

XINLEI
COMPRESSOR
CO.,LTD.

SCREW AIR COMPRESSOR



- Grade 1 energy efficiency
- Measured and marked
- Quiet and low noise
- Intelligent Internet of Things

XINLEI COMPRESSOR CO.,LTD.

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Please contact the sales person for more product information and service materials, Xinlei reserves the



WhatsApp



Facebook



LinkedIn

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 world-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.**

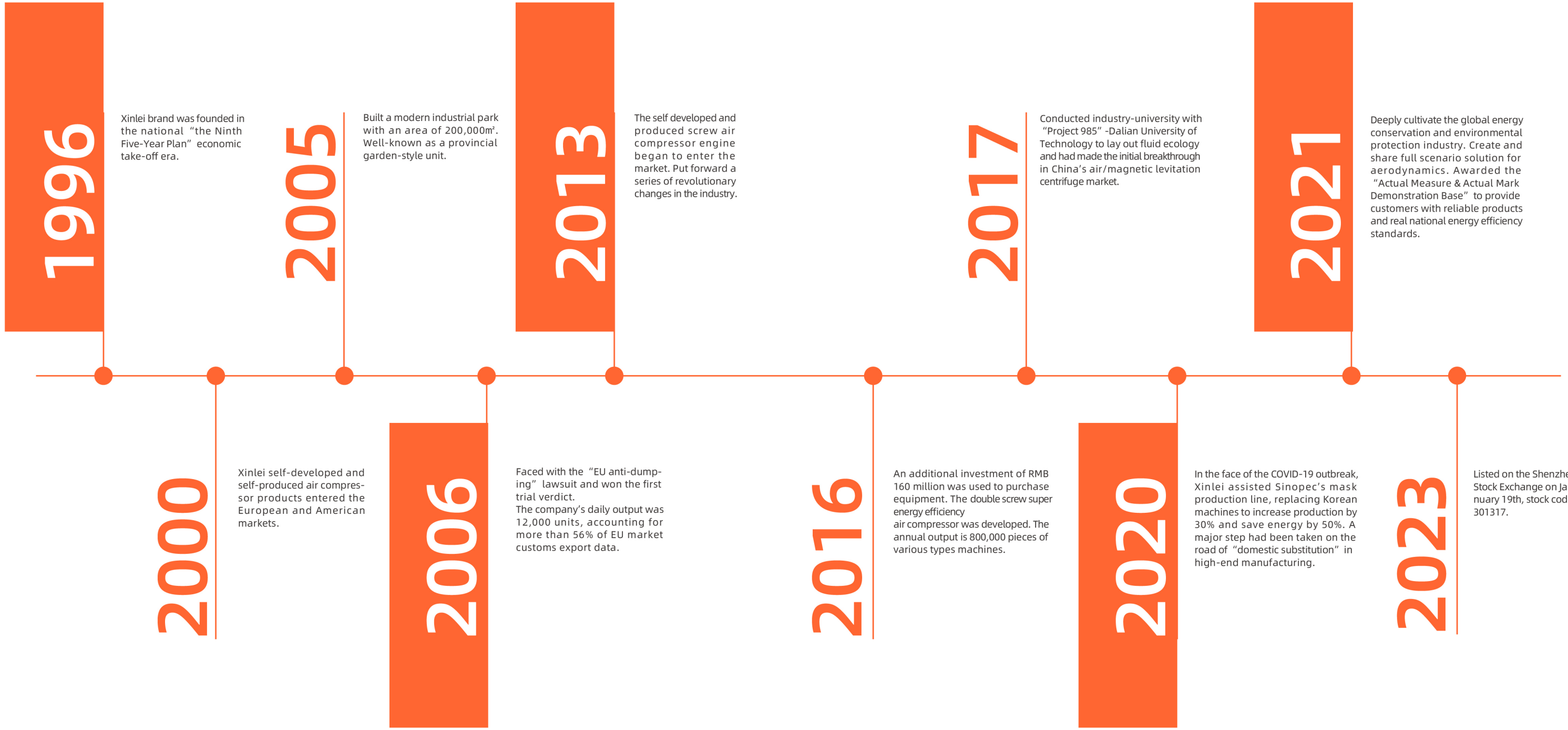
- 149,270+m² floor area
- 800,000+ units yearly production
- 100+ sales area
- 400+ patents
- 300+ product specifications
- 260+ high quality precision equipment

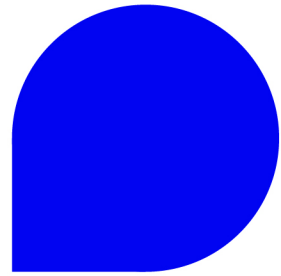
COMPANY HONOURS

Draft 6 national standards & 4 industrial 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
- 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

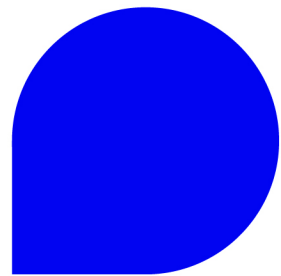
COMPANY EVENTS AND DEVELOPMENT





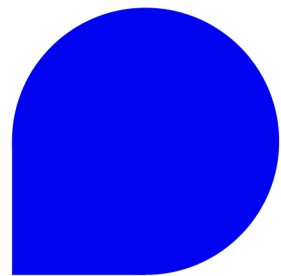
Zhong Renzhi
Chairman

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



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



○ MAZAK high precision machining center



○ KAPP rotor grinder machining center



ZEISS three-coordinate ○ testing center

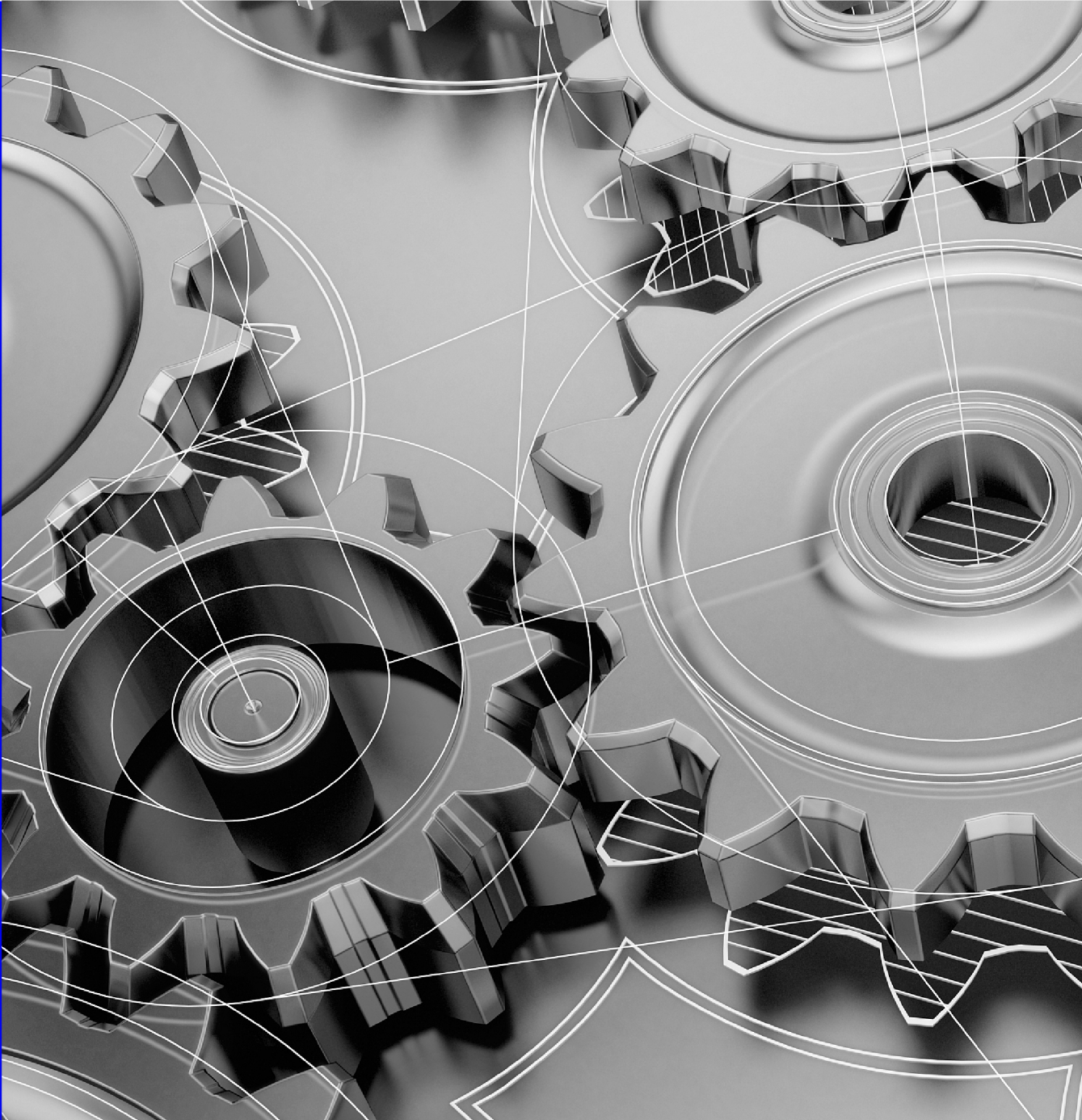


○ Fine machining center



XINLEI AIR ENERGY
ALL PERIODS 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

Xinlei air

Full scene digitization

Digital energy management
for your plant

REMOTE MONITORING SYSTEM

Full-scene+Intelligent+One-stop

Functional Framework I



Data Visualization

- Visualization of equipment operating status
- View real-time working status



Digital Operation&Maintenance

- Equipment Asset Management
- Cloud platform warning control
- Inspection, maintenance



Real-time data acquisition

- Automated Meter Reading
- Air consumption statistics



Intelligent Optimization

- Cost optimization
- Quality optimization



Data Reports

- Customized Data
- Customized icons



Remote intelligent control

- Remote management of air compressor stations
- Intelligent regulation of equipment

IOT TECHNOLOGY

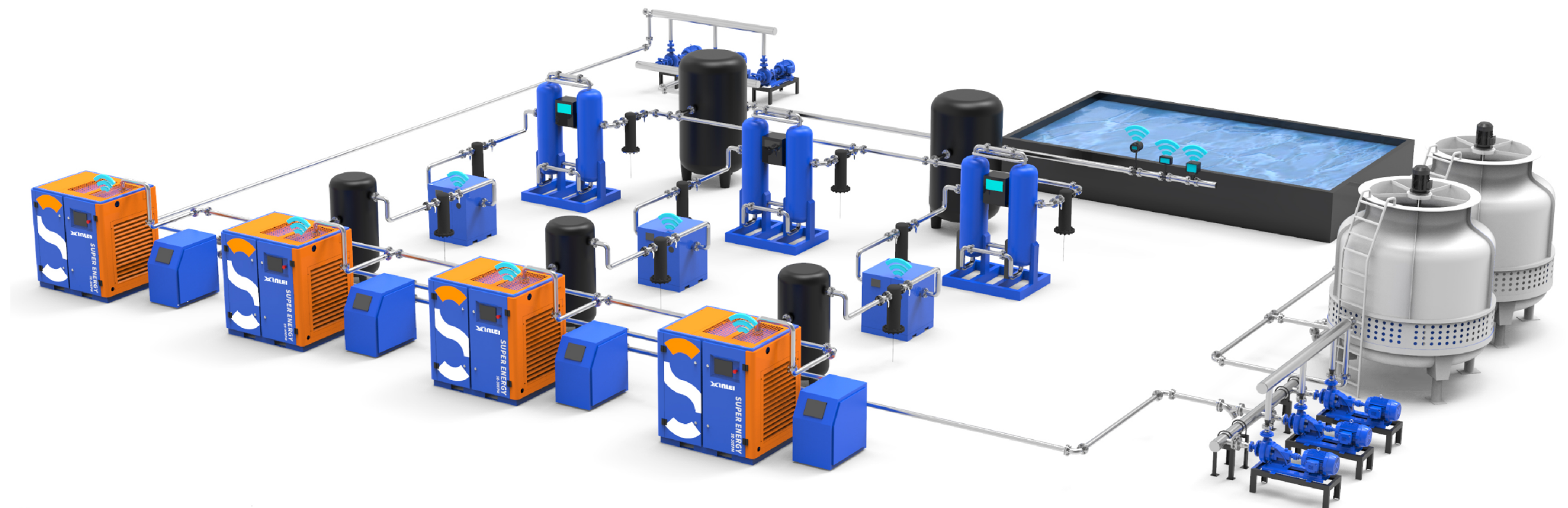
IOT Technology is an intelligent management software based on industrial internet technology, specifically for air compressors and ancillary equipment, providing intelligent digital sales as well as operation and maintenance capabilities for equipment manufacturers, agents and users in this industry chain.

PRODUCT FUNCTION

Equipment digital intelligence; through IIOT technology, real-time monitoring of equipment data and active fault alerting, helping manufacturers to upgrade from producing "dumb" equipment to intelligent equipment;
Sales Intelligence; efficient management of business opportunities, contracts, orders and other sales operations through first-to-speak tools;
Service digital intelligence, based on IOT technology, can achieve a closed-loop service of remote inspection, diagnosis, repair, and equipment upgrade.

CORE EQUIPMENT

Air compressors
WIFI base station
Cloud server
Various smart meters
Human-computer interaction screen
Gateway module



DIGITAL INTELLIGENCE SCIENTIFIC ENERGY SAVING MANAGEMENT SCHEME

Safe production, scientific energy saving, consumption reduction and efficiency increase, lean management



- Visualize equipment running status and view real-time working status
- Real-time energy consumption monitoring and data collection
- Statistical analysis of gas data to help enterprises make business decisions
- Equipment remote management, intelligent joint control
- Use gas on demand to avoid wasting energy
- Daily record of equipment operation, maintenance and daily management are more convenient
- Stable air pressure, scientific energy saving of the whole

INTERNET OF THINGS

The core components are 85% patented High precision integrated coordination



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.

Coaxial all-in-one design

The host and motor share a shaft design, without intermediate transition parts, such as a centre bracket, coupling, pulley, gear, etc. Transmission loss is reduced to zero, **and transmission efficiency is 100%**



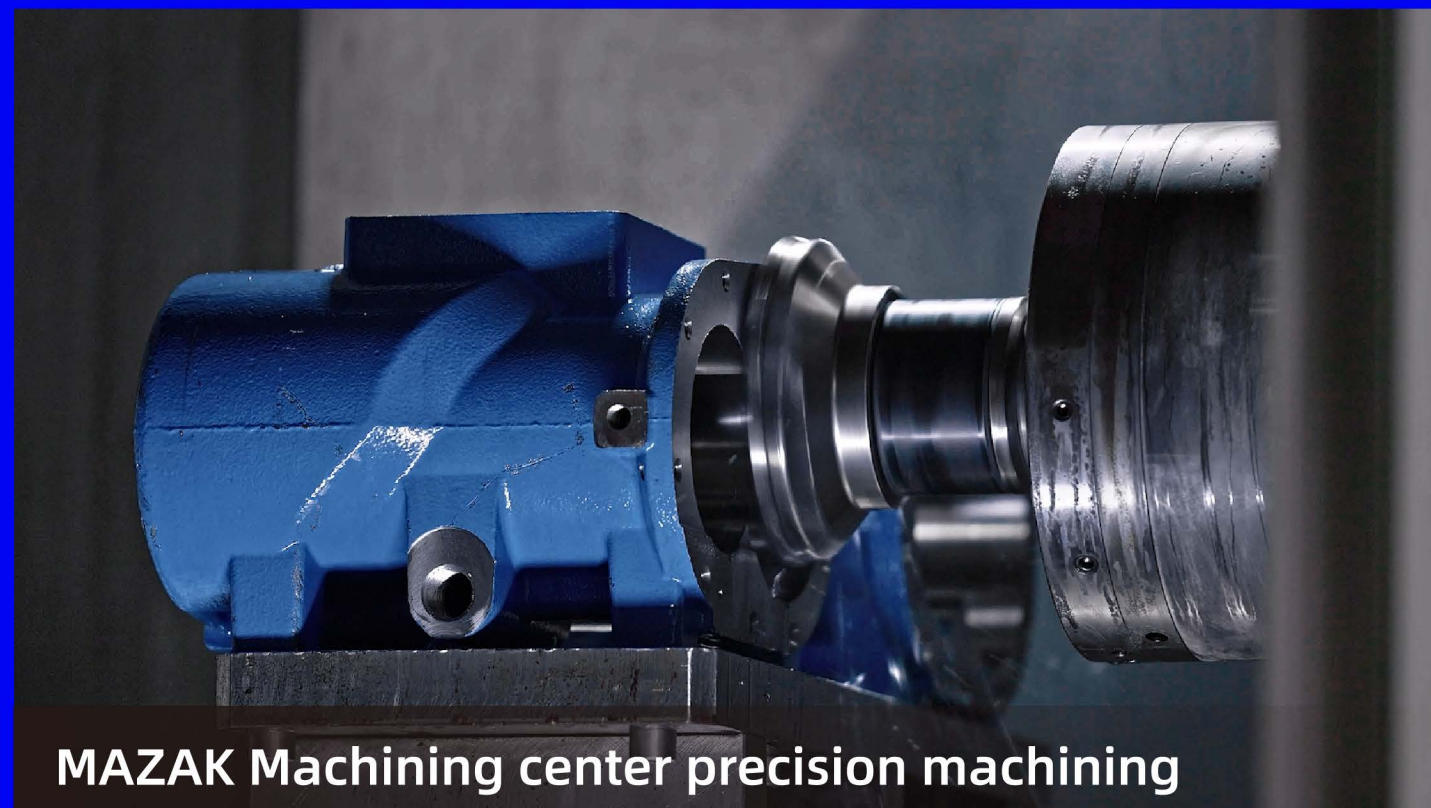
High-efficiency screw host

The host adopts a new generation of the asymmetrical profile, 5:6 spiral rotor, from line seal to seal technology upgrade, improving gas production efficiency and large rotor diameter. Low speed ensures that the host noise is small and long life.



High-efficiency permanent magnet synchronous motor

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-IP55 protection grade ensure safe and reliable equipment operation. The motor has a **3-10% higher efficiency** compared to asynchronous motor of the same capacity. High motor efficiency is maintained especially at low speeds.



MAZAK Machining center precision machining

WHOLE STRUCTURE

WHOLE STRUCTURE

SUPER ENERGY Single-stage screw air compressor

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.

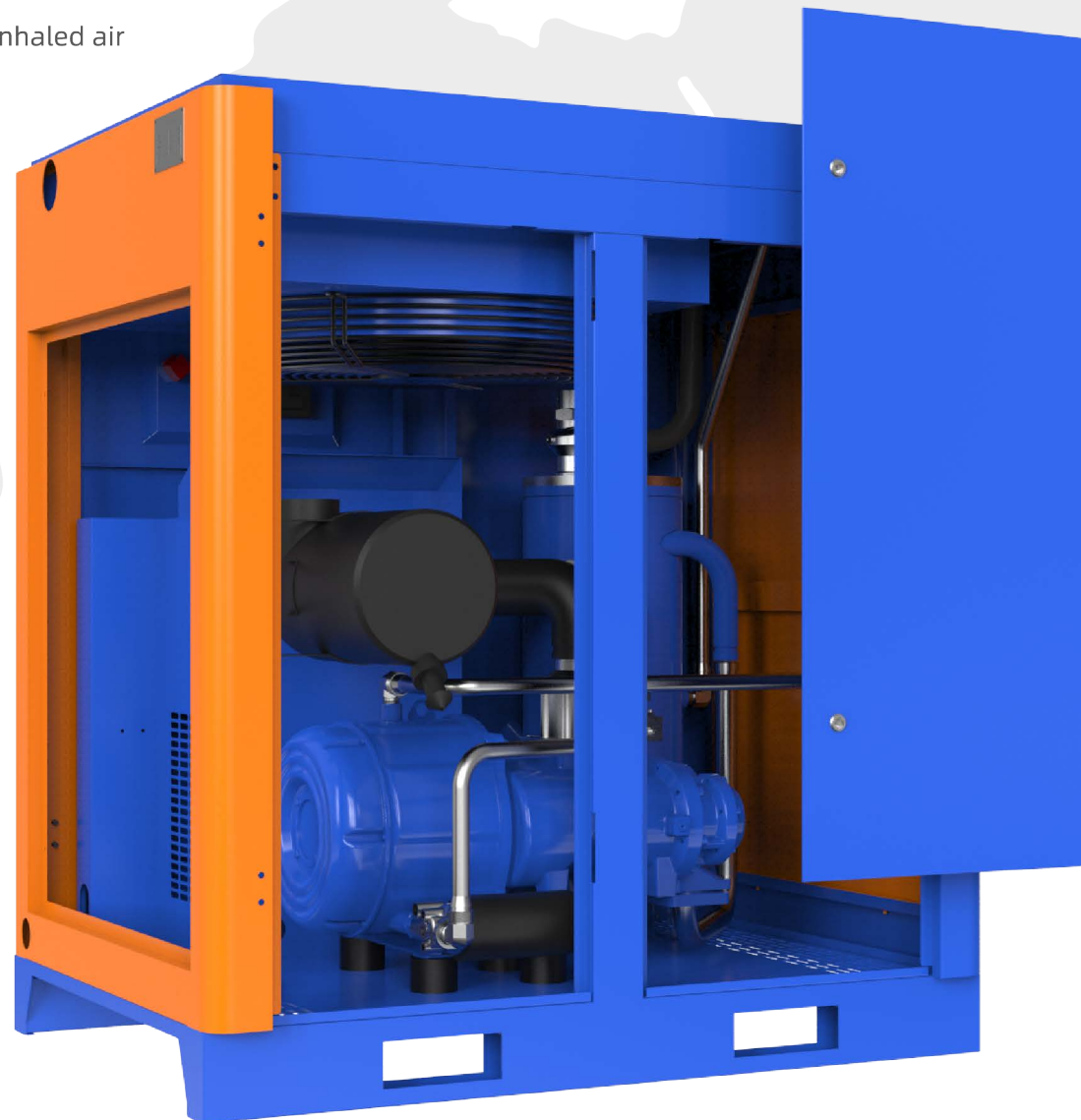


INOVANCE inverter

- High product integration with built-in 220 VAC AC power supply and power frequency contactor, integrated PT100 and other PTC detection circuits and protection circuits;
- It can realize one-click startup and use special aircraft software to communicate with H, the Internet of Things and other devices No debugging is required;

High-efficiency oil-cooled permanent magnet motor

- IP65 oil-cooled motor, high protection grade, no bearing mechanical loss, no cooling fan loss, low noise and low vibration.The efficiency is 3%-10% higher than the same capacity asynchronous motor.
- The host and motor share a shaft design, without intermediate transition parts, such as a centre bracket, coupling, pulley, gear, etc.
- Transmission loss is reduced to zero, and transmission efficiency is 100%



Standard IOT technology

- Digital intelligence of equipment: through IOT technology,real-time monitoring of equipment data, fault active reminder, help manufacturers from the production of "dumb" equipment to smart equipment upgrade;
- Digital intelligence of service: Based on IOT technology, remote inspection and equipment diagnosis can be realised to repair and upgrade the service closed loop.



High-performance cooling system

- High heat dissipation efficiency, ensuring high temperature and humidity 24-hour continuous operation in the environment.



SUPER ENERGY

Real better than Grade 1 energy efficiency

-National energy efficiency laboratory, the actual measurement and actual labeling

Coaxial integrated direct connection technology

-No intermediate transition such as center bracket, coupling, pulley, gear and other linkage components. Transmission zero loss. Transmission efficiency 100%

Smart IOT

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

Oil-cooled high-efficiency permanent magnet motor

-Maintain ideal temperature, low noise working environment, higher protection level
-The efficiency is 3%-10% higher than the same capacity asynchronous motor

Single Stage Screw Air Compressor

- **Power:7.5-132kW**
- **Pressure:7/8/10bar**

Energy-saving effect exceeds GB/19153-2019 first-class energy efficiency standard



SUPER ENERGY

Combined all-in-one design

-Integrated air compressor, air dryer, air tank, high efficiency filter. No need install piping. Plug and use.Reduce pressure loss in dry air output

Clean air (optional)

-Adopting high-efficiency Freeze dryers and 4-stage high-efficiency precision filters(15 bar) to ensure pure compressed air is obtained

Smart IOT

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

Oil-cooled high-efficiency permanent magnet motor

-Maintain ideal temperature, low noise working environment, higher protection level
-The efficiency is 3%-10% higher than the same capacity asynchronous motor

Special Matching Use Air Compressor Unit

- **Power:7.5-22kW**
- **Pressure:7/8/10/15bar**

Energy-saving effect exceeds GB/19153-2019 first-class energy efficiency standard



SUPER ENERGY

Mobile whole machine integration

- Gas can be used directly without tank
- Compact structure, small size, save space and installation cost
- Easy to move, suitable for different situations and can be easily integrated near the workplace

Coaxial integrated direct connection technology

- No intermediate transition such as center bracket, coupling, pulley, gear and other linkage components, transmission zero loss, transmission efficiency 100%

Smart IOT

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

Oil-cooled high-efficiency permanent magnet motor

- Maintain ideal temperature, low noise working environment, and higher level of protection
- 5%-8% higher efficiency than an asynchronous motor with the same capacity. Synchronous motor, stepless speed regulation

Single-Phase 220V Screw Air Compressor

- **Power:2.2-5.5kW**
- **Pressure:7/8/10bar**

Electricity limitation without
stopping production
Replace piston compressor



JF SERIES

Single Stage Screw Compressor

Noise reduction design

- all-in-one structure + Vibration damping design + flexible exhaust pipeline, good balance of rotor movement, small vibration, low noise

Integrated direct connection technology

- No intermediate transition such as center bracket, coupling, pulley, gear and other linkage components. Transmission zero loss. Transmission efficiency 100%

Optional IOT

- Option IOT remote control, Intelligent air energy operation and maintenance platform

Air cooled high efficiency permanent magnet motor

- 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
- IP55 protection grade ensure safe and reliable equipment operation. The motor has a 5-8% higher efficiency compared to asynchronous motor of the same capacity.



WHOLE STRUCTURE

JF series single-stage screw air compressor

High-efficiency filtration system

- Efficient oil-gas separator so that exhaust oil content is less than 3ppm;
- High precision oil filter to ensure the good oil supply state of the host, better protect the host, and prolong the service life of the host;
- High-efficiency vertical air filter to ensure the whole internal system of the compressor, clean and protect the rotor of the host, bearing to avoid wear and prolong the life of lubricating oil;



High efficiency inverter

- Adopt high-performance vector control technology, high accuracy of speed stability, speed range factory;
- High-speed output under vector control;
- Low-speed torque, small torque ripple;
- A variety of motor drives;

WHOLE STRUCTURE

High-efficiency air-cooled permanent magnet motor

- IP55 protection grade ensure safe and reliable equipment operation. Easy to maintain, permanent magnet efficiency. The motor has a 5-8% higher efficiency compared to asynchronous motor of the same capacity.
 - The host and motor share a shaft design, without intermediate transition parts, such as a centre bracket, coupling, pulley, gear, etc.
- Transmission loss is reduced to zero, and transmission efficiency is 100%



Touch the big screen Superior man-machine experience

- Visual display on-site, mobile phone and computer simultaneously, synchronous display of users, service providers and manufacturers: operation status, operation data, fault warning, etc.;
- Real-time online monitoring of pressure, power, and temperature fluctuations;
- Optional IoT Technology.



High-performance cooling system

- High heat dissipation efficiency, ensuring high temperature and humidity 24-hour continuous operation in the environment



AP SERIES

Single Stage Screw Compressor

All-in-one structure design

- All-in-one fully enclosed structure, highly integrated, small volume and occupies little space

Intelligent design

- Complete microcomputer control

Coaxial integrated direct connection technology

- No intermediate transition such as center bracket, coupling, pulley, gear and other linkage components. Transmission zero loss. Transmission efficiency 100%

Air-cooled high-efficiency permanent magnet motor

- Rotor no slip, no electric excitation, rotor no fundamental wave iron, copper loss and less heat loss, reduce the stator current and stator resistance loss
- The motor has a 5-8% higher efficiency compared to asynchronous motor of the same capacity and maintains high efficiency even when running at low speed

- Power: 7.5-37kW
- Pressure: 7/8/10bar

Entry-level energy-saving air compressor for small and micro enterprises



AP SERIES

Special Matching Use Air Compressor Unit

Combined all-in-one design

- Integrated air compressor, air dryer, air tank, high efficiency filter. No need install piping. Plug and use. Reduce pressure loss in dry air output

Energy-saving drying system design

- Reduce pressure loss of dry air output
- Provide dry compressed air solutions

Coaxial integrated direct connection technology

- No intermediate transition such as center bracket, coupling, pulley, gear and other linkage components, transmission zero loss, transmission efficiency 100%

Air-cooled high-efficiency permanent magnet motor

- Rotor no slip, no electric excitation, rotor no fundamental wave iron, copper loss and less heat loss, reduce the stator current and stator resistance loss
- The motor has a 5-8% higher efficiency compared to asynchronous motor of the same capacity and maintains high efficiency even when running at low speed

- Power: 7.5-22kW
- Pressure: 7/8/10 bar



WHOLE STRUCTURE

AP series single-stage screw air compressor

High efficiency filtration system

- Efficient oil and gas separator so that exhaust oil content is less than 3ppm;
- High precision oil filter to ensure the good oil supply state of the host, better protect the host, and prolong the service life of the host;
- Efficient vertical air filter to ensure the whole internal system of the compressor, clean and protect the rotor of the host, bearing to avoid wear and prolong the life of lubricating oil.



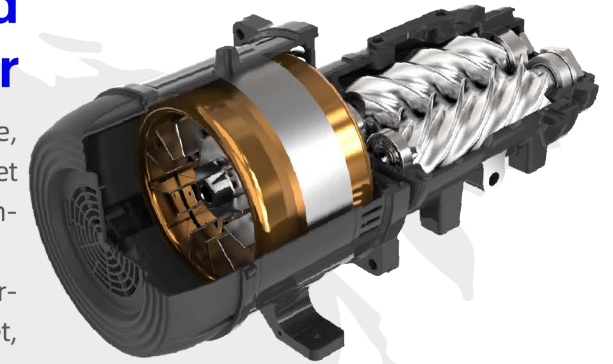
High efficiency inverter

- Adopt a well-known brand inverter with high stability and reliability;
- Provides a minimization algorithm for high-speed rotation;
- High-speed rotation function that saves energy by adjusting the frequency (HZ).

WHOLE STRUCTURE

High-efficiency air-cooled permanent magnet motor

- Good cooling effect, unique design, small volume, lightweight, easy maintenance, permanent magnet efficiency. The motor has a 5-8% higher efficiency compared to asynchronous motor of the same capacity.
 - The host and motor share a shaft design, without intermediate transition parts, such as a centre bracket, coupling, pulley, gear, etc.
- Transmission loss is reduced to zero, and transmission efficiency is 100%



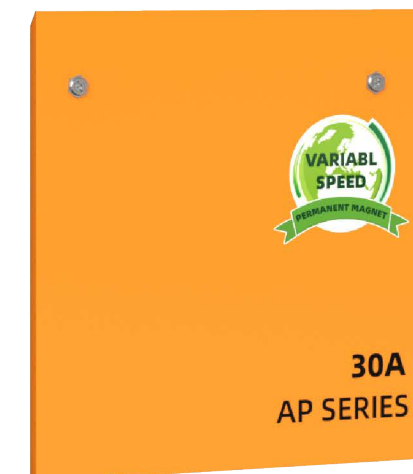
Intelligent Control Panel

- Device running state at a glance, monitoring system running



High-performance cooling system

- High heat dissipation efficiency, ensuring high temperature and humidity 24-hour continuous operation in the environment



JF SERIES

Special Matching Use Air Compressor Unit

Combined all-in-one design

-Integrated air compressor, air dryer, air tank, high efficiency filter. No need install piping. Plug and use.Reduce pressure loss in dry air output

Energy-saving drying system design

- Reduce pressure loss of dry air output
- Provide dry compressed air solutions

Noise reduction and vibration damping design

-Adopting a vibration-damping design and flexible pipeline connections effectively reduces vibration and noise, operational noise below 80 dB(A)

Air-cooled high-efficiency permanent magnet motor

- Rotor no slip, no electric excitation, rotor no fundamental wave iron, copper loss and less heat loss, reduce the stator current and stator resistance loss
- The motor has a 5-8% higher efficiency compared to asynchronous motor of the same capacity and maintains high efficiency even when running at low speed

- **Power:7.5-15kW**
- **Pressure:7/8/10bar**

