XINLEI COMPRESSOR CO.,LTD.

XINLEI

STOCK CODE 301317

XINLEI COMPRESSOR CO.,LTD.

ENERGY-SAVING AIR COMPRESSOR

INDUSTRY CUSTOMIZATION

- Grade 1 energy efficiency
- 30% energy saving
- High efficiency and stability
- Smart IOT



XINLEI COMPRESSOR CO.,LTD.

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The models and technical parameters provided in this catalog are subject to the actual products and may be changed without notice. Thanks for understanding.
Please contact the sales person for more product information and service materials. Xinlei reserves the right of final interpretation of this catalog.

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Focus on the customer's challenges and pressures. Provide competitive air energy system solutions and services. Continue to create maximum value for customers.

Founded in Zhejiang, China in 2006. Xinlei is a high-tech enterprise with independent research and development intellectual property rights covering the whole fluid field such as piston, screw and centrifugal. We focus on aerodynamic full-scenario digital and intelligent solution, strive to be a wold-class enterprise with world-class standards, create and share digital and intelligent fluid ecology with global customer partners.

AIR FOR ALL

XINLEI COMPRESSOR CO.,LTD.

- **149,000+m² floor area**
- **800,000+ units yearly production**
- **100+ sales area**
- **300+ patents**
- **300+ product specifications**
- **260+ high quality precision equipment**

COMPANY HONOURS

Draft 6 national standards & 4 industrial standards & 7 Team standards

High-tech enterprise

National Development and Reform Commission National Key energy-saving and low-carbon technology Promotion Catalogue yearly continuous

Zhejiang first batch of domestic and foreign trade integration "pacesetter" enterprises

Ministry of Industry and Information Technology "Energy Efficiency Star" equipment product catalog yearly continuous

National Torch Program Project Certificate

Vice president unit of China General Machinery Industry Association

The sixth council of China Equipment Management Association

The sixth council of China Equipment Management Association

Member of China Chamber of Commerce for Import and Export of Mechanical and Electrical Products

National Energy Efficiency Labeling Testing Laboratory

Petrochina and Sinopec Engineering Research Association-Air Compressor Technology Center

Zhejiang Provincial Enterprise Research Institute of Xinlei Fluid Machinery

Zhejiang export famous brand & "Made in Zhejiang" Standard

2020 Excellent supplier in cement industry

2021 China's industrial aquatic innovation equipment

Energy-saving products benefits project high energy efficient positive displacement air compressor promotion enterprise

COMPANY EVENTS AND DEVELOPMENT

1996
Xinlei brand was founded in the national "the Ninth Five-Year Plan" economic take-off era.

2000
Xinlei self-developed and self-produced air compressor products entered the European and American markets.

2005
Built a modern industrial park with an area of 200,000㎡. Well-known as a provincial garden-style unit.

2006
Faced with the "EU anti-dumping" lawsuit and won the first trial verdict.
The company's daily output was 12,000 units, accounting for more than 56% of EU market customs export data.

2013
The self developed and produced screw air compressor engine began to enter the market. Put forward a series of revolutionary changes in the industry.

2016
An additional investment of RMB 160 million was used to purchase equipment. The double screw super energy efficiency
air compressor was developed. The annual output is 800,000 pieces of various types machines.

2017
Conducted industry-university with "Project 985" -Dalian University of Technology to lay out fluid ecology and had made the initial breakthrough in China's air/magnetic levitation centrifuge market.

2020
In the face of the COVID-19 outbreak, Xinlei assisted Sinopec's mask production line, replacing Korean machines to increase production by 30% and save energy by 50%. A major step had been taken on the road of "domestic substitution" in high-end manufacturing.

2021
Deeply cultivate the global energy conservation and environmental protection industry. Create and share full scenario solution for aerodynamics. Awarded the "Actual Measure & Actual Mark Demonstration Base" to provide customers with reliable products and real national energy efficiency standards.

2023
Listed on the Shenzhen Stock Exchange on January 19th, stock code 301317.

DEVELOPMENT HISTORY

Zhong Renzhi
Chairman

EMBA from Shanghai Jiao Tong University;
Deeply plow in the field of aerodynamics;
Proposed a number of industry break-through issues;
Applied for more than 200 patents.

Yuan Jun
CTO

Contract Energy Management Engineer (Senior), Engaged in the air compressor industry for nearly 20 years;
Mainly waiting for a number of air energy full-scene implementation plans, claiming 120+ patents.

Shen Yiming
PD

Nanyang Technological University (NTU), Singapore: Ph.D. and Postdoctoral Fellow in Electrical Engineering. He has been engaged in the research of magnetic levitation linear propulsion systems and direct-drive precision servos for a long time. He has presided over one youth project of the National Natural Science Foundation of China (NSFC). He is also the chair of two special and upper-level grants from the China Postdoctoral Science Foundation. He has published over 40 SCI/EI papers in critical academic journals and conferences at home and abroad. Authorized more than 10 invention patents.

RESEARCH & DEVELOPMENT TEAM









MAZAK high precision machining center



KAPP rotor grinder machining center



ZEISS three-coordinate testing center







Fine machining center

PROCESSING STRENGTH

From raw material procurement, spare parts processing, complete machine assembly to performance testing, Xinlei always strict with quality control. The company has the world advanced MAZAK high-precision machining center, KAPP rotor grinder machining center, high-precision ZEISS CMM and robot configuration refinement processing center, to build Xinlei a refinement and advanced production&processing center, to ensure the core components of self-research and production, and the high efficiency collaborative accuracy.

260+

high quality precision equipment to guarantee the high quality of products

PROCESSING STRENGTH

CHOICE OF FORTUNE 500 COMPANIES

Open borders, grow together and continue to create value for global customers

ASD 爱仕达

湖北新冶钢 HUBEI XINYEGANG

国机集团 SINOMACH

BBMG

中通客车 ZHONG TONG BUS

ZONGSHEN

TCC

中国能建 ENERGY CHINA

国家能源集团 CHN ENERGY

东方希望 EAST HOPE

SCC深南电路

紫金矿业 ZIJI MINING

GREE 格力

Haier

CONCH 海螺水泥

Kingboard 建滔

sinoma

中国中车 CRRC

ASIASTAR

MENGNIU 蒙牛

TSINGTAO 青島啤酒

钱江集团 QIANJIANG GROUP

BAOWU 中国宝武

万年青 WANNIANQING

包钢集团 BAOGANG GROUP

SUNNSY 山水集团 SUNNSY GROUP

GOLDEN DRAGON 金旅客车

GDH 粤海

XINLEI AIR ENERGY
FULL SCENARIO SOLUTION

TOTAL SOLUTION



01

Pre-sales engineers plan and consult

Customer interview/demand survey

Technical communication and product demonstration

02

Project investigation and confirmation

Customized scheme selection/ project team

Whole process of tracking and completion

03

Delivery guarantee

Offline site testing

Focus on actual demand

Flexible reforming scheme

04

After-sales engineers worry-free

24 Hours 400 hotline

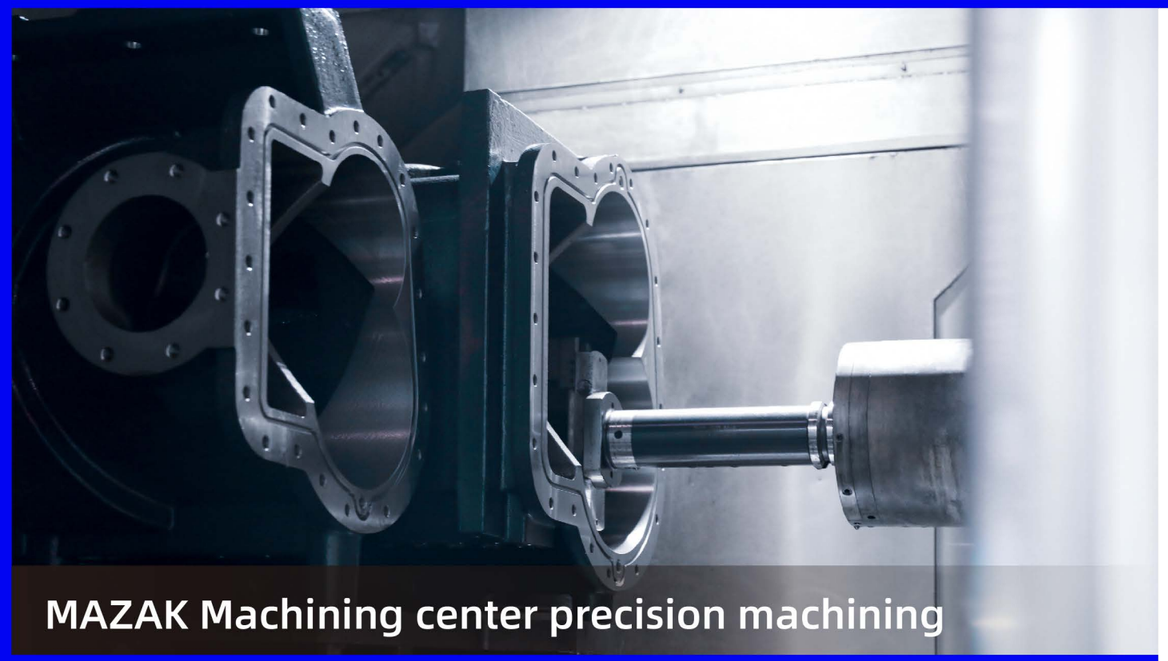
Lightweight work order access by Wechat

Full technical Q&A videos

The core components are

85% patented

High precision integrated coordination



MAZAK Machining center precision machining

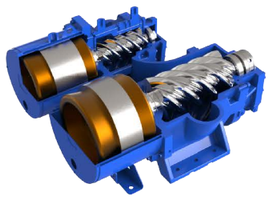


Energy-saving profile optimization

Through in-depth analysis of energy-saving needs and continuous optimization of product structure, Xinlei's technical team has continued to upgrade the V series profile with years of technical accumulation. With its high volumetric efficiency, reasonable drive contact points and small area of the exhaust side leakage triangle, this line has become one of the more energy-efficient lines in the screw line sector.

Two-stage oil-cooled compression host

Maintaining the ideal temperature. Low-noise working environment. IP65 oil-cooled motor with high protection level. No bearing mechanical and cooling fan losses. Low noise and vibration, **3-10% more efficient** than asynchronous motors of the same capacity.



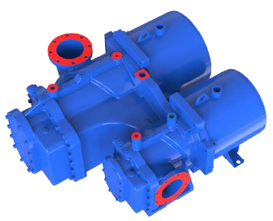
Two-stage Compression Elements

No rotor slip, no electrical excitation, no fundamental iron and copper losses in the rotor and less heat generation, reducing stator current and stator resistance losses.The motor has a **5-8% higher efficiency** compared to asynchronous motor of the same capacity. High motor efficiency is maintained especially at low speeds.



Synchronous motor Stepless speed control

Electronic speed control is used in the two-stage compression, and the first and second stage hosts realize synchronous stepless speed control to meet different needs. Motor efficiency **95.5%**, energy **saving 4.1%**, large torque and smooth running.



INNOVATION

WHOLE STRUCTURE

WHOLE STRUCTURE

Oil-cooled screw air compressor

Normal pressure Two-stage compressor series

High efficiency filtration system

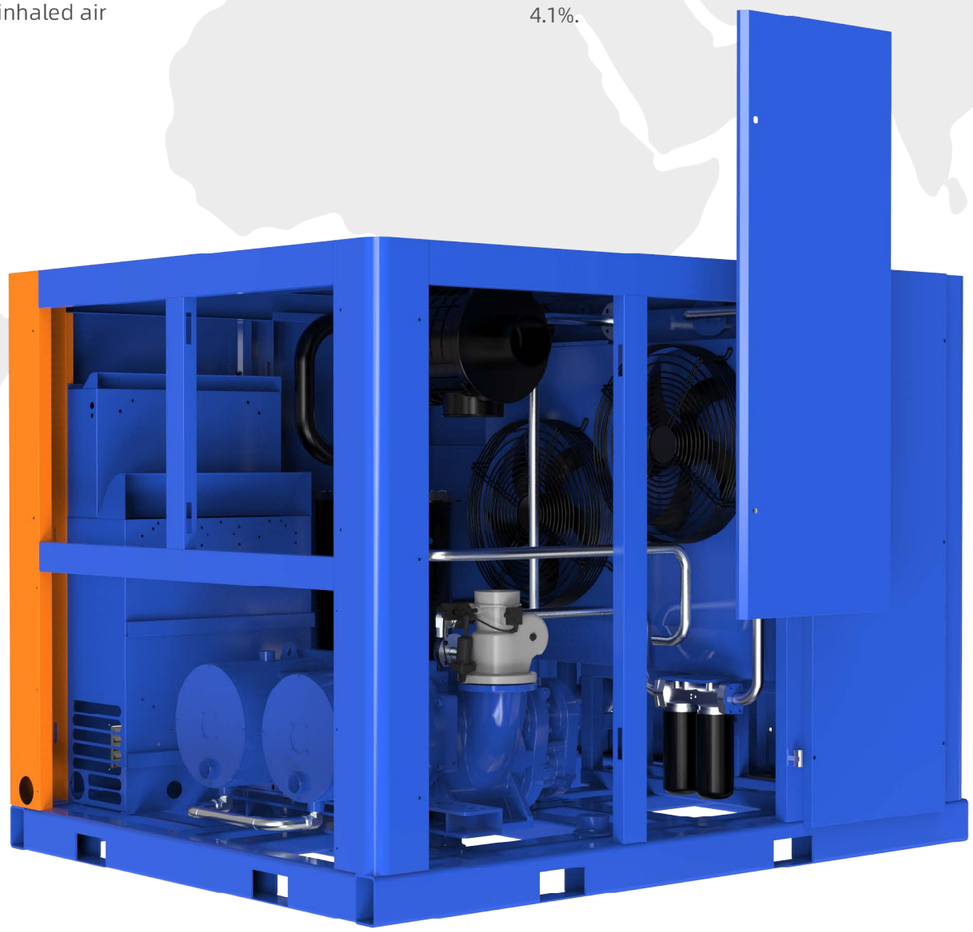
-Efficient oil and gas separator so that exhaust oil content is less than 3ppm;
-High-efficiency oil filter, filter out impurities in lubricating oil, provide clean lubricating oil for the rotor and bearing of the head;
-High-efficiency horizontal air filter, filter the dust impurities in the inhaled air so that the rotor, bearing, etc.free from damage.





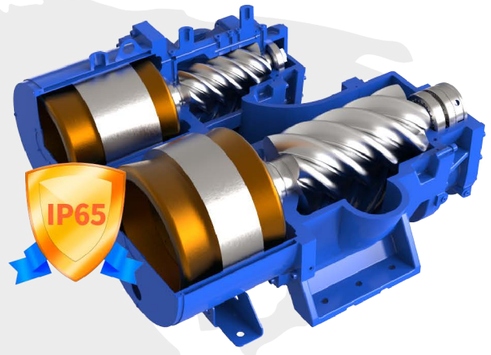
Dual variable frequency constant temperature and pressure system

-Increased radiator area, rust-proof and anti-corrosion coating on the surface, and easy-to-clean design, ensuring a long lifespan and excellent heat dissipation.
-This system maintains a constant temperature during operation, preventing issues like oil line blockage and carbon buildup due to high temperatures.
The air compressor runs smoothly and has a longer lifespan, while avoiding high-temperature shutdowns.



Two-stage oil-cooled compression host

-Maintaining the ideal temperature. Low-noise working environment. Higher protection level.
-One and two-stage host for wide frequency adjustment. Large rotor, low speed. Its horizontal structure, which is horizontally arranged, has a lower centre of gravity, more stable operation and lower noise.
-Host and motor one-piece structure. Transmission loss is reduced to zero, transmission efficiency is 100%
-IP65 oil-cooled motor with high protection level. No bearing mechanical and cooling fan losses. Low noise and vibration, 3-10% more efficient than asynchronous motors of the same capacity. Motor efficiency 95.5%, energy saving 4.1%.



Intelligent control system

-On-site, mobile phone, computer at the same time intuitive display, users, service providers, manufacturers synchronous display: running state, running data, fault warning;
-Real-time on-line monitoring of pressure, power, temperature fluctuations;



Cooling system

-Plate-fin air-cooled heat exchangers or shell-and-tube water-cooled heat exchangers are used to suit customers with different usage conditions.
-The heat exchanger is designed and manufactured to increase the heat exchange area by more than 30%.
-It still has a good cooling effect when the ambient temperature is 45℃; it ensures that there will be no shutdown at high temperature, and at the same time prolongs the life of lubricating oil by 20%.





SUPER ENERGY

Oil-cooled screw air compressor

- Power:22-315kW
- Pressure:
  Normal pressure 6-10bar

Real better than Grade 1 energy efficiency

-Better than national level 1 energy efficiency (GB/19153-2019 level 1 energy efficiency standard)
-More than 30% energy saving than ordinary air compressor.

Horizontal two-stage compression

-Double coaxial integrated structure. 100% transmission efficiency
-Staged compression. Isothermal compression. Improved energy efficiency. 15% energy saving at the same displacement.
-Horizontal structure, horizontal layout, low center of gravity, small vibration, more stable operation

Oil-cooled high-efficiency permanent magnet motor

-Maintain ideal temperature, low noise working environment, higher protection level
-Dual permanent magnet synchro-nous motor. Motor efficiency 95.5%. Energy saving 4.1%

Smart IOT

-IOT remote control, standard with air energy operation and mainte-nance platform

Selected in the National Development and Reform Commission's
"National Key Energy-saving and Low-carbon Technology Promotion Catalogue"



SUPER ENERGY

Water-cooled screw air compressor

- Power： 110-315kW
- Pressure：
  Normal pressure7-8bar

Real better than Grade 1 energy efficiency

-Better than national level 1 energy efficiency (GB/19153-2019 level 1 energy efficiency standard)
-More than 30% energy saving than ordinary air compressor.

system optimization

-The system press ure loss has decreased by less than 0.2 bar, with dual optimization of the three-filter system and the pressure loss system, ensuring that the equipment always operates efficiently and smoothly

Independent air duct structure

-The inverter is designed with an independent air duct for external air suction, which improves the air distribution effect and reduces the failure rate of the inverter
-An independent air duct is set up for the compressed gas inlet, allowing the intake of compressed gas that is about 8°C lower than the temperature inside the machine

Smart IOT

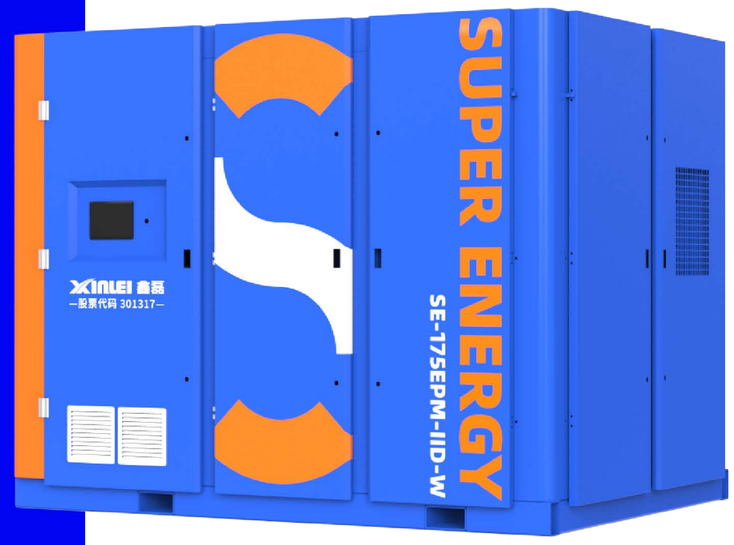
-IOT remote control, standard with air energy operation and mainte-nance platform

85dB
Low noise and vibration

30%
Energy saving

Smart remote control

Easy to install



WHOLE STRUCTURE

SUPER ENERGY

Water-cooled screw air compressor

Normal pressure two-stage series

High efficiency filtration system

-Efficient oil and gas separator so that exhaust oil content is less than 3ppm;
-High-efficiency oil filter, filter out impurities in lubricating oil, provide clean lubricating oil for the rotor and bearing of the head;
-High-efficiency horizontal air filter, filter the dust impurities in the inhaled air so that the rotor, bearing, etc.free from damage.





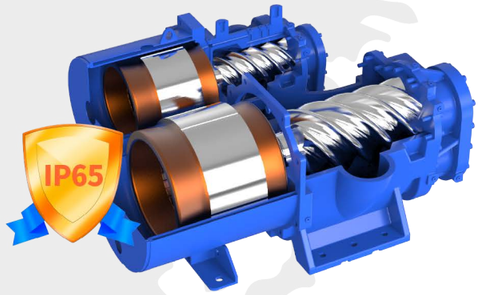
Dual Inverter System Constant Temperature & Constant Pressure

-The electrical control cabinet features independent hot and cold zones, providing higher heat dissipation efficiency for the inverter;
-Enlarged heat sink area with an anti-rust and anti-corrosion surface coating, easy to clean, longer service life, and improved heat dissipation performance;
-Lower oil temperature, preventing circuit adhesive curing, carbonization, and high-temperature issues;
-Stable unit operation with extended service life, avoiding shutdowns caused by high temperatures.



Two-Stage Oil-Cooled Compressor Main Unit

-The two-stage main unit achieves synchronous stepless speed regulation, featuring a large rotor and low rotational speed. The horizontal structure provides a low center of gravity, more stable operation, and lower noise;
-Integrated compressor head and motor design with zero transmission loss, achieving 100% transmission efficiency;
-IP65 oil-cooled motor with a high protection rating. No bearing mechanical losses and no cooling fan losses, resulting in low noise and low vibration. Efficiency is 3-10% higher than asynchronous motors of the same capacity, with a motor efficiency of 95.5% and energy savings of 4.1%.



Intelligent control system

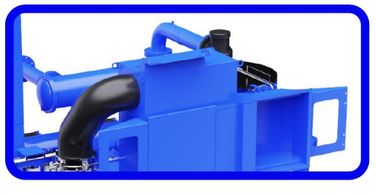
-On-site, mobile phone, computer at the same time intuitive display, users, service providers, manufacturers synchronous display: running state, running data, fault warning;
-Real-time on-line monitoring of pressure, power, temperature fluctuations;



water cooler

Water, as a cooling medium, has a high specific heat capacity and can quickly and effectively reduce the temperature of screw machines, ensuring efficient operation. It has a small volume, low noise, and stronger environmental adaptability





S-shaped design of intake pipe

The S-shaped pipeline can effectively reduce noise caused by factors such as airflow impact and vibration by changing the path and direction of the airflow

SUPER ENERGY

Truly Beyond Premium Energy Efficiency

-Two-stage compression reduces the compression ratio, lowers energy consumption, and intermediate cooling further saves energy, improving overall efficiency

Stable and Reliable

-The two-stage compression structure effectively reduces post-compression load, ensuring more stable operation and a longer service life

Variable Frequency Control

-Intelligent variable frequency technology adjusts operating conditions in real time, enhancing overall operating efficiency. A wide adjustment range meets the needs of different working conditions

Smart IOT

-IOT-based remote monitoring, equipped as standard with an air energy management platform

Liquid-Cooled Screw Air Compressor

- Power： 55-132kW
- Pressure：
  Normal pressure6-10bar

Low noise and vibration | Energy saving | Smart remote control | Easy to install



INDUSTRY CUSTOMI-ZATION

Grade 1 energy efficiency energy saving and environmental protection

-Better than national level 1 energy efficiency (GB/19153-2019 level 1 energy efficiency standard)
-More than 30% energy saving than ordinary air compressor

Horizontal two-stage compression

-Double coaxial integrated structure. 100% transmission efficiency
-Hierarchical compression, pressure ratio of 3, reduce reflux leakage, improve energy efficiency
-Isothermal compression, energy saving 15% under the same displacement
-Horizontal structure, horizontal layout, low center of gravity, small vibration, more stable operation

Air cooled high efficiency permanent magnet motor

-Maintain ideal temperature, low noise working environment, higher protection level
-Dual permanent magnet synchronous motor. Motor efficiency 95.5%, Energy saving 4.1%

Smart IOT

-IOT remote control, standard with air energy operation and maintenance platform

Air-cooled Screw Air Compressor

- Normal pressure series
  Power:22-315kW
- Low pressure series
  Power:37-250kW

Selected in the National Development and Reform Commission's "National Key Energy-saving and Low-carbon Technology Promotion Catalogue"



WHOLE STRUCTURE

SUPER ENERGY

Liquid-Cooled Screw Air Compressor

Constant Pressure Two-Stage Compression Series

Independent Motor Cooling System

-Provides a dedicated cooling channel for the motor, maintaining optimal operating temperature, preventing overheating, protecting insulation, and extending motor service life.

-Separately manages motor and compression heat, reducing primary cooling load, lowering operating temperature, and improving system stability.





Dual Inverter System Constant Temperature & Constant Pressure

-Increased radiator area, rust-proof and anti-corrosion coating on the surface, and easy-to-clean design, ensuring a long lifespan and excellent heat dissipation.

-This system maintains a constant temperature during operation, preventing issues like oil line blockage and carbon buildup due to high temperatures.

The air compressor runs smoothly and has a longer lifespan, while avoiding high-temperature shutdowns.



High-Efficiency Liquid-Cooled Permanent Magnet Motor

-Maintains an ideal operating temperature and low noise, suitable for harsh environments, with a higher protection rating;

-IP65 liquid-cooled motor with a high protection level, no bearing mechanical losses, no cooling fan losses, low noise and low vibration. Efficiency is 3%–8% higher than asynchronous motors of the same capacity.



Intelligent control system

-On-site, mobile phone, computer at the same time intuitive display, users, service providers, manufacturers synchronous display: running state, running data, fault warning;

-Real-time on-line monitoring of pressure, power, temperature fluctuations;



Two-Stage Compression Main Unit

-Compact structure ensures stable operation with reduced vibration and noise.

-Integrated motor–compressor design for high transmission efficiency.

-Two-stage compression lowers stage ratio, reduces energy use, and improves efficiency.

-Interstage cooling lowers second-stage intake temperature and power consumption.

WHOLE STRUCTURE

WHOLE STRUCTURE

Air-cooled screw air compressor

Normal pressure Two-stage compressor series

High efficiency filtration system

-Efficient oil and gas separator, so that exhaust oil content is less than 3ppm;
-High efficiency oil filter, filter out impurities in lubricating oil, for the head rotor, bearing to provide clean lubricating oil;
-High efficiency air filter, filter the dust and impurities in the inhaled air, so that the rotor head, bearing and other damage free;





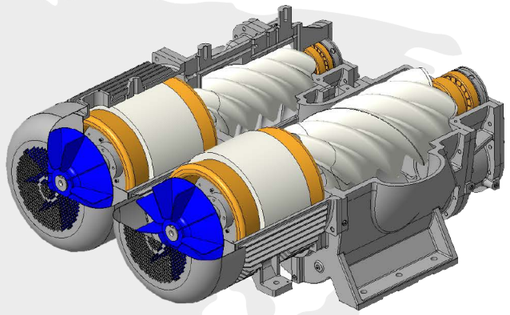
Dual Inverter System Constant Temperature & Constant Pressure

-Enlarging the area of the radiator, anti-rust and anti-corrosion coating on the surface, easy to clean, long life, good heat dissipation and constant temperature effect;
-The oil temperature is low, avoiding coking and carbon deposits in the oil circuit and high temperature phenomena;
-The unit runs stably and life increases, avoiding high-temperature shutdown;



Two-stage Compression Elements

-Horizontal structure, horizontal layout, low center of gravity, small vibration, more stable operation;
-Main engine, motor integrated structure,transmission efficiency is100%;
-Compared with the single compressor, the compression pressure ratio is smaller, the internal leakage is less, and the oil injection cooling between the stages tends to be isothermal compression;
-Synchronous step-less speed regulation to meet different demands, motor efficiency of 95.5%. Energy saving of 4.1%, high torque, smooth operation.



Intelligent control system

-On-site, mobile phone, computer at the same time intuitive display, users, service providers, manufacturers synchronous display: running state, running data, fault warning;
-Real-time on-line monitoring of pressure, power, temperature fluctuations;



Cooling system

-Constant temperature output: Generally, the constant temperature is set at about 85°C to ensure the best oil lubrication effect and avoid high temperature tripping;
-Constant voltage output: constant voltage control accuracy ± 0.005MPa, improve user yield and product quality;



WHOLE STRUCTURE

WHOLE STRUCTURE

Air-cooled screw air compressor

Low voltage single stage series

High efficiency filtration system

-Efficient oil and gas separator, so that exhaust oil content is less than 3ppm;
-High efficiency oil filter, filter out impurities in lubricating oil, for the head rotor, bearing to provide clean lubricating oil;
-High efficiency air filter, filter the dust and impurities in the inhaled air, so that the rotor head, bearing and other damage free;





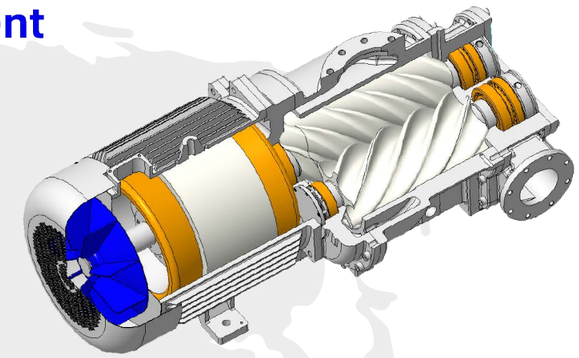
Independent oil supply design of oil pump

-High quality independent oil pump forced lubrication design;
-Independent oil pump is used for forced lubrication to ensure sufficient injection volume and better oil-gas mixing ratio under very low exhaust pressure (2kg);



High efficiency Element

-Synchronous stepless speed regulation to meet different requirements, motor efficiency 95.5%. Energy saving 4.1%, large torque, smooth operation;
-Large rotor, low speed, high efficiency, low noise, low vibration, low energy consumption;
-Main engine, motor integrated structure,transmission efficiency is100%;



Intelligent control system

-On-site, mobile phone, computer at the same time intuitive display, users, service providers, manufacturers synchronous display: running state, running data, fault warning;
-Real-time on-line monitoring of pressure, power, temperature fluctuations;



Customized large cooling system

-Equipped with plate-fin air-cooled heat exchangers or shell-and-tube water-cooled heat exchangers to meet the needs of customers under different operating conditions;
-Constant voltage output: constant voltage control accuracy
-Constant voltage output: constant voltage control accuracy

WHOLE STRUCTURE

WHOLE STRUCTURE

Water-Cooled Screw Air Compressor

Constant Pressure Two-Stage Compression Series

High-Efficiency Filtration System

-High-efficiency oil–air separator reduces oil content in discharged air to below 3 ppm;
-High-efficiency oil filter removes impurities from lubricating oil, providing clean lubrication for the airend and bearings;
-High-efficiency air filter removes dust and impurities from intake air, protecting the airend, bearings, and other components from damage;





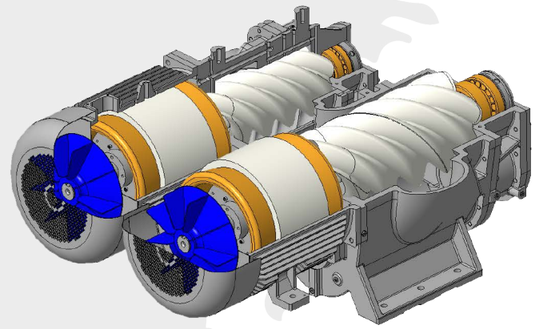
Dual Inverter System Constant Temperature & Constant Pressure

-Enlarged radiator area with anti-rust and anti-corrosion surface coating, easy to clean, long service life, and improved heat dissipation;
-Low oil temperature prevents circuit adhesive curing, carbonization, and high-temperature issues;
-Stable unit operation with extended service life, avoiding high-temperature shutdowns;



Two-Stage Air-Cooled Compression Main Unit

-Horizontal structure with low center of gravity, minimal vibration, and more stable operation;
-Integrated airend and motor design with 100% transmission efficiency;
-Air cooling after intermediate compression, built-in oil cooling, and interstage cooling, approaching isothermal compression;
-Synchronous stepless speed regulation to meet different demands, motor efficiency of 95.5%, energy savings of 4.1%, wide speed range, and smooth operation;



Intelligent control system

-On-site, mobile phone, computer at the same time intuitive display, users, service providers, manufacturers synchronous display: running state, running data, fault warning;
-Real-time on-line monitoring of pressure, power, temperature fluctuations;



water cooler

Water, as a cooling medium, has a high specific heat capacity and can quickly and effectively reduce the temperature of screw machines, ensuring efficient operation. It has a small volume, low noise, and stronger environmental adaptability





INDUSTRY CUSTOMI-ZATION

Grade 1 energy efficiency energy saving and environmental protection

-Better than national level 1 energy efficiency (GB/19153-2019 level 1 energy efficiency standard)
-More than 30% energy saving than ordinary air compressor

Horizontal two-stage compression

-Double coaxial integrated structure. 100% transmission efficiency
-Hierarchical compression, pressure ratio of 3, reduce reflux leakage, improve energy efficiency
-Isothermal compression, energy saving 15% under the same displacement
-Horizontal structure, horizontal layout, low center of gravity, small vibration, more stable operation

High-Efficiency Cooling

-Water-cooled system uses water as the cooling medium. Compared with air-cooled systems, it offers higher heat transfer efficiency;
-Water has a high specific heat capacity, delivering more effective heat dissipation, rapidly removing heat and maintaining system stability;

Smart IOT

-IOT remote control, standard with air energy operation and maintenance platform

Water-cooled screw air compressor

- **Power: 45-315kW**
- **Pressure: Normal pressure6-10bar**

Low noise and vibration | Energy saving | Smart remote control | Easy to install

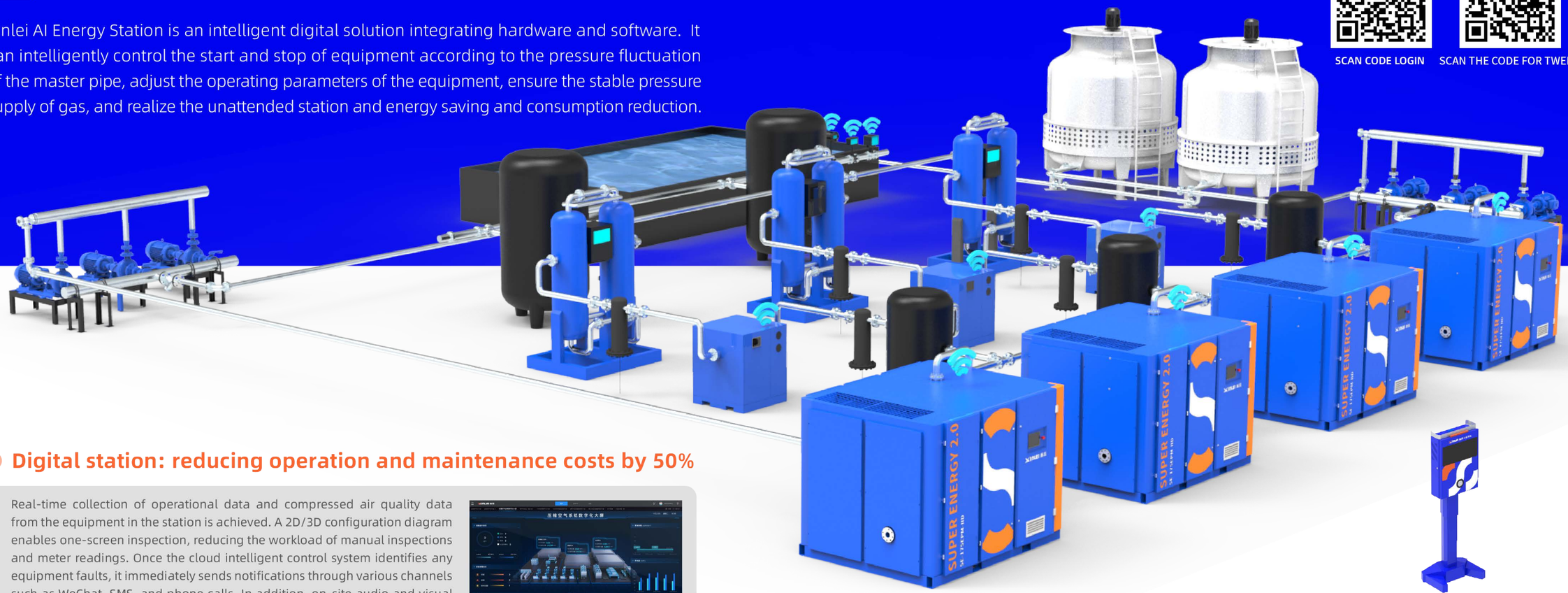


XINLEI AI ENERGY STATION

Xinlei AI Energy Station is an intelligent digital solution integrating hardware and software. It can intelligently control the start and stop of equipment according to the pressure fluctuation of the master pipe, adjust the operating parameters of the equipment, ensure the stable pressure supply of gas, and realize the unattended station and energy saving and consumption reduction.

SCAN CODE LOGIN

SCAN THE CODE FOR TWEETS

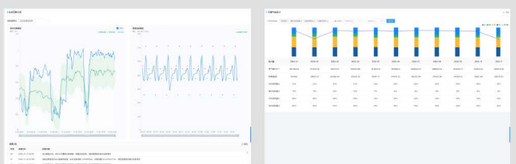


Digital station: reducing operation and maintenance costs by 50%

Real-time collection of operational data and compressed air quality data from the equipment in the station is achieved. A 2D/3D configuration diagram enables one-screen inspection, reducing the workload of manual inspections and meter readings. Once the cloud intelligent control system identifies any equipment faults, it immediately sends notifications through various channels such as WeChat, SMS, and phone calls. In addition, on-site audio and visual alarms ensure that engineers are promptly notified of the faults, allowing them to respond quickly and resolve issues to ensure a stable gas supply. The cloud intelligent control system accurately calculates equipment maintenance time based on data, enabling maintenance as needed and extending the equipment's lifespan.

Intelligent control, the station energy saving 5-30%

Cloud intelligent control recognizes and predicts the usage pattern of the gas consumption end, while continuously calculating the pressure loss on the gas transmission end in real-time. It accurately controls the operation of equipment with corresponding displacement, adjusts equipment parameters, optimizes equipment operation combinations, and supplies only the amount of gas needed.By narrowing the pressure band and increasing equipment loading rates, it achieves energy savings and reduces consumption, resulting in overall station energy savings of 5-30%.



Ensure the value of safe production

Daily fault warnings: Dynamic alerts for key indicators such as exhaust pressure, temperature, current, voltage, and ambient temperature to proactively address potential issues.
Real-time alarms for critical faults: Immediate telephone alerts in case of major failures to minimize losses.
Control of key parameters: Maintaining optimal process conditions by controlling pressure and temperature.
Standby scheduling: When a device fails, the standby device starts intelligently to balance equipment life.

Improve equipment operation and maintenance efficiency and energy-saving value

Safety: Intelligent control ensures equipment operates within safe parameters, with timely alarms and backup activation in case of anomalies.
Energy saving: Under normal supply of pressure, flow, temperature and humidity, the difference between the supply and demand matching model is adopted to minimize energy consumption.
Efficiency: Intelligent control and online inspections increase personnel efficiency, reducing manual inspection and meter reading tasks.
Quality enhancement: Through intelligent control, achieving stable pressure supply, ensuring stable production gas supply, and improving product quality.

LIFECYCLE ENERGY EFFICIENCY

In a compressed air system, most equipment is driven by electricity, with the air compressor consuming more than 90% of the total electrical energy.



91%
ELECTRICITY EXPENSE COST

0.4%
INSTALLATION FOUNDATION COST

5.6%
DYNAMIC MAINTENANCE COST

3%
STATIC ACQUISITION COST

Ten-year lifecycle expenses

Fee components	First year	Second year	Third year	·····	Ten-year total
Static acquisition cost	380000	0	0	·····	380000
Installation foundation cost	50000	0	0	·····	50000
Dynamic maintenance cost	45000	45000	60000	·····	800000
Electricity expense cost	780000	780000	780000	·····	7800000
Saving of 30% accounting		2340000			

Note: The above is the 250kw air compressor model; The annual running time is 8000/ h; The average price of electricity is 0.39 yuan/h.





GAS SALES MODE

Xinlei provides compressed air sales services specifically for newly established air compressor station users. Xinlei's project team offers users a comprehensive compressed air solution based on their gas usage requirements and industry experience. The equipment inside the air compressor station is provided by Xinlei free of charge, and Xinlei is responsible for the maintenance after the operation. Monthly settlements are made based on the agreed gas unit price. The gas sales project is different from the air compressor contract energy management project. To achieve continuous energy savings, it is important to ensure dynamic matching between the air compressor's air production and gas consumption and ongoing technical upgrades of the compressor station equipment. And the property rights of the equipment are not transferred after the end of the gas sale contract.

In the project cooperation of air compressors, Xinlei is obliged to ensure the continuous energy saving of compressed air.

Gas fee = monthly gas consumption * agreed gas price

SOLVE THE PAIN POINTS OF ENTERPRISES

ONE 01
Mitigating the risk of unstable production gas supply and the potential oversupply of purchased machines.

TWO 02
Avoiding the risk of increasing energy consumption year by year for self-purchased machines.

THREE 03
Eliminating the costs of equipment maintenance and repairs for the users.

FOUR 04
Saving on manual management costs.

FIVE 05
Eliminating the capital cost of equipment acquisition for users.

SIX 06
Helping users save on gas, electricity, and providing peace of mind.

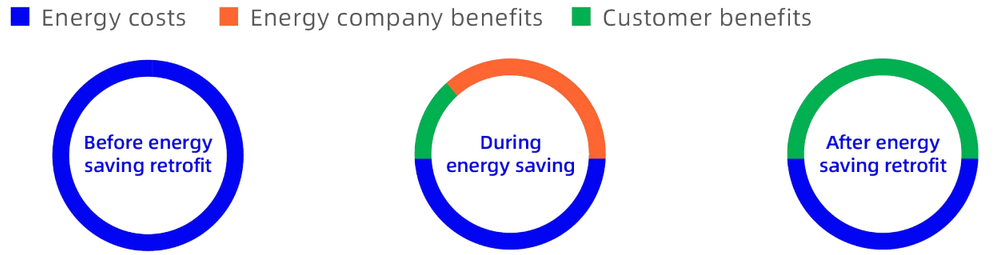
Contract energy management is an

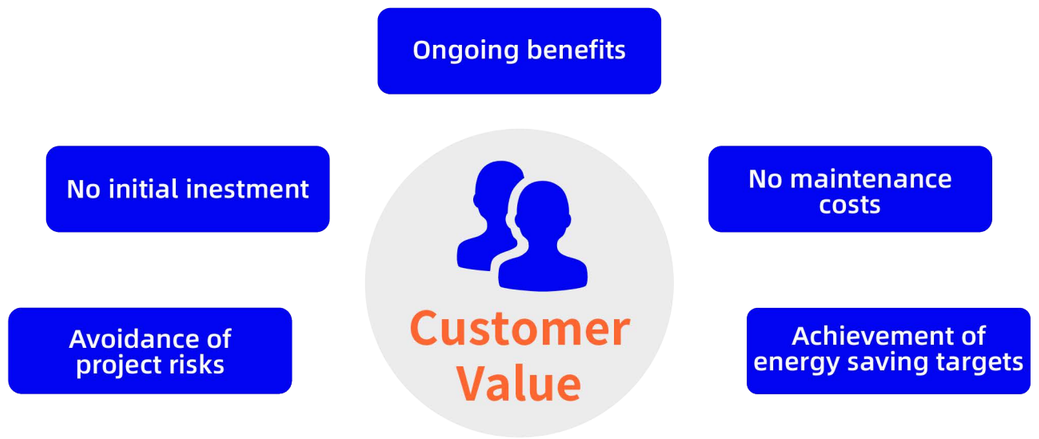
Energy saving

Investment that pays for the full cost of a project through energy savings.

CONTRACT ENERGY MANAGEMENT MODE

Contract energy management mode is an energy-saving service company signing an energy-saving service contract with customers.Provide customers with a whole set of energy-saving services, including project design, project financing equipment procurement, engineering construction.equipment installation and commissioning, personnel training, energy-saving confirmation and guarantee, andrecover investment and profit from the energy-saving benefits obtained by customers after energy saving transfommation, a business operation mode.





MODE OF COOPERATION



SHARING MODEL

Energy Efficiency Sharing

The energy-saving company provides funding and complete process services to implement the energy-saving project with the client's cooperation. During the contract period, the energy-saving benefits are shared with the client in the agreed proportion, at the end of the contract period, the energy-saving benefits and ownership of the energy-saving project revert to the client.

Guaranteed Energy Savings

The client provides funding for the energy-saving project in instalments and cooperates with the project implementation. The energy-saving company commits to the energy savings of the energy-saving project and the cost of testing, inspection, operation and maintenance services provided. If the project does not achieve the promised energy savings, the energy-saving company will bear the corresponding responsibility and economic loss according to the contract.

Energy Hosting

The client commissions the energy efficiency company to carry out the energy renovation and operation, and management of the energy system and pays the energy hosting costs as agreed in the contract; the energy efficiency company reduces the energy costs by improving energy efficiency (less the additional management costs) and owns all or part of the energy savings as agreed in the contract.

CONTRACT ENERGY MANAGEMENT

IMPLEMENTATION PROCESS



IMPLEMENTATION APPROACH

Energy consumption per unit before retrofitting :

Independent electricity meters and flow meters are installed in the existing plant room to measure the total air consumption and electricity consumption in 24 hours. Dividing the measured electricity consumption by the total air consumption, the electricity consumption per cubic metre of air of the user's existing equipment can be calculated (unit energy consumption A: kwh/m^3).

Energy consumption per unit after retrofitting :

The same method can be used to calculate the number of kWh per cubic metre of air used by Xinlei's energy-saving air compressors (unit energy consumption B: kwh/m^3).

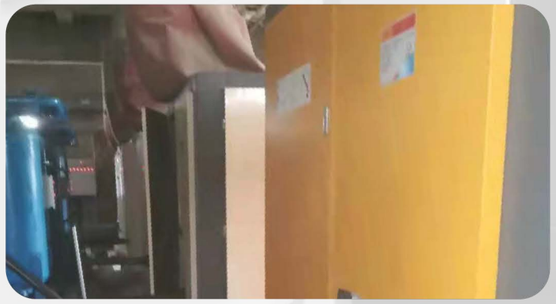
Energy saving calculation after retrofit:

Electricity saved in the month = (A-B)*Q,electricity cost saved in the month: (A-B)*Q*unit price of electricity where Q: the amount of air used in the month m^3.

The benefits are then distributed as agreed in the contract.

CEMENT INDUSTRY
SUBVERT THE CONCEPT OF GAS USE

Tangshan, Hebei





Project requirements

A cement industry in Tangshan, Hebei province, storage ventilation, raw material mixing, cleaning equipment, clinker cooling, cement conveying and pneumatic control of the whole field of gas need power source, **in the daily output of 4000 tons of pressure**, the original 7pcs screw machine due to decreasing efficiency, gas consumption plummets, has been unable to meet the existing demand for gas

Annual saving is nearly RMB475,200 | electricity saving rate is nearly 30%

Solution

The technical team flexibly customized **6pcs** Xinlei two-stage compression air compressors. Advanced V-line design, horizontal mechanism, double frequency control and other core technologies, to achieve efficient operation, source supply strong air energy.

Solution advantage

1. Unique internal structure, to meet the air pressure between 2-10bar, **flow up to 54m³/min**.
2. The real energy saving rate is nearly 30%, and the **annual electricity cost is RMB475,200**.
3. Dual coaxial integrated design, **transmission efficiency of 100%**.
4. Internal unique structure, motor life **maintenance free**, bearing and other internal parts **long life**.
5. Horizontal structure design, low center of gravity, more stable operation, **low noise below 80dB**.
6. Standard IOT, **remote control**, worry-free use.

FACTORY
GAS SUPPLY

FIBER INDUSTRY
DIGITAL INTELLIGENT SOLUTION

Qianjiang, Chongqing





Project requirements

In the case of a glass fiber in Chongqing, a large amount of gas is needed for blowing bottles, glassware and gas transmission. Due to the long service life, efficiency and gas volume decline, the original nine air compressors cannot match the existing demand for gas, and solutions are urgently needed

Annual saving is nearly RMB912,600 | electricity saving rate is nearly 41.33%

Solution

According to customer requirements, the technical team made a flexible customized scheme: 6pcs Xinlei two-stage compression air compressors replaced the original 9pcs competitive air compressors. After technical modification, the equipment runs efficiently and stably. Meanwhile, it is equipped with cloud platform and remote monitoring to improve efficiency and reduce cost.

Solution advantage

1. The real energy saving rate reached 41.33%, **Only a single device can save RMB152,100 of electricity**.
2. Standard cloud platform remote monitoring, mobile phone, computer multi-dimensional view, **improve efficiency and reduce cost**.
3. Horizontal structure, horizontal layout, low center of gravity, more stable operation.
4. Horizontal two-stage design, suitable for **2-10bar multi-pressure** section.
5. Equipped with efficient oil and gas core, **oil content as low as 1-3ppm**.
6. Integrated design, stable operation, **noise below 80dB**.

GAS
TRANSPORT

MINING INDUSTRY ENERGY-SAVING BREAKTHROUGH SOLUTION

Luoyang, Henan





Project requirements

A mining industry in Henan province needs a large amount of gas on the flotation column, plus a large daily processing capacity. The original machine continues to swallow electric energy, and the daily electricity bill surges sharply. Its energy consumption has far exceeded the original bearing capacity of the enterprise, and it is in urgent need of an energy-saving air compressor transformation scheme

Annual saving is nearly RMB302,400 | electricity saving rate is nearly 30.58%

Solution

According to customer needs, the technical team tracked the whole process and customized Xinlei two-stage compression air compressor to replace the famous foreign brand Fusheng. With the support of core technologies such as coaxial integrated design and efficient permanent magnet synchronous motor, the energy saving exceeds the national level of energy efficiency, successfully solving the problem of high energy consumption.

Solution advantage

1.The real energy saving rate reached 30.58%, and the **annual electricity cost was RMB302,400**.
2.**Wide range of air volume**, different models of exhaust 4.2m³-52.2m³/min, select thick and fine materials without pressure.
3.Horizontal structure design, low center of gravity, more stable operation, low noise below 80dB.
4.Dual coaxial integrated design, transmission efficiency of 100%, the first and second host to achieve step-less speed regulation, precise speed regulation, efficiency stable high value.
5.Adopt French oil seal, triple protection, refuse the risk of oil leakage.
6.Standard IOT, remote control, improve efficiency and save time.

GAS FOR FLOTATION

MINING INDUSTRY AIR-BASED SOLUTION

Guiyang, Guizhou





Project requirements

A mining company in Henan province needs a lot of gas for their flotation columns. With the high demand for daily treatment, the “electric tiger” endlessly devoured energy consumption.The daily electricity fee is spiking. And the energy consumption has far exceeded the original capacity of the company. An energy-saving air compressor renovation solution is urgently needed.

Solution

According to customer needs, technical team follow the whole process to the ground.XINLEI two-stage compressor was customized to replace the famous foreign brands.
With the core technologies such as coaxial integrated design and high-efficiency permanent magnet synchronous motor(PMSM). National level 1 energy-saving efficiency , successfully solving the problem of high energy consumption.

Solution advantage

1.**Energy saving ceiling**,The real energy saving rate is 30.58%, and **a single device can save RMB 302,400 yuan of electricity annually.**
2.**Mineral processing elite**,**Wide range of air volume**, different models of exhaust 4.2m³-52.2m³/min, select thick and fine materials without pressure.
3.**Stable and low noise**,Horizontal structure design、low centre of gravity for more stable operation, noise down to 80dB.
4.**High point of efficiency**,Dual coaxial integrated design, transmission efficiency is 100%. The primary and secondary host achieve stepless speed regulation. The efficiency remains at a high level with precise speed regulation.
5.**Delivering clean air from the source**,using French seals with triple protection to eliminate the risk of oil leakage.
6.**Digital intelligence expert**,standard IOT, remote control, high efficiency and labor saving.

MINING GAS

ELECTRICAL MACHINERY AND EQUIPMENT MANUFACTURING INDUSTRY
HIGH COST-EFFECTIVENESS

Taizhou, Zhejiang





Project requirements

With the emergence of the high-end pattern of new energy industry, a new energy enterprise in Zhejiang Province is expanding its industrial rectangle, and the manufacturing, driving, lifting and lifting of electrical equipment all need strong power sources. Now it is facing the problem of gas shortage, and it is in urgent need of efficient and cost-effective air energy solutions

Solution

According to customer demand, the technical team provides a flexible solution, **three new 160kW** Xinlei two-stage compression air compressors, in V-line, two-stage compression host, heavy duty SKF tapered roller bearings and other multi-black technology support, real supernational level energy efficiency, efficient and stable operation.

Solution advantage

1.**Energy saving by 30%**, only by saving electricity money less than 1 year can quickly return the cost.
2.Motor life maintenance free, bearing and other internal parts long life, **reduce parts replacement cost**.
3.Internal triple oil seal, refuse the risk of oil leakage; Super cooling system, avoid high temperature shut-down.
4.Horizontal two-stage compression design, no bearing motor, **transmission efficiency of 100%**.
5.Integrated design, stable operation, **noise below 80dB**.
6.Standard equipped with IOT, remote control, equipment data, maintenance reminders and other intimate reminders.

FACTORY GAS SUPPLY

STEEL INDUSTRY
LOW-CARBON LEADER

Wenxi Economic and Technological Development Zone, Shanxi





Project requirements

Iron and steel as the "two high" industry, energy consumption is high, this enterprise actively responds to the national "double carbon" policy, for the industry to reduce emissions and improve the contribution, in urgent need of low-carbon energy-saving air energy program

Solution

Technical team on-site survey, landing flexible scheme: Add **3 250kW** Xinlei two-stage compression air compressors. Two-stage compression permanent magnet frequency conversion, advanced V-shaped line and other technology support the overall energy saving rate of 30%, to achieve both emission reduction and efficiency.

Solution advantage

1.**Energy saving 30%**, reduce carbon dioxide emissions.
2.Super cooling system, maintain high efficiency under high temperature in summer, **avoid high temperature shutdown**.
3.Double coaxial integrated design, integrated direct connection, **transmission efficiency 100%**.
4.Motor life maintenance free, bearing and other internal parts long life, r**educe the cost of ineffective replacement**.
5.Integrated design, stable operation, **noise below 80dB**.
6.Standard IOT, data visualization, **remote and local joint control**.

FACTORY GAS SUPPLY

TECHNOLOGY PROMOTION AND APPLICATION SERVICE INDUSTRY

INNOVATION DRIVES UPGRADING

Zhejiang, Taizhou





Project Requirements

Due to the inability of existing equipment to meet the increasing demand, Gansu A Technology Co., Ltd. is facing the challenge of insufficient gas supply. There is an urgent need for an efficient and stable air energy solution to ensure a stable and reliable gas source supply for its research, development, and application services.

Solution

To meet the company's needs, the Xinlei technical team has provided a tailored solution: adding 9 Xinlei two-stage air compressors with a capacity of 200 kW each. These compressors feature an advanced V-line design and a two-stage compression unit, combined with an efficient internal structure. They comply with the National Grade 1 Energy Efficiency Standard, providing the company with an efficient and stable air supply.

Solution Advantages

1. **Outstanding Energy Efficiency**, Reduces power consumption and lowers energy costs.
2. **Powerful Air Supply**, Nine 200 kW air compressors work together to provide a stable air source for various technology applications.
3. **High Efficiency and Stability**, Advanced two-stage compression design and high-quality construction ensure stable equipment operation and reduce failure rates.
4. **Intelligent Management**, Standard IoT technology enables remote monitoring and control, with real-time data and maintenance alerts to improve efficiency.
5. **Low Noise**, Integrated design reduces noise to as low as 80 dB, improving the work environment and employee comfort.
6. **High Durability**, High-quality components and design extend equipment service life and reduce maintenance requirements.

FACTORY GAS SUPPLY

MINING INDUSTRY

STEADY MINING, EFFICIENT SOLUTION

Shanxi Wenxi Economic Development Zone





Project Requirements

A mining company in Shanxi Liulin faced challenges in meeting the air source demands during mining operations. The original equipment could not keep up with the high-intensity mining needs, creating an urgent requirement for an efficient and stable air energy solution to ensure continuous mining operations.

Solution

To meet the needs of the mining enterprise, Xinlei air compressor technicians conducted on-site system assessments and developed an energy-saving retrofit plan. Four 250 kW Xinlei two-stage screw air compressors were added. These energy-efficient units operate at 2–10 bar with airflow up to 70 m^3/min. Featuring advanced V-line design, horizontal structure, and dual-frequency control, they deliver stable, efficient performance and reliable compressed air for high-intensity mining operations.

Solution Advantages

1. **Energy Efficiency**,Improves efficiency, lowers energy costs, and supports efficient mining operations.
2. **Powerful Performance**,Four 250 kW air compressors provide sufficient air for stable mining operations.
3. **Operational Efficiency**,Horizontal two-stage compression with a bearing-free motor delivers 100% transmission efficiency.
4. **Cost Optimization**,Maintenance-free motor and long-life components reduce replacement costs.
5. **Low Noise Design**,Noise as low as 80 dB, improving the work environment and employee comfort.
6. **Durability and Reliability**,High-quality components and design extend service life and reduce maintenance costs.

FACTORY GAS SUPPLY

APPLICATIONS APPLICATION AREA


mining


petrochemical


cement building materials


advanced coating


machinery


glass


thermoelectricity

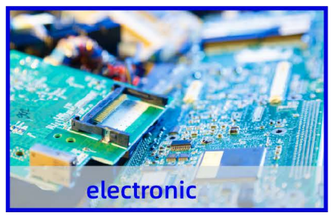

metallurgy


food


cast


incineration


Hardware decoration


electronic


pharmaceutical


textile


Auto protection


Automobile manufacturing


Injection molding

Pneumatic tools, control valves, general instruments, precision sandblasting

Precision industry, precision instrumentation, textile, chemical fiber process, general painting

Electronic industry, chip manufacturing, advanced coating, film industry, petrochemical industry

Hospital, respiratory, transport, pharmaceutical, mixing, aseptic packaging, food industry

Food industry, pharmaceutical industry, clean room test instruments

Chemical analysis, laboratory, breathing, ultra-drying, brewing industry, high-voltage electrical insulation, powder storage, optical lenses, electrostatic coating