bar	psig	(m³/min)	cfm	kW	hp	dB			length	width	height
DHV-15Gi	8	116	0.6-2.5	21-88	15	20	58±3	G1"	250	870	600	1230
	10	145	0.5-1.9	17-67								
	13	189	0.5-1.76	17-62								
DHV-22Gi	8	116	0.9-3.8	32-134	22	30	59±3	G1"	280	870	600	1230
	10	145	0.9-3.3	32-117								
	13	189	0.7-2.57	25-91								
DHV-37Gi	8	116	1.7-6.8	60-240	37	50	62±3	G1 1/2"	450	1040	720	1400
	10	145	1.5-5.6	53-198								
	13	189	1.4-4.8	45-169								
DHV-45Gi	8	116	3.2-8.1	113-286	45	60	63±3	G2"	800	1476	1083	1360
	10	145	2.8-7	99-247								
	13	189	2.2-5.6	79-198								
DHV-55Gi	8	116	2.6-10.6	92-374	55	75	65±3	G2"	900	1476	1083	1360
	10	145	3.5-8.8	124-311								
	13	189	3.0-7.7	106-242								
DHV-75Gi	8	116	5.6-13.3	198-470	75	100	67±3	G2"	980	1476	1083	1360
	10	145	4.2-12.1	171-427								
	13	189	4.0-9.9	140-350								

Application scenarios

DHV-A/G series permanent magnet variable frequency single-stage compression screw air compressor uses a high-efficiency twin-screw compression main unit equipped with an IE5-level ultra-high-efficiency integrated oil-cooled permanent magnet motor, which reduces the use of parts, improves transmission efficiency, and reduces failure rate; uses a large cooler and a multi-wing centrifugal fan, with high wind pressure, low noise, and good cooling effect; a 7-inch color touch screen controller monitors the operating status of the unit in real time, and comes standard with a 485 communication interface for easy centralized control operation; the whole machine has a first-level energy efficiency, low operating cost, and is suitable for operation in various working conditions. It is also suitable for various industries such as the electrical industry, chemical industry, textile industry, and medical industry.



Product Cases



A certain HVAC Technology Co., Ltd. has a total investment of 12 million RMB, covers an area of 2,400 m², a plant area of 7,300 m², and an office building of 1,200 m². The company produces low-carbon steel tubular radiators and electric radiators that meet European market standards, with an annual production capacity of 150,000 sets. Our sales staff learned that the customer was looking for environmentally friendly and energy-saving air compressor products, and rushed to the customer site for technical communication and model selection as soon as possible. They comprehensively analyzed the advantages of Dream products and the subsequent energy-saving effects from the aspects of energy efficiency, after-sales, and technology. The customer highly recognized our energy-saving effects and after-sales service, and finally chose Dream DHV-37A.

Overall Solution

Dream Air Compressor is committed to providing integrated compressed air solutions and one-stop services to meet the needs of various industries for high-quality compressed air. Dream Air Compressor has a full range of models, including piston, screw, scroll, micro-oil, oil-free, water-lubricated, industrial frequency, variable frequency, permanent magnet variable frequency, belt, direct connection, integrated machine, single-stage compression, two-stage compression, fixed machine, mobile machine, low pressure, medium pressure (normal pressure), high pressure, etc., post-processing equipment and other 17 product series, involving more than 500 products for customers to choose from.



Energy Conservation

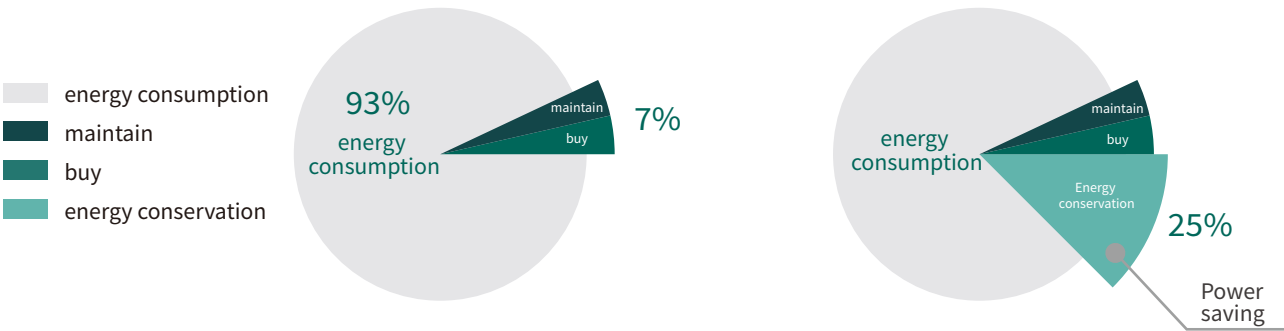
Air compressors are the "electric tigers" in industrial electricity consumption,with an average power consumption of 20%. We have made a series of efforts and research on how to use the same electricity to create more air to help users save energy,and have made important breakthroughs. The permanent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

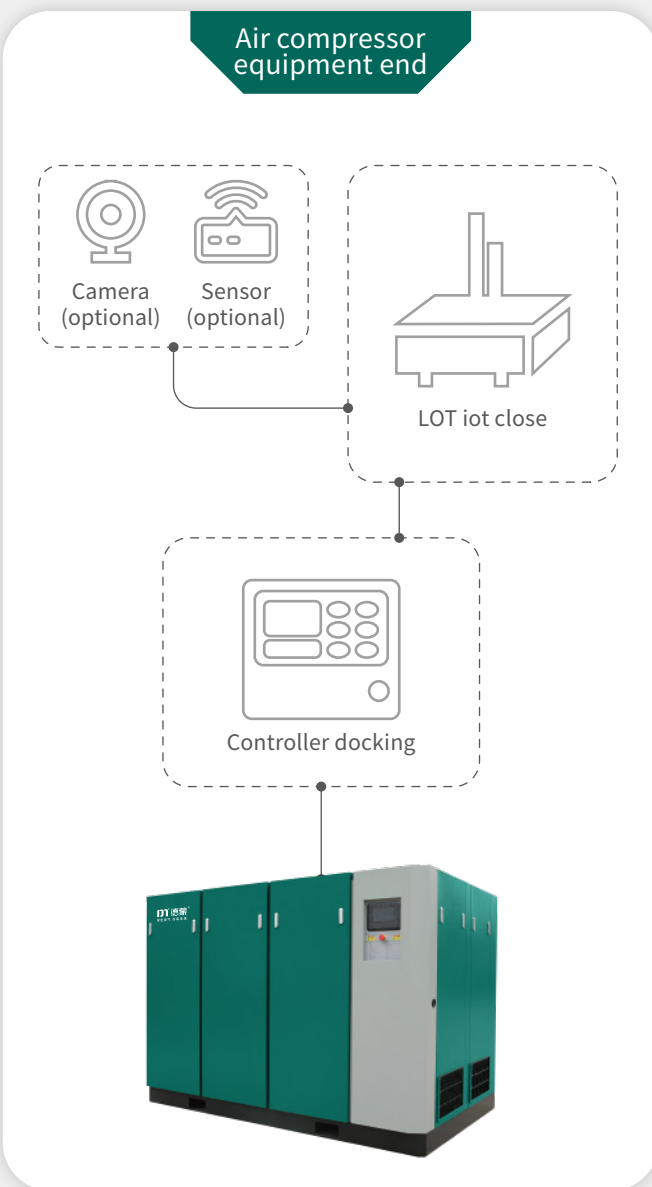
cloud intelligent control three functions and value

- 

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.

