

**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.

Add: No.8, Chaoping Street, East Industry Center, Wenling, Taizhou City, Zhejiang Province, China

Zip Code: 317511

WhatsApp: +86 19579673005

Email: xinleiglobal@xinlei.com

Web: <https://www.xinleiglobal.com/>

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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 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**
- **300+
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

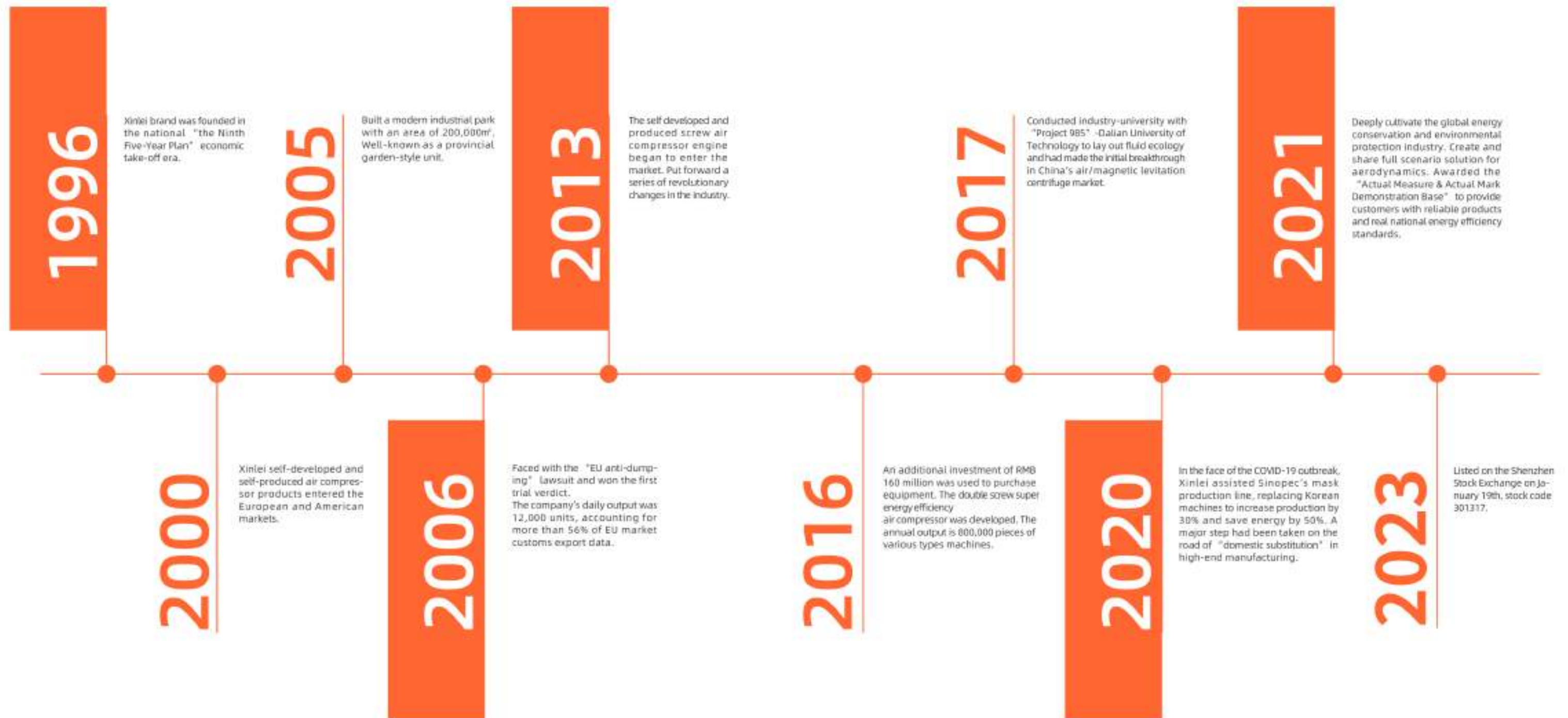
Zhejiang export famous brand & "Made in Zhejiang" Standard

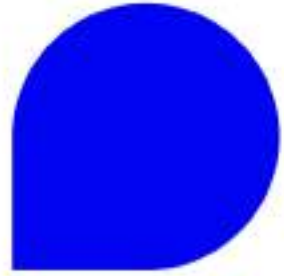
2020 Excellent supplier in cement industry

2021 China's industrial aquatic innovation equipment

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

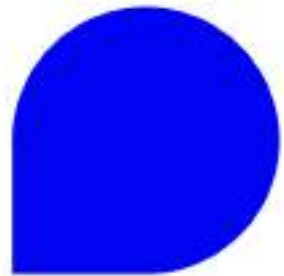
COMPANY EVENTS AND DEVELOPMENT





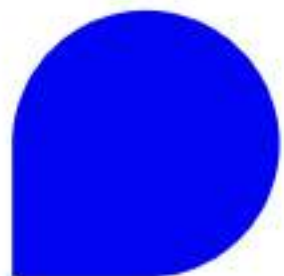
Zhong Renzhi
Chairman

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.



MAZAK Machining center precision machining

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.



INNOVATION

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



TECHNICAL PARAMETERS

Model	Power(kW)	HP	Air flow(m³/min)	Pressure(bar)	Dimension(mm)	Weight(kg)	Outlet size
SE-10EPM	7.5	10	1.22	7	900X740X950	148	Rp3/4
			1.16	8			
			1.06	10			
			1.89	7			
SE-15EPM	11	15	1.80	8	1050X800X1030	210	Rp3/4
			1.64	10			
			2.60	7			
			2.48	8			
SE-20EPM	15	20	2.26	10	1050X800X1030	220	Rp3/4
			3.94	7			
			3.75	8			
			3.41	10			
SE-30EPM	22	30	5.46	7	1100X850X1190	286	Rp1 1/4
			5.20	8			
			4.73	10			
			6.77	7			
SE-40EPM	30	40	6.45	8	1250X950X1400	416	Rp1 1/2
			5.87	10			
			8.21	7			
			7.82	8			
SE-50EPM	37	50	7.12	10	1300X1000X1400	450	Rp1 1/2
			10.36	7			
			9.87	8			
			8.98	10			
SE-60EPM	45	60	13.27	7	1650X1350X1540	1070	Rp2
			12.64	8			
			11.50	10			
			16.79	7			
SE-75EPM	55	75	15.62	8	2380X1440X1530	2000	DN65
			14.10	10			
			21.50	7			
			20.80	8			
SE-100EPM	75	100	20.16	10	2380x1640x1670	2200	DN65
			25.90	7			
			25.00	8			
			24.20	10			
SE-120EPM	90	120					
SE-150EPM	110	150					
SE-175EPM	132	175					

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50HZ standard grid. Please ask separately for non-standard, high temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

SUPER ENERGY

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

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

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

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



TECHNICAL PARAMETERS

Model	Power(kW)	HP	Air flow (m ³ /min)	Pressure (bar)	Dimension(mm)	Weight(kg)	Outlet Size
With air tank							
SE-10EPM-TD	7.5	10	1.22	7	1710X770X1610	380	Rp3/4
			1.16	8			
			1.06	10			
SE-15EPM-TD	11	15	1.89	7	2015X830X1800	505	Rp3/4
			1.8	8			
			1.64	10			
SE-20EPM-TD	15	20	2.6	7	2015X830X1800	505	Rp3/4
			2.48	8			
			2.26	10			
			1.35	15	1910X880X1685		
SE-30EPM-TD	22	30	3.94	7	2280X880X1930	600	Rp1
			3.75	8			
			3.41	10			
			2.2	15	2210X910X1875		

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB30853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50HZ standard grid. Please ask separately for non-standard. High temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

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



TECHNICAL PARAMETERS

Model	Power(kW)	HP	Air flow(m³/min)	Pressure(bar)	Dimension(mm)	Weight(kg)	Outlet Size
With air tank							
XLPM3AT	2.2	3	0.27	7	1130X560X1195	170	Rp3/4
			0.24	8			
			0.20	10			
XLPM4AT	3	4	0.39	7	1130X560X1195	170	Rp3/4
			0.35	8			
			0.29	10			
XLPM5.5AT	4	5.5	0.52	7	1130X560X1195	170	Rp3/4
			0.49	8			
			0.41	10			
XLPM7.5AT	5.5	7.5	0.70	7	1130X560X1195	175	Rp3/4
			0.66	8			
			0.57	10			

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50HZ standard grid. Please ask separately for non-standard. High temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

Suitable for small-scale factories, air protection industry, hardware industry, spraying industry, building decoration industry, etc.



Inflation



Painting



Pneumatic wrench



Car Washing

220V single-phase power supply. No threshold for use

WHOLE STRUCTURE

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;



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%



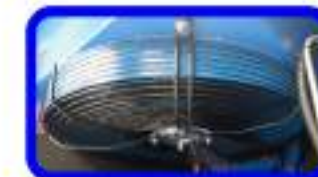
Touch the big screen Superior man-machine experience

- 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



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.

- Power: 7.5-90kW
- Pressure: 7/8/10bar



TECHNICAL PARAMETERS

Model	Power(kW)	HP	Air flow (m ³ /min)	Pressure(bar)	Dimension(mm)	Weight(kg)	Outlet Size
JFPM-10A	7.5	10	1.17	7	840×670×925	170	Rp3/4
			1.11	8			
			1.01	10			
JFPM-15A	11	15	1.84	7	1000×820×1145	255	Rp3/4
			1.76	8			
			1.60	10			
JFPM-20A	15	20	2.54	7	1000×820×1145	255	Rp3/4
			2.42	8			
			2.20	10			
JFPM-30A	22	30	3.84	7	1100×880×1185	335	Rp1 1/4
			3.66	8			
			3.33	10			
JFPM-40A	30	40	5.32	7	1300×1000×1365	500	Rp1 1/2
			5.07	8			
			4.61	10			
JFPM-50A	37	50	6.64	7	1300×1000×1365	515	Rp1 1/2
			6.32	8			
			5.75	10			
JFPM-60A	45	60	7.96	7	1300×1000×1365	530	Rp1 1/2
			7.59	8			
			6.90	10			
JFPM-75A	55	75	10.05	7	1600×1300×1580	1010	Rp2
			9.57	8			
			8.71	10			
JFPM-100A	75	100	13.01	7	1600×1300×1580	1062	Rp2
			12.39	8			
			11.27	10			
JFPM-120A	90	120	15.61	7	1600×1300×1580	1062	Rp2
			14.86	8			
			13.53	10			

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50HZ standard grid. Please ask separately for non-standard. High temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

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**

TECHNICAL PARAMETERS

Model	Power(kw)	HP	Air flow (m³/min)	Pressure (bar)	Dimension(mm)	Weight (kg)	Outlet Size	gas tank capacity(L)
With air tank								
JFPM-10AT	7.5	10	1.17	7	1490×670×1640	285	Rp3/4	300
			1.11	8				
			1.01	10				
JFPM-15AT	11	15	1.84	7	1575×820×1880	355	Rp3/4	300
			1.76	8				
			1.60	10				
JFPM-20AT	15	20	2.54	7	1575×820×1880	355	Rp3/4	300
			2.42	8				
			2.20	10				
With air tank and dryer								
JFPM-10ATD	7.5	10	1.17	7	1690×670×1640	345	Rp3/4	350
			1.11	8				
			1.01	10				
JFPM-15ATD	11	15	1.84	7	1910×820×1880	495	Rp3/4	410
			1.76	8				
			1.60	10				
JFPM-20ATD	15	20	2.54	7	1910×820×1880	495	Rp3/4	410
			2.42	8				
			2.20	10				

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50Hz standard grid. Please ask separately for non-standard. High temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

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%



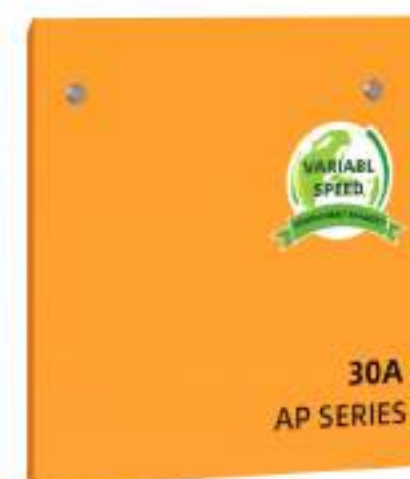
Intelligent Control Panel

- 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



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



TECHNICAL PARAMETERS

Model	Power(kw)	HP	Air flow (m³/min)	Pressure(bar)	Dimension(mm)	Weight(kg)	Outlet Size
XLPM-10A	7.5	10	7	1.12	820×540×810	120	Rp3/4
			8	1.07			
			10	0.97			
XLPM-15A	11	15	7	1.80	1020×640×1020	165	Rp3/4
			8	1.71			
			10	1.56			
XLPM-20A	15	20	7	2.48	1020×640×1020	195	Rp3/4
			8	2.36			
			10	2.15			
XLPM-30A	22	30	7	3.74	1100×670×1130	255	Rp1 1/4
			8	3.56			
			10	3.24			
XLPM-40A	30	40	7	5.20	1220×850×1240	390	Rp1 1/2
			8	4.95			
			10	4.50			
XLPM-50A	37	50	7	6.49	1220×850×1240	400	Rp1 1/2
			8	6.18			
			10	5.63			

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50Hz standard grid. Please ask separately for non-standard. High temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

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**



TECHNICAL PARAMETERS

With air tank								
Model	Power(kW)	HP	Air flow (m³/min)	Pressure(bar)	Dimension(mm)	Weight(kg)	Outlet Size	gas tank capacity (L)
XLPM-10AT	7.5	10	7	1.12	1400×560×1525	215	Rp3/4	260
			8	1.07				
			10	0.97				
XLPM-15AT	11	15	7	1.80	1575×640×1755	340	Rp3/4	300
			8	1.71				
			10	1.56				
XLPM-20AT	15	20	7	2.48	1575×640×1755	340	Rp3/4	300
			8	2.36				
			10	2.15				
XLPM-30AT	22	30	7	3.74	1755×670×1945	425	Rp3/4	580
			8	3.56				
With air tank and dryer								
Model	Power(kW)	HP	Air flow (m³/min)	Pressure(bar)	Dimension(mm)	Weight(kg)	Outlet Size	gas tank capacity (L)
XLPM-10ATD	7.5	10	7	1.12	1690×540×1525	320	Rp3/4	350
			8	1.07				
			10	0.97				
XLPM-15ATD	11	15	7	1.80	1910×640×1755	410	Rp3/4	410
			8	1.71				
			10	1.56				
XLPM-20ATD	15	20	7	2.48	1910×640×1755	410	Rp3/4	410
			8	2.36				
			10	2.15				
XLPM-30ATD	22	30	7	3.74	2145×670×1755	545	Rp1	650
			8	3.56				
			10	3.24				

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50Hz standard grid. Please ask separately for non-standard: High temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

应用领域 APPLICATION AREA



Pneumatic Tools, Control Valves, General Instruments, Precision Sandblasting

Precision Industry, Precision Instruments, Textiles, Chemical Fiber Processing, General Coating

Electronics Industry, Chip Manufacturing, Advanced Spraying, Film Industry, Petrochemical Industry

Hospitals, Transportation, Pharmaceuticals, Mixing, Packaging and Sealing

Food Industry, Pharmaceutical Industry, Cleanroom Testing Instruments

Chemical Analysis, Laboratories, Drying, Brewing Industry, High Voltage Electrical Insulation, Powder Storage, Optical Lenses, Electrostatic Coating

XINLEI COMPRESSOR CO.,LTD.

Add: No.8, Chaoping Street, East Indus-
try Center, Wenling, Taizhou City, Zheji-
ang Province, China

Zip Code: 317511

WhatsApp: +86 19519613005

Email: xinleiglobal@xinlei.com

Web: www.xinleiglobal.com

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The information description in this catalog is
not suitable for all situations due to the difference
of time and recipient. The specific informa-
tion shall be implemented according to the
contract.

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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202512

**XINLEI
COMPRESSOR
CO.,LTD.**

**ENERGY-SAVING
AIR COMPRESSOR**
INDUSTRY CUSTOMIZATION

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



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.**

• **149,000+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

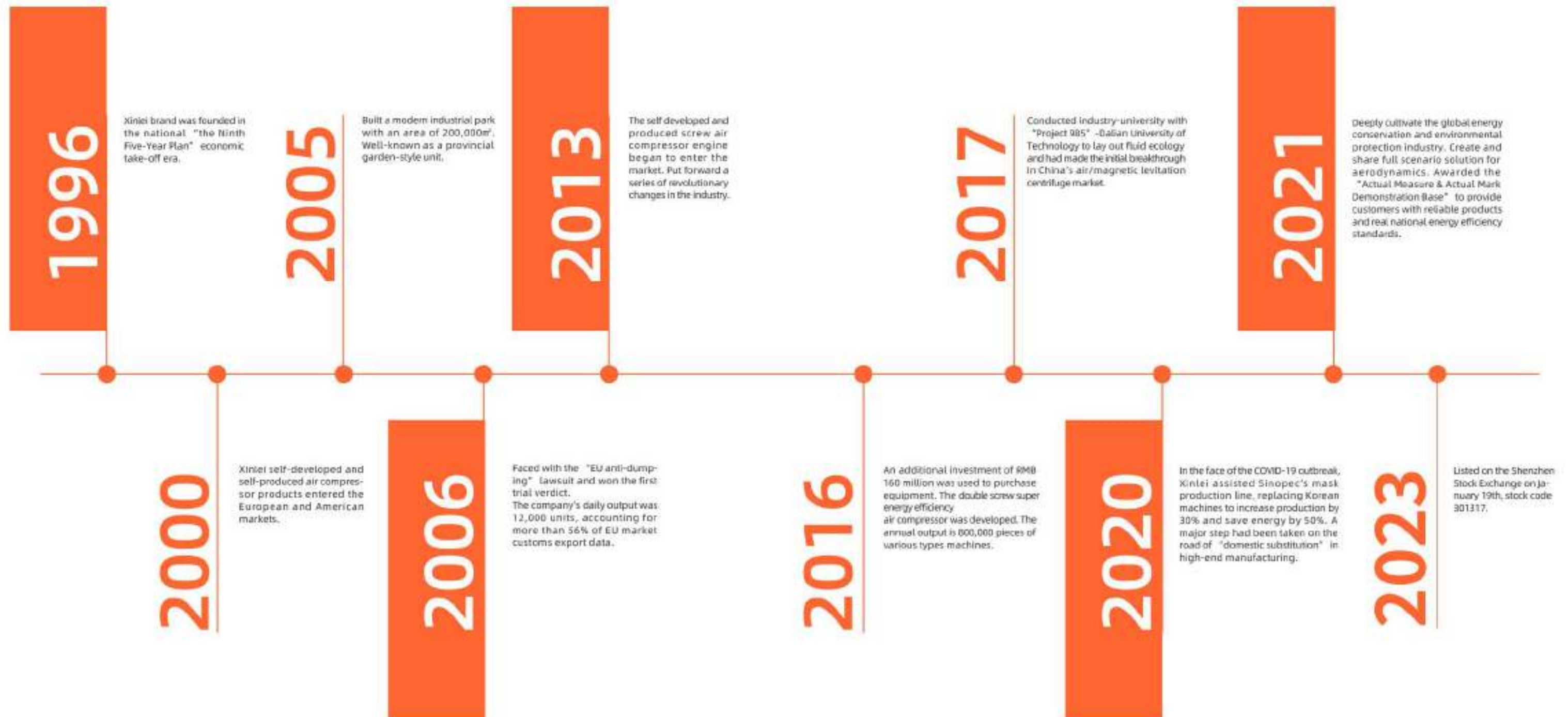
Zhejiang export famous brand & "Made in Zhejiang" Standard

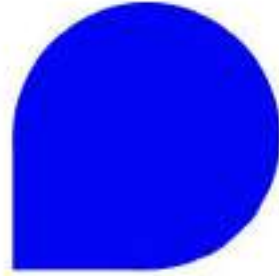
2020 Excellent supplier in cement industry

2021 China's industrial aquatic innovation equipment

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

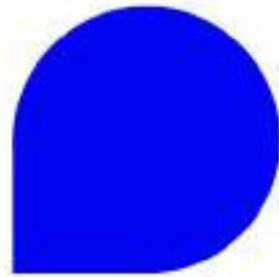
COMPANY EVENTS AND DEVELOPMENT





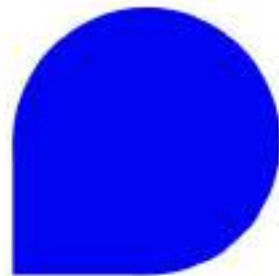
Zhong Renzhi
Chairman

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



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

CEEC
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
ZIJIN MINING

GREE 格力

Haier

COINCH
海螺水泥

Kingboard 建滔

Sinoma

中国中车
CRRC

ASIASTAR

蒙牛
MENGNIU

TSINGTAO
青岛啤酒

钱江集团
QIANJIANG GROUP

BAOWU 中国宝武

万年青
WANNIANQING

包钢集团
BAOGANG GROUP

山水集团
SUNNSY 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

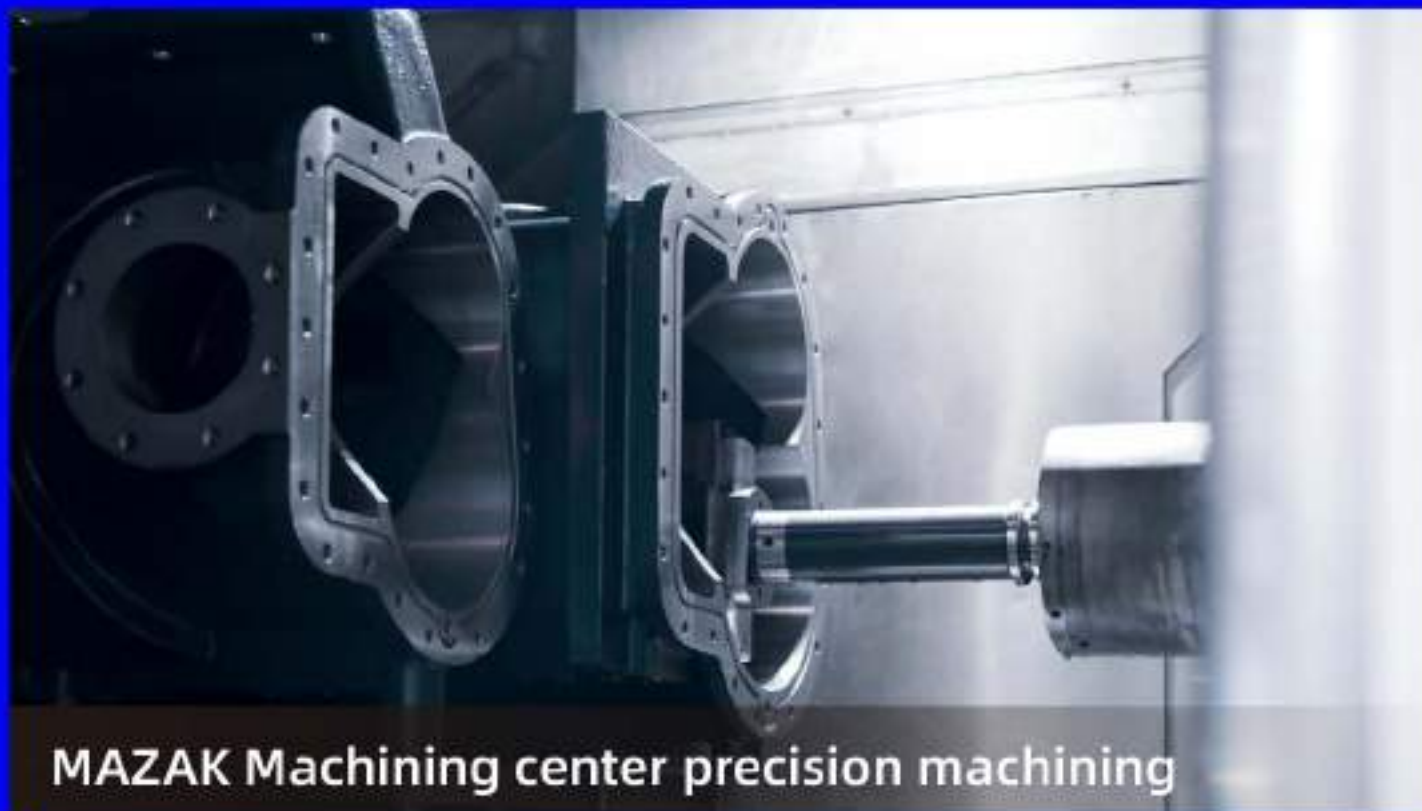


The core components are 85% patented High precision integrated coordination



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.



MAZAK Machining center precision machining

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°C; 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

Real better than Grade 1 energy efficiency

- Better than national level 1 energy efficiency (GB19153-2019 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 synchronous motor, Motor efficiency 95.5%, Energy saving 4.1%

Smart IOT

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

Oil-cooled screw air compressor

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

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



TECHNICAL PARAMETERS

Normal pressure series

Model	Power (kW)	HP	Dimension(mm) (WxDxH)	Air Flow (m³/min)	Pressure (bar)	Net Weight (kg)	Outlet Size
SE-30EPM-IID	22	30	1360x1010x1330	4.15-4.70 3.73	6-8 10	620	Rp1 1/4
SE-40EPM-IID	30	40	1360x1060x1330	5.79-6.57 5.21	6-8 10	650	Rp1 1/2
SE-50EPM-IID	37	50	1360x1060x1330	7.15-8.14 6.43	6-8 10	650	Rp1 1/2
SE-60EPM-IID	45	60	1810x1240x1780	8.83-9.97 7.95	6-8 10	1200	Rp2
SE-75EPM-IID	55	75	1810x1240x1780	10.96-12.69 9.87	6-8 10	1200	Rp2
SE-100EPM-IID	75	100	1810x1240x1780	14.95-17.30 13.46	6-8 10	1250	Rp2
SE-120EPM-IID	90	120	2740x2160x2000	18.24-20.92 16.41	6-8 10	2900	DN65
SE-150EPM-IID	110	150	2740x2160x2000	22.29-25.86 20.06	6-8 10	2900	DN65
SE-175EPM-IID	132	175	2740x2160x2000	26.70-31.03 24.1	6-8 10	3200	DN65
SE-200EPM-IID	160	200	3440x2390x2260	32.96-38.34 29.66	6-8 10	4500	DN100
SE-250EPM-IID	185	250	3440x2390x2260	38.80-44.67 34.88	6-8 10	4500	DN100
SE-270EPM-IID	200	270	3440x2390x2260	41.90-48.29 37.71	6-8 10	5600	DN100
SE-300EPM-IID	220	300	3440x2390x2260	46.09-53.12 41.48	6-8 10	6000	DN100
SE-350EPM-IID	250	350	3440x2390x2260	52.37-60.37 47.14	6-8 10	6000	DN100
SE-375EPM-IID	280	375	3980x2380x2520	57.68-65.42 51.91	6-8 10	6400	DN125
SE-420EPM-IID	315	420	3980x2380x2520	64.89-73.60 58.4	6-8 10	6400	DN125

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50HZ standard grid. Please ask separately for non-standard, high temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

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.



SUPER ENERGY
SE-17SEP-M-110-W-1

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

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 pressure 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 maintenance platform

Water-cooled screw air compressor

● **Power: 110-315kW**

● **Pressure: Normal pressure 7-8bar**



TECHNICAL PARAMETERS

Normal pressure series

Model	Power (kW)	HP	Dimension (mm)	Air flow (m³/min)	Pressure (bar)	Net Weight (kg)	Outlet Size
SE-150EPM-IID-W	110	150	2895X2195X2250	23.63	7	3550	DN80
				22.29	8		
SE-175EPM-IID-W	132	175	2895X2195X2250	28.40	7	3550	DN80
				26.70	8		
SE-200EPM-IID-W	160	200	3195X2395X2450	34.94	7	5200	DN100
				32.96	8		
SE-250EPM-IID-W	185	250	3195X2395X2450	41.08	7	5200	DN100
				38.76	8		
SE-270EPM-IID-W	200	270	3195X2395X2450	44.41	7	5200	DN100
				41.90	8		
SE-300EPM-IID-W	220	300	3195X2395X2450	48.85	7	5200	DN100
				46.09	8		
SE-350EPM-IID-W	250	350	3195X2595X2450	55.52	7	6050	DN125
				52.37	8		
SE-375EPM-IID-W	280	375	3195X2595X2450	61.14	7	6050	DN125
				57.68	8		
SE-420EPM-IID-W	315	420	3195X2595X2450	68.78	7	6050	DN125
				64.89	8		

The exhaust volume is measured under rated exhaust pressure, according to the national standard GB3853 (equivalent to ISO1217 Annex C). For the variable frequency series, the recommended usage frequency is 30%-100%. The above models operate at 380V/50Hz, standard power grid. For non-standard configurations, please inquire for additional pricing. For usage in harsh conditions such as high temperature, high humidity, extreme cold, and high dust, please inquire for additional pricing.

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.



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 pressure 6-10bar**



Low noise and vibration



Energy saving



Smart remote control



Easy to install



TECHNICAL PARAMETERS

Normal pressure series

Model	Power (kW)	HP	Pressure (bar)	Air flow (m³/min)	Dimension (mm) (WxDxH)	Net Weight (kg)	Outlet Size
SE-75EPM-IIDL	55	75	6-8	12.43-11.30	1830x1400x1575	1000	Rp2
			10	9.83			
SE-100EPM-IIDL	75	100	6-8	15.63-14.21	1980x1350x1595	1170	Rp2
			10	12.36			
SE-120EPM-IIDL	90	120	6-8	18.87-17.15	2380x1780x1800	1950	DN65
			10	14.92			
SE-150EPM-IIDL	110	150	6-8	23.03-20.94	2380x1780x1800	1970	DN65
			10	18.22			
SE-175EPM-IIDL	132	175	6-8	27.72-25.20	2380x1780x1800	2000	DN65
			10	21.92			

The exhaust volume is measured under rated exhaust pressure, according to the national standard GB3853 (equivalent to ISO1217 Annex C). For the variable frequency series, the recommended usage frequency is 30%-100%. The above models operate at 380/50HZ, standard power grid. For non-standard configurations, please inquire for additional pricing. For usage in harsh conditions such as high temperature, high humidity, extreme cold, and high dust, please inquire for additional pricing.

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;



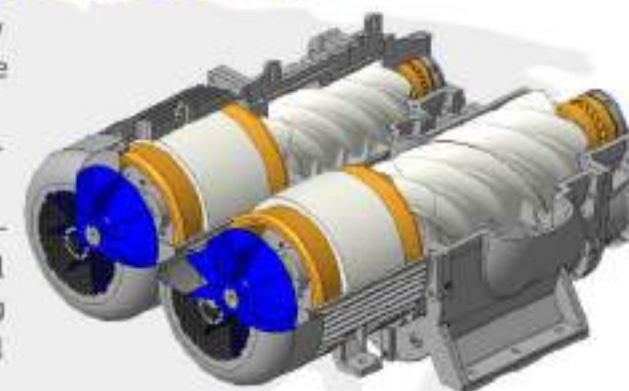
Dual Inverter System Constant Temperature & Constant Pressure

- 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 is 100%;
- 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 $\pm 0.005\text{MPa}$, 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;

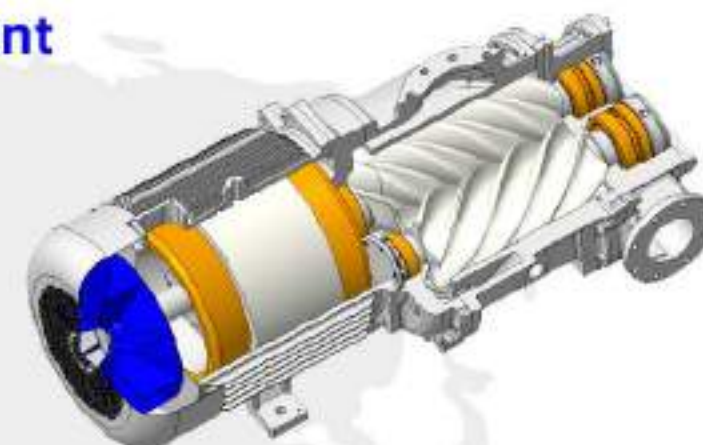


Independent oil supply design of oil pump

- 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 is 100%;



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



INDUSTRY CUSTOMI- ZATION

Grade 1 energy efficiency energy saving and envi- ronmental 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"



TECHNICAL PARAMETERS

Normal pressure series

Model	Power (kW)	HP	Dimension (mm) (WxDxH)	Air flow (m³/min)	Pressure (bar)	Net Weight (kg)	Outlet Size
XLPM30A-IID	22	30	1300x950x1340	4.15-4.70	6-8	590	Rp1 1/4
				3.73	10		
XLPM40A-IID	30	40	1350x1000x1350	5.79-6.57	6-8	670	Rp1 1/2
				5.21	10		
XLPM50A-IID	37	50	1350x1000x1350	7.15-8.14	6-8	670	Rp1 1/2
				6.43	10		
XLPM60A-IID	45	60	1760x1300x1720	8.83-9.97	6-8	1360	Rp2
				7.95	10		
XLPM75A-IID	55	75	1760x1300x1720	10.96-12.69	6-8	1360	Rp2
				9.87	10		
XLPM100A-IID	75	100	2670x1880x1820	14.95-17.30	6-8	2600	DN65
				13.46	10		
XLPM120A-IID	90	120	2670x1880x1820	18.24-20.92	6-8	2600	DN65
				16.41	10		
XLPM150A-IID	110	150	2740x2150x2000	22.29-25.86	6-8	3550	DN65
				20.06	10		

The exhaust volume is measured under rated exhaust pressure, according to the national standard GB3853 (equivalent to ISO1217 Annex C). For the variable frequency series, the recommended usage frequency is 30%-100%. The above models operate at 380/50HZ, standard power grid. For non-standard configurations, please inquire for additional pricing. For usage in harsh conditions such as high temperature, high humidity, extreme cold, and high dust, please inquire for additional pricing.

TECHNICAL PARAMETERS

Normal pressure series

Model	Power (kW)	HP	Dimension (mm) (WxDxH)	Air flow (m³/min)	Pressure (bar)	Net Weight (kg)	Outlet Size
XLPM175A-IID	132	175	2740x2150x2000	26.70-31.03	6-8	3550	DN65
				24.1	10		
XLPM200A-IID	160	200	3480x2380x2160	32.96-38.34	6-8	5300	DN100
				29.66	10		
XLPM250A-IID	185	250	3630x2380x2260	38.80-44.67	6-8	5500	DN100
				34.88	10		
XLPM270A-IID	200	270	3630x2380x2260	41.90-48.29	6-8	5500	DN100
				37.71	10		
XLPM300A-IID	220	300	3630x2380x2260	46.09-53.12	6-8	5500	DN100
				41.48	10		
XLPM350A-IID	250	350	3980x2380x2260	52.37-60.37	6-8	5800	DN100
				47.14	10		
XLPM375A-IID	280	375	3980x2380x2520	57.68-65.42	6-8	6000	DN125
				51.91	10		
XLPM420A-IID	315	420	3980x2380x2520	64.89-73.60	6-8	6300	DN125
				58.4	10		

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50HZ standard grid. Please ask separately for non-standard. High temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

TECHNICAL PARAMETERS

Low-voltage two-stage series

Model	Power (kW)	HP	Dimension (mm) (WxDxH)	Air flow (m³/min)	Pressure (bar)	Net Weight (kg)	Outlet Size
XLPM50A-IID	37	50	1760x1300x1720	9.58 8.71	4 5	1360	Rp2
XLPM60A-IID	45	60	1760x1300x1720	11.65 10.59	4 5	1360	Rp2
XLPM75A-IID	55	75	2670x1880x1920	15.13 13.75	4 5	2800	DN80
XLPM100A-IID	75	100	2670x1880x1920	20.63 18.75	4 5	2800	DN80
XLPM120A-IID	90	120	2970x2150x2050	24.75 22.50	4 5	3600	DN100
XLPM150A-IID	110	150	2970x2150x2050	30.89 28.09	4 5	3600	DN100
XLPM175A-IID	132	175	2970x2150x2050	37.07 33.70	4 5	3600	DN100
XLPM200A-IID	160	200	3980x2380x2450	45.91 41.74	4 5	6200	DN125
XLPM250A-IID	185	250	3980x2380x2450	53.09 48.26	4 5	6200	DN125
XLPM270A-IID	200	270	3980x2380x2450	57.39 52.17	4 5	6200	DN125
XLPM300A-IID	220	300	3980x2380x2450	63.13 57.39	4 5	6200	DN125
XLPM350A-IID	250	350	3980x2520x2450	71.74 65.22	4 5	6300	DN150

Low-voltage single stage series

Model	Power (kW)	HP	Air flow (m³/min)	Pressure (bar)	Dimension (mm) (WxDxH)	Net Weight (kg)	Outlet Size
XLLPM60A	45	60	15.26 13.27	2 3	2560X1710X1950	2500	DN80
XLLPM75A	55	75	19.66 17.09	2 3	2560X1710X1950	2500	DN80
XLLPM100A	75	100	26.81 23.31	2 3	2800X1800X2052	2800	DN100
XLLPM120A	90	120	32.20 28.00	2 3	2800X1800X2052	2800	DN100
XLLPM150A	110	150	37.61 32.70	2 3	3515X2230X2450	3300	DN150
XLLPM175A	132	175	47.23 41.07	2 3	3515X2230X2450	3500	DN150
XLLPM200A	160	200	54.69 47.56	2 3	3515X2230X2450	3500	DN150
XLLPM250A	185	250	66.78 58.07	2 3	3730X2430X2470	3500	DN150
XLLPM270A	200	270	70.28 61.11	2 3	3730X2430X2470	3500	DN150

The air flow is measured at the rated exhaust pressure and tested according to the national standard GB3853 (equivalent for ISO1217 Appendix C). Variable frequency series are recommended to use 30%-100% frequency. The above models are 380V 50HZ standard grid. Please ask separately for non-standard. High temperature, high humidity, high cold, high dust and other harsh working conditions using the compressors separately.

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;



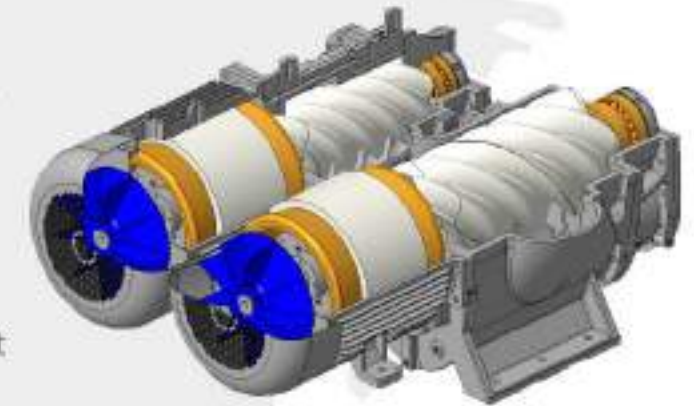
Dual Inverter System Constant Temperature & Constant Pressure

- 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 envi- ronmental 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 pressure 6-10bar**



Low noise
and vibration



Energy saving



Smart remote
control



Easy to install



TECHNICAL PARAMETERS

Normal pressure series

Model	Power (kW)	HP	Dimension (mm) (WxDxH)	Air flow (m³/min)	Pressure (bar)	Net Weight (kg)	Outlet Size
XLPM60W-IID	45	60	1760x1500x1700	8.83-9.97	6-8	1360	DN50
				7.95	10		
XLPM75W-IID	55	75	1760x1500x1700	10.96-12.69	6-8	1360	DN50
				9.87	10		
XLPM100W-IID	75	100	2670x1880x1820	14.95-17.30	6-8	2600	DN65
				13.46	10		
XLPM120W-IID	90	120	2670x1880x1820	18.24-20.92	6-8	2600	DN65
				16.41	10		
XLPM150W-IID	110	150	2740x2150x2050	22.29-25.86	6-8	3550	DN65
				20.06	10		
XLPM175W-IID	132	175	2740x2150x2050	26.75-31.03	6-8	3550	DN65
				24.07	10		
XLPM200W-IID	160	200	3260x2380x2260	32.96-38.34	6-8	5300	DN100
				29.66	10		
XLPM250W-IID	185	250	3260x2380x2260	38.76-44.67	6-8	6000	DN100
				34.88	10		
XLPM270W-IID	200	270	3260x2380x2260	41.90-48.29	6-8	6000	DN100
				37.71	10		
XLPM300W-IID	220	300	3260x2380x2260	46.09-53.12	6-8	6000	DN100
				41.48	10		
XLPM350W-IID	250	350	3260x2380x2260	52.37-60.37	6-8	6000	DN100
				47.14	10		
XLPM375W-IID	280	375	3260x2380x2450	57.68-65.42	6-8	6300	DN125
				51.91	10		
XLPM420W-IID	315	420	3260x2380x2450	64.89-73.60	6-8	6300	DN125
				58.4	10		

The exhaust volume is measured under rated exhaust pressure, according to the national standard GB1853 (equivalent to ISO1217 Annex C). For the variable frequency series, the recommended usage frequency is 30%-100%. The above models operate at 380/50Hz, standard power grid. For non-standard configurations, please inquire for additional pricing. For usage in harsh conditions such as high temperature, high humidity, extreme cold, and high dust, please inquire for additional pricing.

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.



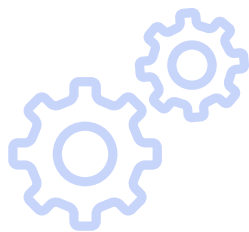
● Intelligent control, the station energy saving 5-30%

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.



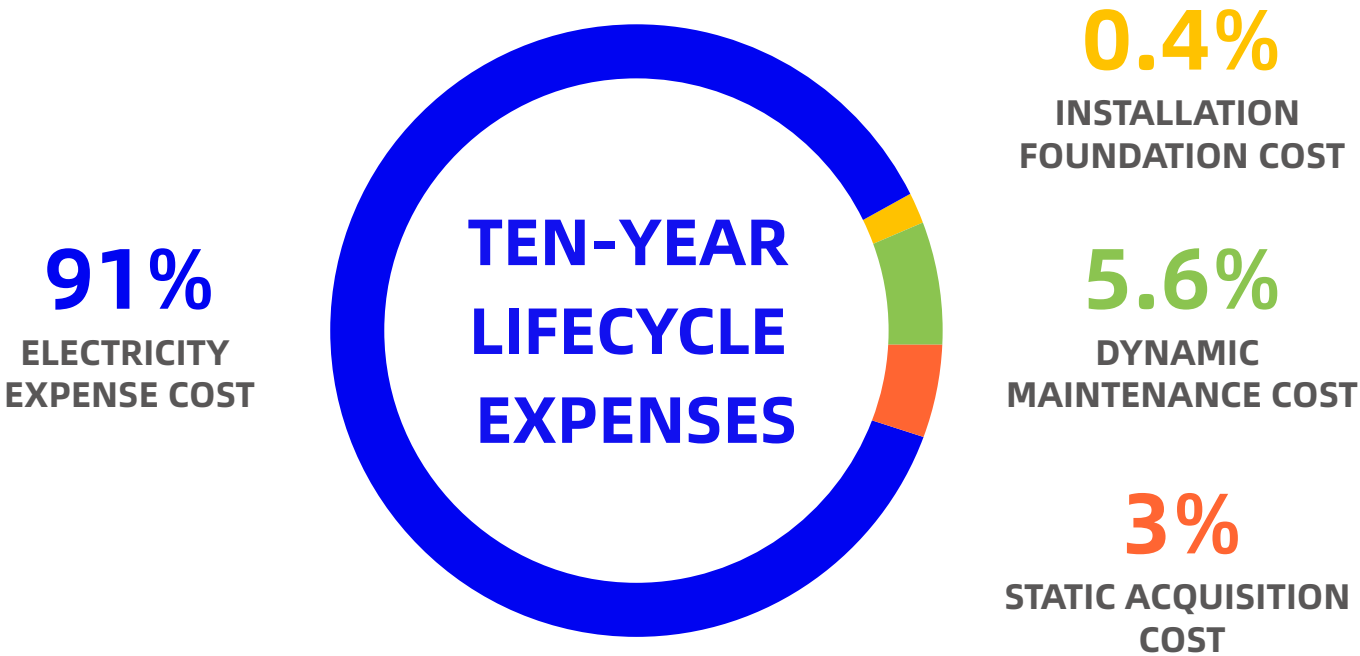
● Improve equipment operation and maintenance efficiency and energy-saving value

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.



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.



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.

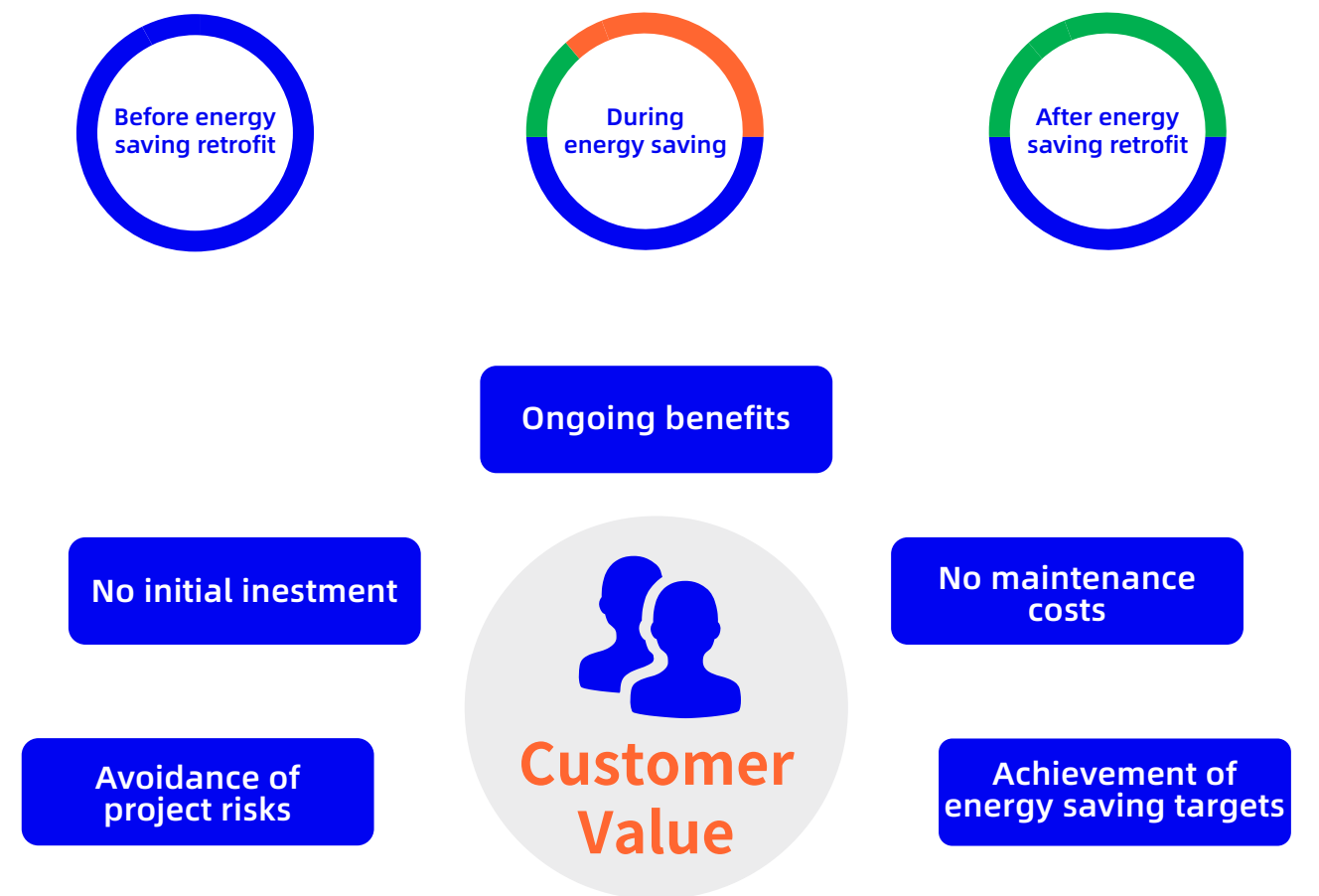
Contract energy management is an Energy saving

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, and recover investment and profit from the energy-saving benefits obtained by customers after energy saving transformation, a business operation mode.

■ Energy costs ■ Energy company benefits ■ Customer benefits



MODE OF COOPERATION

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: $(A-B)*Q*\text{unit price of electricity}$ where Q: the amount of air used in the month m^3 .

The benefits are then distributed as agreed in the contract.

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.

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.

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.**

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 stepless 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.

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.

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.

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, **reduce the cost of ineffective replacement**.
5. Integrated design, stable operation, **noise below 80dB**.
6. Standard IOT, data visualization, **remote and local joint control**.

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.

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.

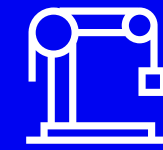
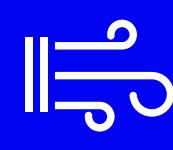
Solution

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 m³/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.

APPLICATIONS APPLICATION AREA



mining



petrochemical



cement building materials



advanced coating



machinery



glass



thermoelectricity



metallurgy



food



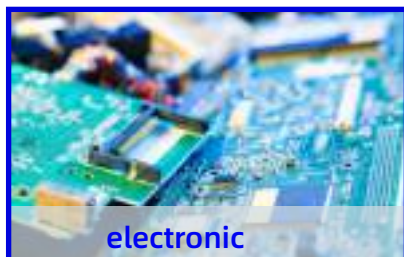
cast



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

XINLEI COMPRESSOR CO.,LTD.

Add: No.8, Chaoping Street, East Industry Center, Wenling, Taizhou City, Zhejiang Province, China

Zip Code: 317511

Fax: 0576-89969999

Email: xinleiglobal@xinlei.com

Web: www.xinleiglobal.com

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Xinlei official website



Xinlei Wechat subscription



Xinlei Tik Tok enterprise

XINLEI COMPRESSOR CO.,LTD.

BLOWER ENERGYSAVING SOLUTIONS

- **Magnetic Levitation**
- **Air Suspension**
- **Permanent Magnet**
- **Oil-free Screw**



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

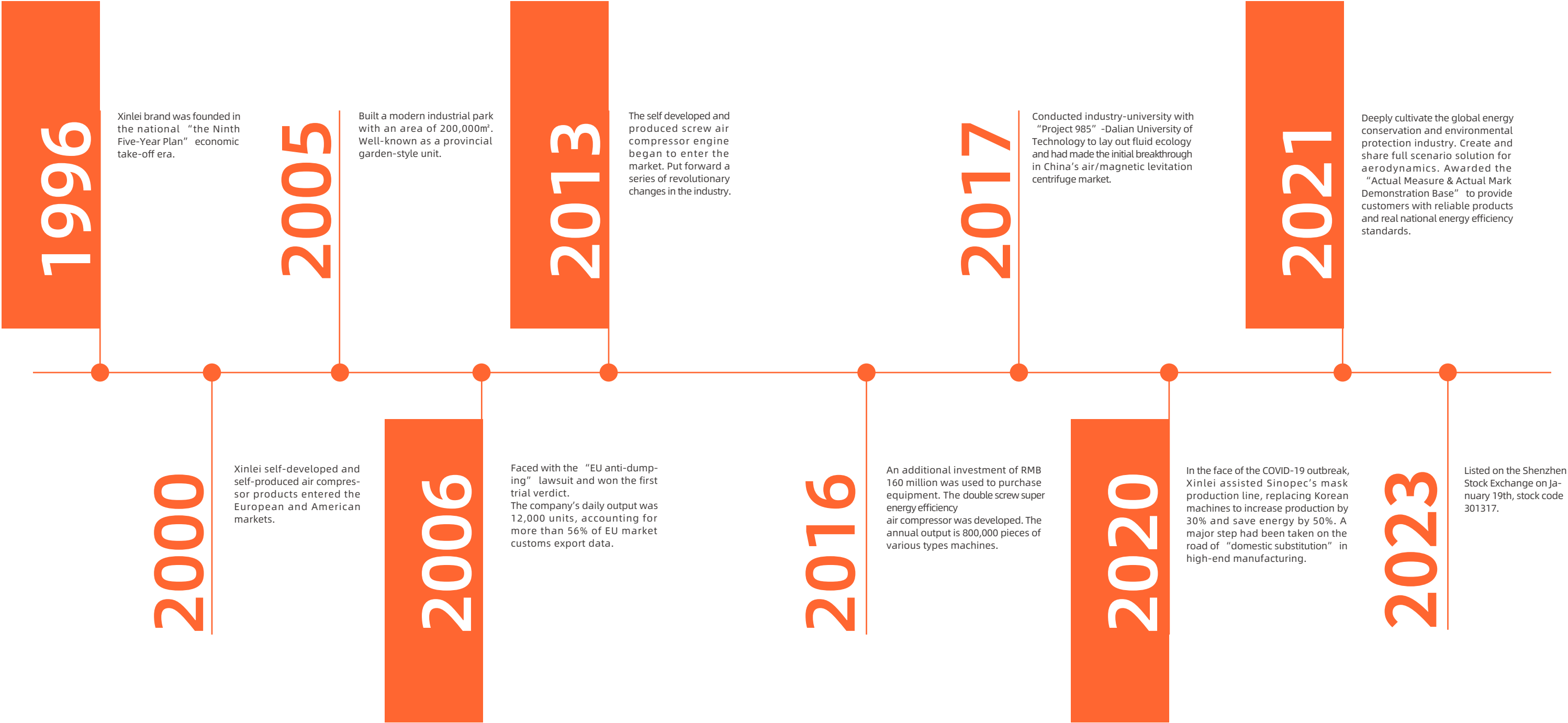
Zhejiang export famous brand & "Made in Zhejiang" Standard

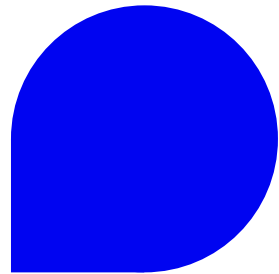
2020 Excellent supplier in cement industry

2021 China's industrial aquatic innovation equipment

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

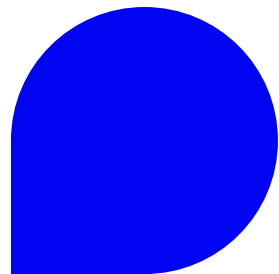
COMPANY EVENTS AND DEVELOPMENT





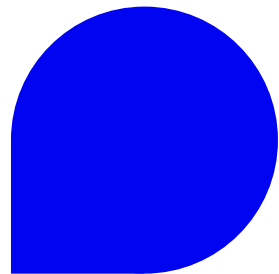
Zhong Renzhi
Chairman

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

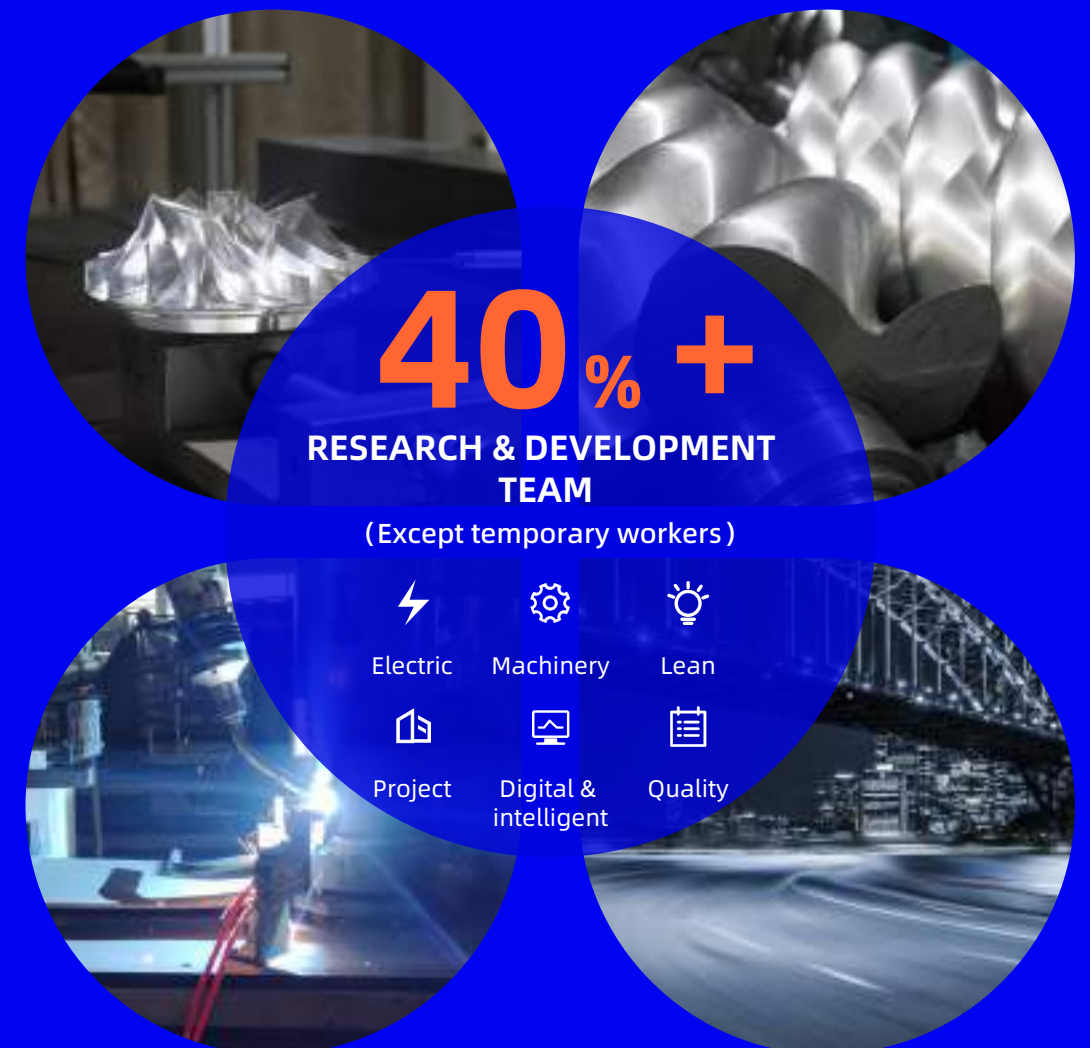
Contract Energy Management Engineer (Senior),
Engaged in the air compressor industry for nearly 20 years;
Mainly waiting for a number of air energy full-scene implementation plans, claiming 120+ patents.



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

○ KAPP rotor grinder machining center

○ MAZAK high precision machining center

ZEISS three-coordinate ○ testing center

○ Fine machining center

CHOICE OF FORTUNE 500 COMPANIES

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



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

IOT TECHNOLOGY

Based on the Internet, provide monitoring and digital scientific energy-saving management scheme of blower operation and use.

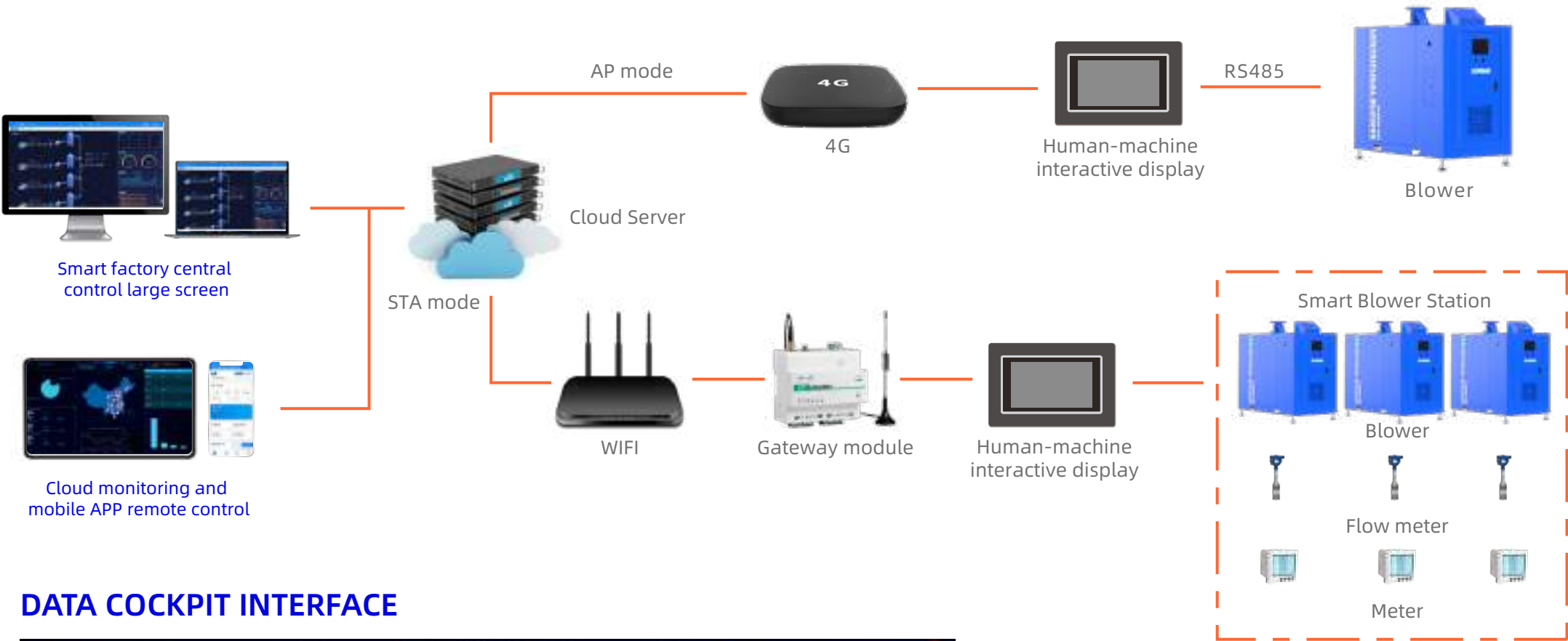
PRODUCT FUNCTION

The cloud platform can record and provide the running status, operating parameters, fault alarm and data recording analysis for the blower which has been bound. User can log in to the platform to achieve remote monitoring and energy-saving setting management in real time. At present the IOT cloud platform provides ANDROID, IOS and PC clients. And open the interface to realize the link with ERP and other third-party software to provide more possibilities for users.

CORE EQUIPMENT

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

TECHNICAL SCHEMATIC



DATA COCKPIT INTERFACE



- Visualize equipment running status and view real-time working status
- Real-time monitoring of energy consumption, real-time 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
- Equipment operation daily records, maintenance and daily management are more convenient
- Stable air pressure, scientific energy saving of the whole

INTERNET OF THINGS

CORE COMPONENTS OF CENTRIFUGAL BLOWER

INNOVATION



Magnetic bearing

FE optimizes magnetic design and minimizes eddy currents. High load capacity up to 10 KN radial and 20 KN thrust. No contact. No wear and no lubrication. Rotor unbalance compensation and dynamic support stiffness. Integrated vacuum potting technology. Applying in ophthalmic environments for a semi-permanent life.



Air suspension bearing

Use high-speed rotating centrifugal force to suspend itself; No vibration in bearings, simple construction, and no need for lubricating oil and auxiliary device. Work as non-contact, no need for maintenance and repair, Start/stop durability guarantee, passes the ON/OFF 20,000 times test.

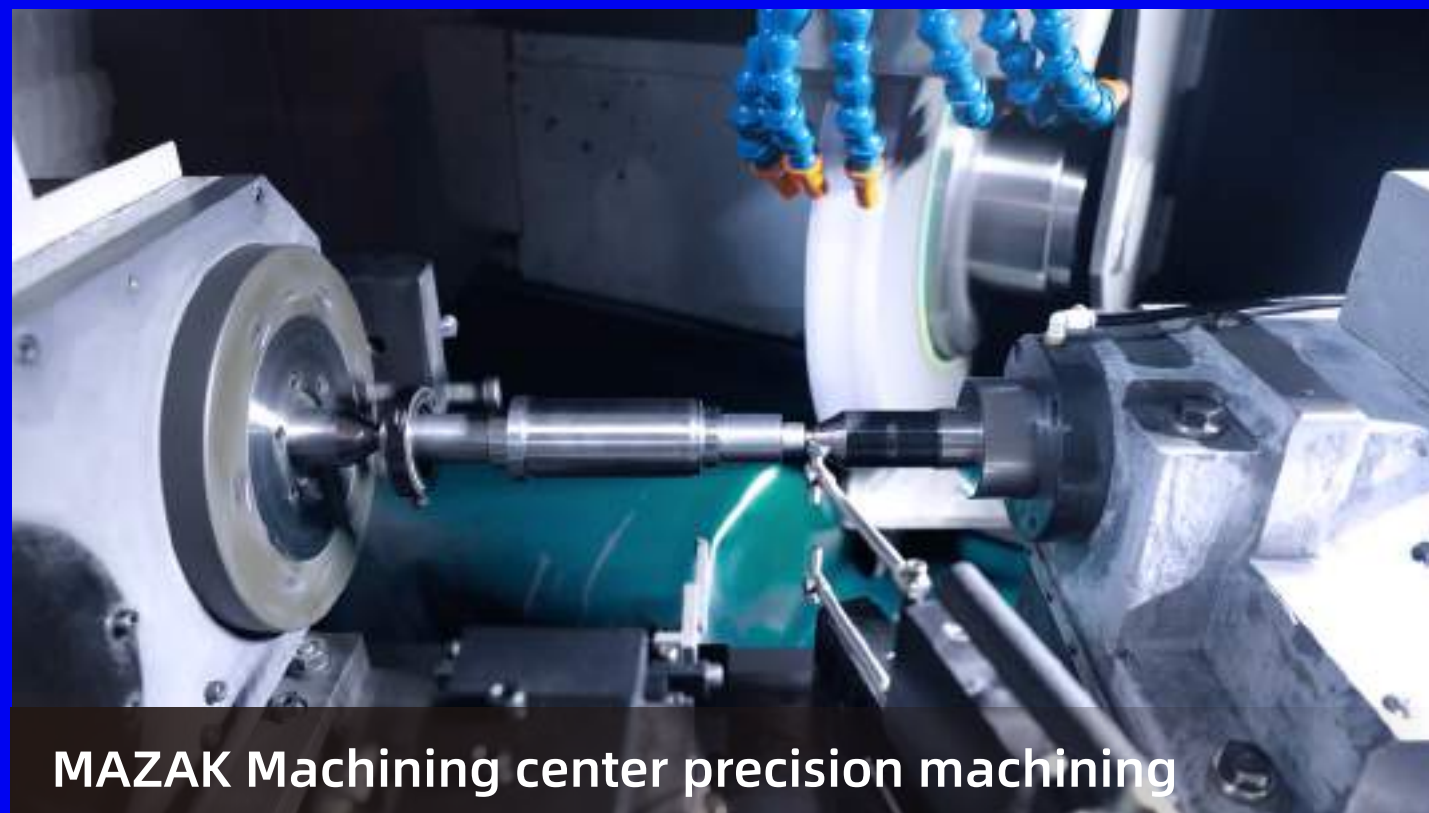


High speed ceramic ball bearing

High-speed ceramic balls with higher speeds and longer life. Stable and silent operation in high-temperature grease and high-speed conditions. High-temperature sealing material, no grease leakage, to make the whole machine oil-free. Unique contact angle design for stable operation with large axial forces.

Two core technologies

Derived from aviation turbine technology



MAZAK Machining center precision machining

IMPELLER COMBINED WITH MOTOR DIRECTLY

The Impeller and motor share the same shaft design, with no intermediate transition such as pulley and other connecting parts. No transmission loss, **The power transfer efficiency can reach 100%**



High-speed permanent magnet motor

Using high-efficiency permanent magnet synchronous motor (PMSM), the efficiency is 96%; The aerodynamic engineering technology, the speed can reach more than 20,000 rpm. The insulation grade is H class (Maximum temperature resistance 180°C).



Three-dimensional impeller

The high-order modal calculation obtains the optimal solution of the full arc of the full arc of the impeller, avoiding turbulence and reducing over speed blocking; Precision manufacturing of aviation aluminum, strong corrosion resistance; Precision manufactured by 5-axis machining center, the tolerance is kept below 5/1000mm.

SIX ADVANTAGES



30%

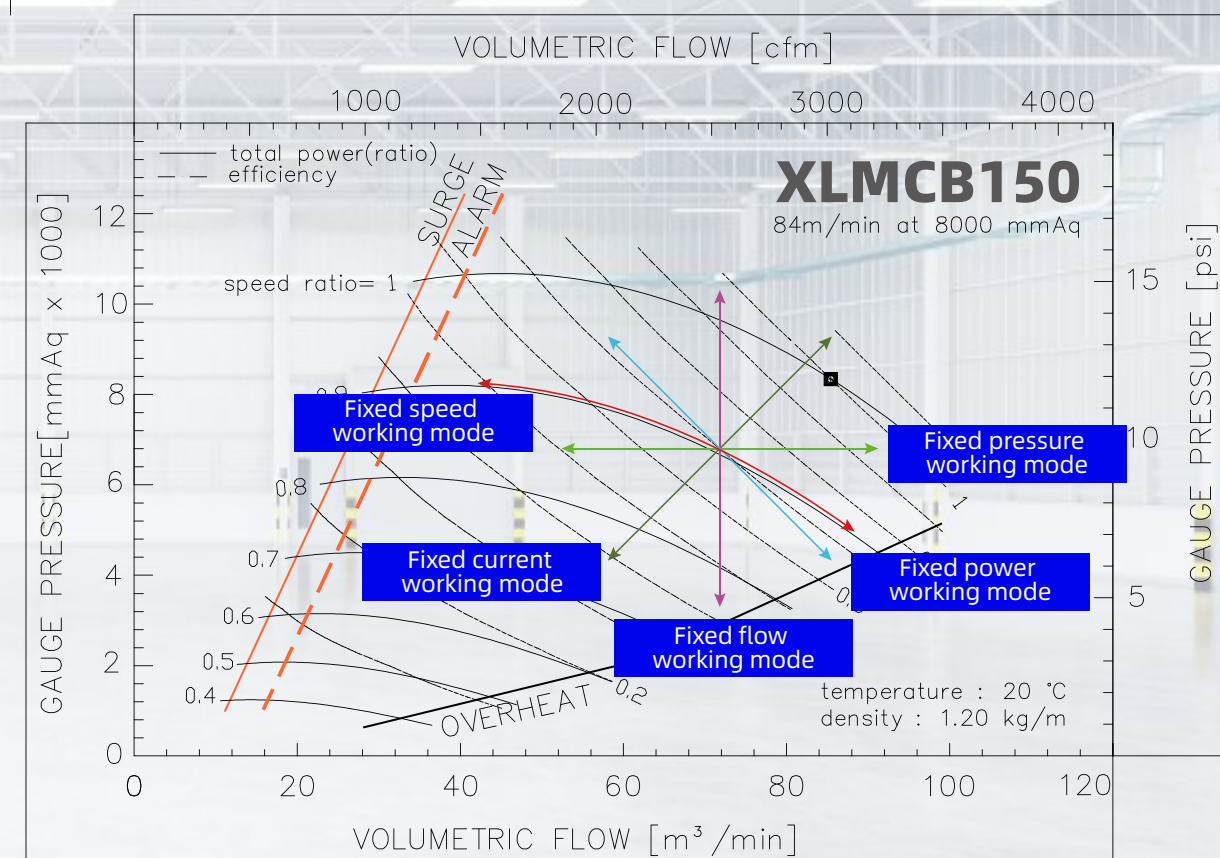
30% energy saving
than Roots blower

20years

No decline
in efficiency
during the life cycle

80dB

Noise below 80dB



Multiple operating modes Take Xinlei XLCB150-060 as an example

01 High efficiency,energy saving

Compared with traditional Roots blower, it can reduce power consumption by more than 30%.

02 Simple operation,intelligent control

Intelligent, user-friendly touch screen, with 5 operating modes and 5 protective functions.

03 Low noise,no vibration

Noise below 80 dB, no vibration, pro-environment, no foundation or anchor bolts required.

04 No lubrication ,maintenance free

100% oil-free air-floating bearing system to avoid secondary pollution, no need for regular maintenance and replacement of bearings.

05 Highly integrated,easy to install

The whole machine is highly integrated, small in size, light in weight and easy to install.

06 Long life,semi-permanent

Using air suspension bearing technology,semi-permanent design for more than 20 years, the efficiency does not decline during the life cycle.

WHOLE STRUCTURE

MAGNETIC LEVITATION CENTRIFUGAL BLOWER

The whole machine is highly integrated

Small size, light weight, special structure design, easy installation, portable disassembly and assembly.

PLC electronic control system

- Adopt international brand PLC. Real-time monitor the system operation data and trajectory;
- Multiple protection and early warning functions.

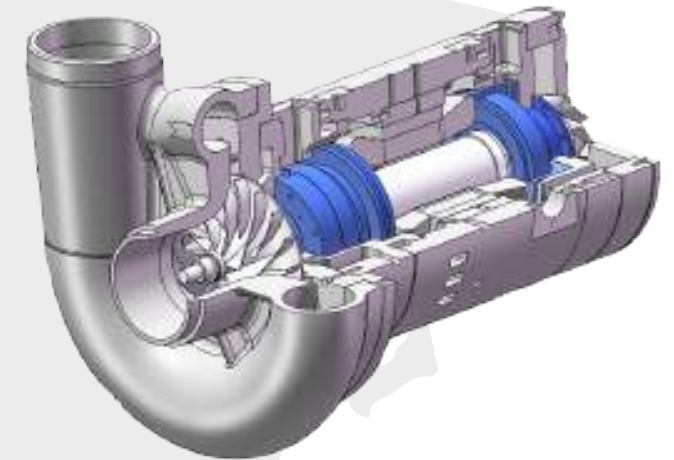


High efficiency inverter

- Adopt well-known brand inverter. High stability and reliability;
- Provide a minimization algorithm for high speed rotation;
- By adjusting the frequency(HZ) to achieve the high speed rotation function of saving energy.

Permanent magnet high speed engine

- The PMSM permanent magnet synchronous motor is optimized for high speed rotation. The efficiency can reach more than 97%. The inverter can be used for precise speed control;
- Precision machined ternary flow impeller;
- Five degrees of freedom magnetic bearing;
- Reliable sensor technology ensures the stable operation of the whole blower's magnetic suspension bearing system. Induced current or vortex current. Low noise and high resolution design. Integrated protection shield external magnetic fields.
- Liquid cooling/air cooling mode.



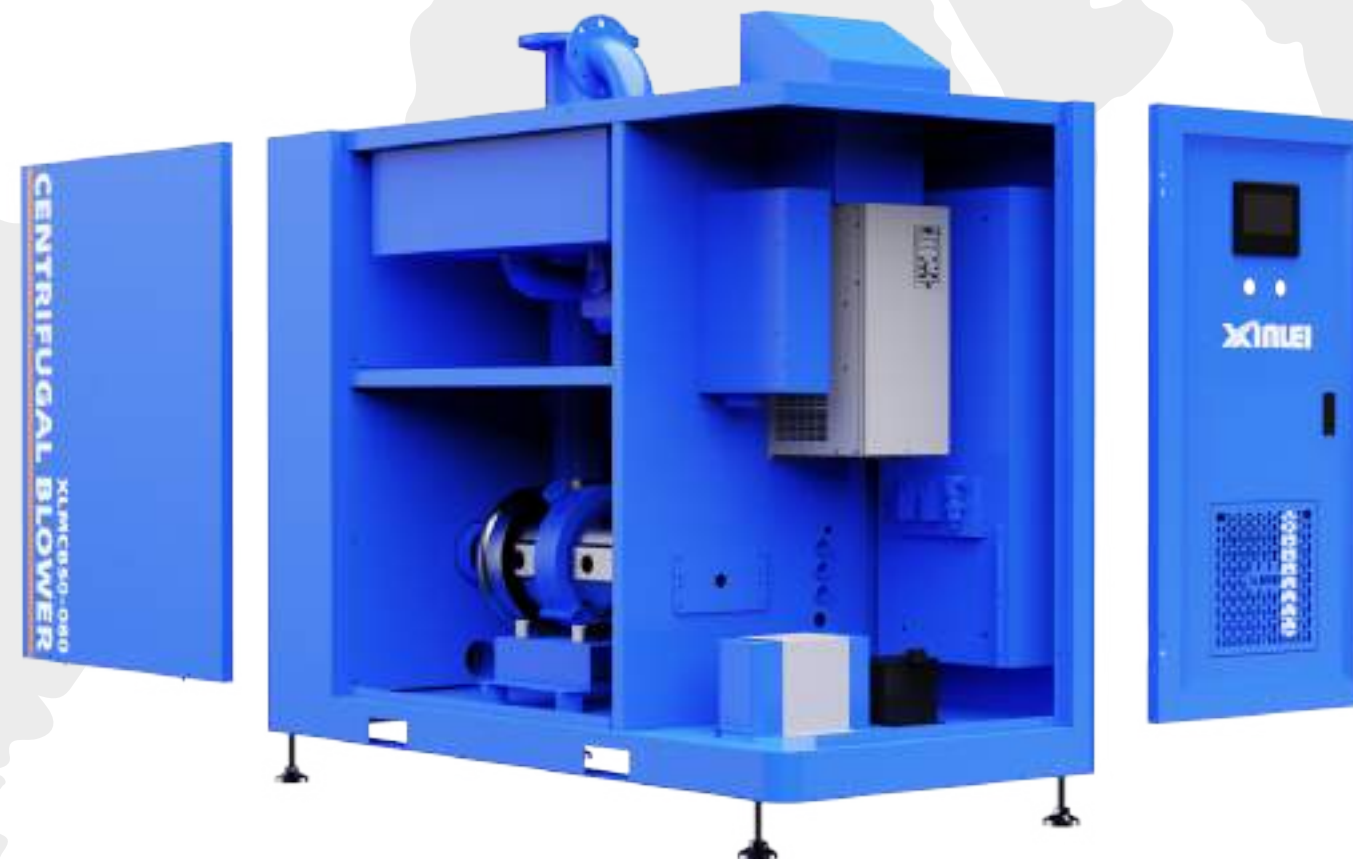
Magnetic bearing controller

- Full digital controller;
- Superior damping function;
- Multifunctional monitoring capability;
- Efficient service interface.



Magnetic levitation bearing sensor

- Reliable sensor technology ensures the stable operation of the whole blower's magnetic suspension bearing system.
- Induced current or vortex current.
- One sensor unit(3 displacement, 1 rotation) standby pulse sensor has four induction channels.
- Low noise and high resolution design, integrated protection shield external magnetic fields.



COMPREHENSIVE ADVANTAGES

Energy efficient

- 30% energy saving compared with traditional Roots blower

Efficient Air Energy Management

- PLC control system + touch screen, real-time monitoring system operation
- Standard Internet of Things, component background service platform, control the operation anytime, anywhere

Low maintenance cost

- Semi-permanent design under 20 years, no iterative troubles
- 100% oil-free air-floating bearing system to avoid secondary pollution, no need for regular maintenance and replacement of bearings

Easy to install

- The whole machine is highly integrated, small in size and light in weight
- No foundation or anchor bolts required

Magnetic Levitation Centrifugal Blower

TURBO BLOWER

● Power:22-750kW

● Pressure:40-120kPa



Low noise
no vibration



Energy saving and
environmental
protection



Intelligent
remote control



Convenient disassembly
and assembly



PARAMETER SELECTION

Technical data sheet XLMCB30-XLMCB150 (60/80/100/120kPa)

Model		XLMCB 30	XLMCB 40	XLMCB 50	XLMCB 60	XLMCB 75	XLMCB 100	XLMCB 125	XLMCB 150
Power	kW	22	30	37	45	55	75	90	110
Pressure	kPa	Air flow(m³/min): 1atm, 20°C, Humidity 65%							
	60	20	27	34	42	52	69	82	105
	80	17	23	28	34	43	56	71	84
	100	-	-	22	26	35	48	57	73
	120	-	-	-	-	-	39	48	58
Size(mm)	W	900	900	900	900	900	900	1050	1050
	L	1900	1900	1900	1900	1900	1900	2150	2150
	H	1730	1730	1730	1760	1760	1760	1970	1970
Weight	kg	650	660	670	710	720	730	1070	1080
Outlet pipe diameter		DN150	DN150	DN150	DN200	DN200	DN200	DN300	DN300

Technical data sheet XLMCB200-XLMCB1000 (60/80/100/120kPa)

Model		XLMCB 200	XLMCB 250	XLMCB 300	XLMCB 400	XLMCB 500	XLMCB 600	XLMCB 800	XLMCB 1000
Power	kW	150	185	220	300	375	450	600	750
Pressure	kPa	Air flow(m³/min): 1atm, 20°C, Humidity 65%							
	60	140	160	210	272	320	420	545	640
	80	109	135	164	216	270	325	430	540
	100	96	118	145	190	225	270	360	452
	120	78	95	117	156	200	240	318	400
Size(mm)	W	1350	1350	1500	1500	1500	1500	1800	1800
	L	2650	2650	3000	3000	3250	3250	3500	3500
	H	2200	2200	2525	2525	2750	2750	3000	3000
Weight	kg	1650	1680	2190	2280	3200	3500	3500	3500
Outlet pipe diameter		DN300	DN300	DN400	DN400	DN500	DN500	DN600	DN600

Technical data sheet XLMCB30-XLMCB400 (40kPa)

Model		XLMCB 30	XLMCB 40	XLMCB 50	XLMCB 60	XLMCB 75	XLMCB 100	XLMCB 125	XLMCB 150	XLMCB 200	XLMCB 250	XLMCB 300	XLMCB 400
Power	kW	22	30	37	45	55	75	90	110	150	185	220	300
Pressure	kPa	Air flow(m³/min): 1atm, 20°C, Humidity 65%											
	40	28	38	48	55	73	98	120	145	190	245	285	380
Size (mm)	W	900	900	900	1050	1050	1050	1900	1900	2350	2350	3300	3300
	L	1950	1950	1950	2150	2150	2150	1500	1500	1800	1800	1900	1900
	H	1760	1760	1760	1970	1970	1970	2150	2150	2150	2150	2700	2700
Weight	kg	710	72	730	1070	1070	1070	1100	1100	1500	1500	2900	3200
Outlet pipe diameter		DN200	DN200	DN200	DN300	DN300	DN300	DN300	DN400	DN400	DN400	DN500	DN600

WHOLE STRUCTURE

WHOLE STRUCTURE

MAGNETIC LEVITATION CENTRIFUGAL BLOWER

The whole machine is highly integrated-1.5bar

Small size, light weight, special structure design, easy installation, portable disassembly and assembly.

PLC control system

- Adopt international brand PLC. Real-time monitor the system operation data and trajectory;
- Multiple protection and early warning functions.



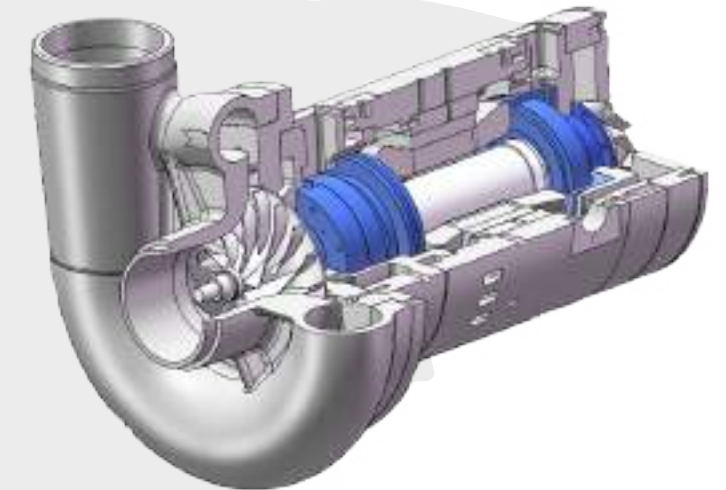
Precise Temperature Control System

-Achieve precise adjustment of exhaust temperature within 80~150°C via the intelligent temperature control system.



Permanent magnet high speed engine

- The PMSM permanent magnet synchronous motor is optimized for high speed rotation. The efficiency can reach more than 97%. The inverter can be used for precise speed control;
- Precision machined ternary flow impeller;
- Five degrees of freedom magnetic bearing;
- Reliable sensor technology ensures the stable operation of the whole blower's magnetic suspension bearing system. Induced current or vortex current. Low noise and high resolution design. integrated protection shield external magnetic fields.
- Liquid cooling/air cooling mode.



Magnetic bearing controller

- Full digital controller;
- Superior damping function;
- Multifunctional monitoring capability;
- Efficient service interface.



Internal Circulation Cooling System

-Adopting a closed-loop cooling system to specifically cool core heat-generating components including motors and bearings, it improves heat dissipation efficiency by over 30% and prevents equipment failures caused by local overheating.



Water Pump+ Circulation Pipeline

COMPREHENSIVE ADVANTAGES

Energy efficient

- 30% energy saving compared with traditional Roots blower

Intelligent temp control Dual heat dissipation

-Precise exhaust temperature control + internal circulation cooling, temperature range: 80~150°C, cooling efficiency of core components increased by over 30%

Low maintenance cost

-Semi-permanent design under 20 years, no iterative troubles
-100% oil-free air-floating bearing system to avoid secondary pollution, no need for regular maintenance and replacement of bearings

Easy to install

- The whole machine is highly integrated, small in size and light in weight
- No foundation or anchor bolts required

Magnetic Levitation Centrifugal Blower

TURBO BLOWER

- Power: 55-110kW
- Pressure: 100-150kPa



Low noise
no vibration



Energy saving and
environmental
protection



Intelligent
remote control



Convenient disassembly
and assembly



PARAMETER SELECTION

Technical ParametersXLMCB75-XLMCB150 (150kPa)

Model		XLMCB 75	XLMCB 100	XLMCB 125	XLMCB 150
Power	kW	55	75	90	110
Pressure boost	kPa	Flow (m³/min) ; latm, 20°C, Humidity 65%			
150		24	33	41	48
Dimensions (mm)	W	2660	2660	2810	2810
	L	1430	1430	1500	1500
	H	1850	1850	2100	2100
Weight	Kg	1070	1100	1580	1630
Pipe Diameter		DN125	DN125	DN150	DN150

WHOLE STRUCTURE

AIR SUSPENSION CENTRIFUGAL BLOWER

The whole machine is highly integrated

Small size, light weight, special structure design, easy installation, portable disassembly and assembly.

PLC electronic control system

- Adopt international brand PLC, real-time monitoring system operation data and trajectory, multiple protection and early warning functions;
- Internet of things database management to set up a background service platform, and modular management of equipment energy efficiency.

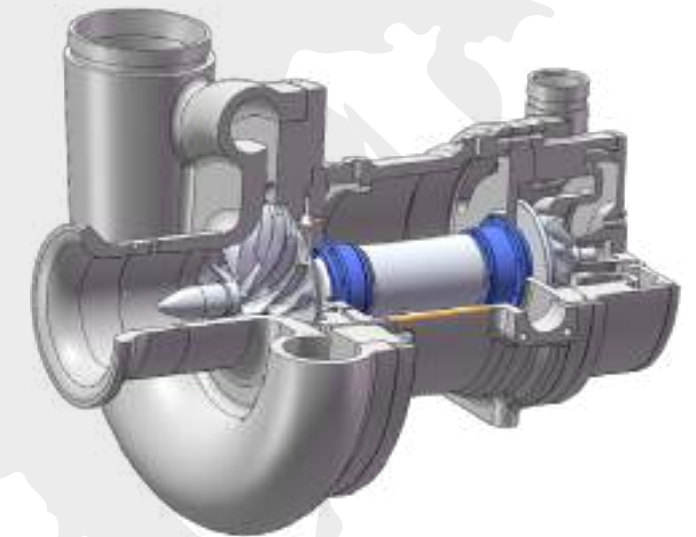


High efficiency inverter

- Adopt well-known brand inverter, high stability and reliability;
- Provide miniaturization algorithm for high-speed rotation; Adjust the fan air volume through the frequency converter, the adjustable range is 450/o-lQQOfc
- Equipped with a backup capacitor inside, which can quickly and safely make the equipment slow down and stop in the event of a power failure.

Permanent magnet high-speed host

- The optimized design of PMSM permanent magnet synchronous motor rotates at high speed, the efficiency can reach more than 96%, and accurate speed control can be carried out through the frequency converter;
- Precision machining ternary flow impeller;
- Non-contact air suspension bearing;
- Two-stage air-cooled self-cooling method.



Intelligent operation panel

- Real-time monitoring of equipment operation on the touch screen;
- Intelligent remote control;
- With anti-surge protection function, it provides a variety of working modes;
- Automatic fault alarm, it is easy to analyze the cause of the fault.



COMPREHENSIVE ADVANTAGES

Energy efficient

- 30% energy saving compared with traditional Roots blower

Efficient Air Energy Management

- PLC control system + touch screen, real-time monitoring system operation
- Standard Internet of Things, component background service platform, control the operation anytime, anywhere

Low maintenance cost

- Semi-permanent design under 20 years, no iterative troubles
- 100% oil-free air-floating bearing system to avoid secondary pollution, no need for regular maintenance and replacement of bearings

Easy to install

- The whole machine is highly integrated, small in size and light in weight
- No foundation or anchor bolts required



Air Suspension Centrifugal Blower

TURBO BLOWER

- Power:15-375kW
- Pressure:40-120kPa



Low noise
no vibration



Energy saving and
environmental
protection



Intelligent
remote control



Convenient disassembly
and assembly

PARAMETER SELECTION

Technical data sheet XLCB20-XLCB400(60/80/100kPa)

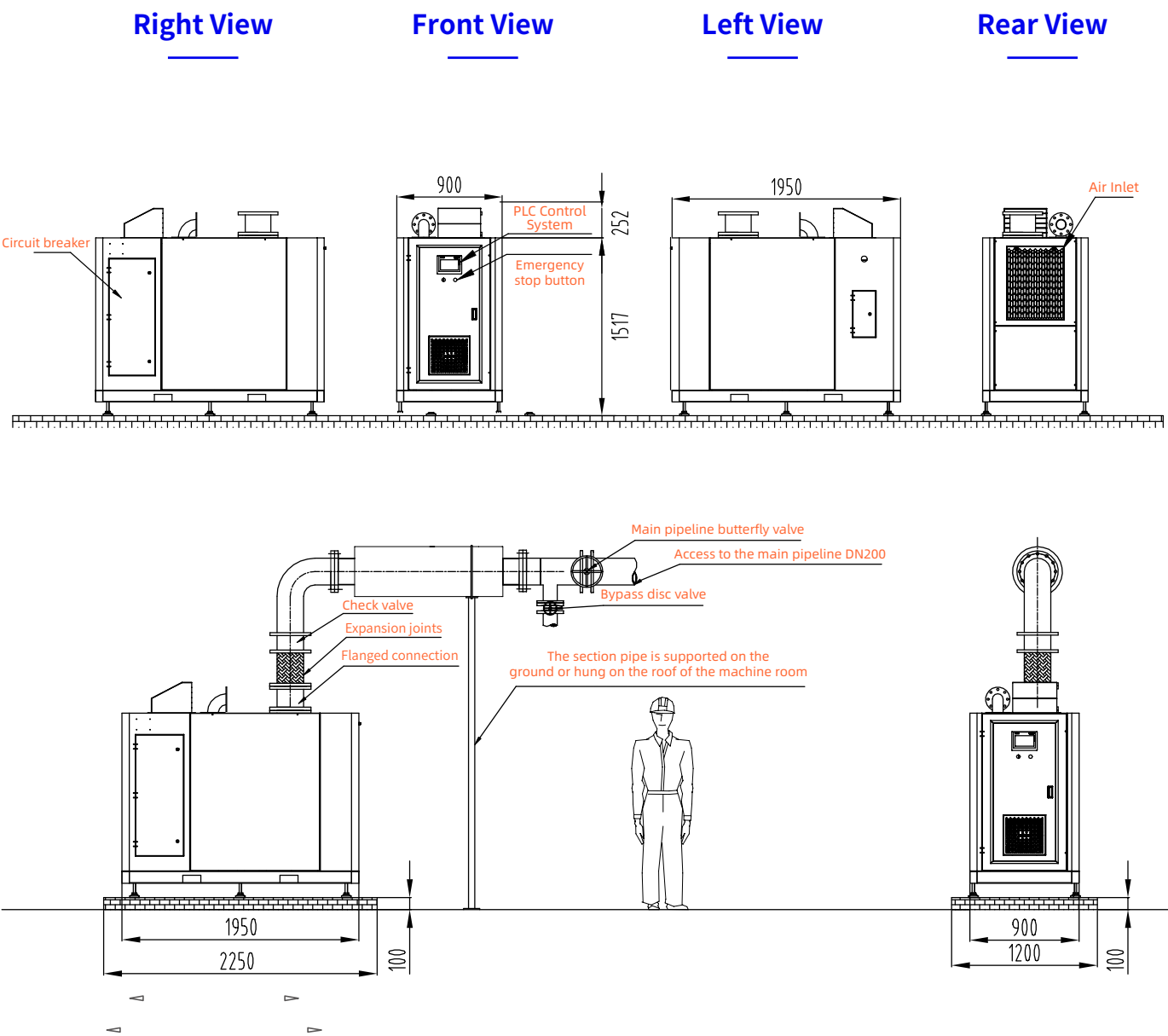
Model		XLCB 20	XLCB 30	XLCB 40	XLCB 50	XLCB 60	XLCB 75	XLCB 100	XLCB 125	XLCB 150	XLCB 200	XLCB 250	XLCB 300	XLCB 400	XLCB 500
Motor power	kW	15	22	30	37	45	55	75	90	110	150	185	220	300	375
Compression level		Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage
Exhaust pressure	kPa	Flow rate(m³/min)													
60		13	20	27	34	42	51	69	82	104	140	158	208	269	315
80		10	17	23	28	34	42	55	70	83	108	133	162	214	265
100		—	—	—	22	23	34	45	53	64	86	104	132	170	205
Cooling method		Air cooling													
Driving mode		Integrated direct drive													
LxWxH (mm)	L	1700	1700	1700	1700	1830	1830	1830	1830	2000	2000	2000	2400	2400	2400
	W	900	900	900	900	900	900	900	900	1050	1050	1050	1900	1900	1900
	H	1730	1730	1730	1730	1760	1760	1760	1760	1970	1970	1970	2670	2670	2670
N.W	kg	530	540	550	550	600	620	650	660	1150	1150	1350	2500	2590	2700
Outlet pipe diameter		DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200	DN300	DN300	DN300	DN450	DN450	DN450

PARAMETER SELECTION

Technical data sheet XLCB20-XLCB500(40kPa)

Model		XLCB 20	XLCB 30	XLCB 40	XLCB 50	XLCB 60	XLCB 75	XLCB 100	XLCB 125	XLCB 150	XLCB 200	XLCB 250	XLCB 300	XLCB 400	XLCB 500
Motor power	kw	15	22	30	37	45	55	75	90	110	150	185	220	300	375
Compression level		Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage	Single stage
Exhaust pressure	kPa	Flow rate(m³/min)													
40		20	30	40	50	60	75	100	125	150	200	250	295	395	498
Cooling method		Air cooling													
Driving mode		Integrated direct drive													
LxWxH (mm)	L	1830	1830	1830	1830	2000	2000	2000	2000	3000	3000	3000	2400	2400	2400
	W	900	900	900	900	1050	1050	1050	1050	1500	1500	1500	1900	1900	1900
	H	1760	1760	1760	1760	1970	1970	1970	1970	2525	2525	2525	2670	2670	2670
N.W	kg	600	620	650	660	1150	1200	1250	1300	1800	1850	1900	2500	2590	2700
Outlet pipe diameter		DN200	DN200	DN200	DN200	DN300	DN300	DN300	DN300	DN400	DN400	DN400	DN450	DN450	DN450

INSTALLATION DIAGRAM



The standard configuration

- Centrifugal blower host
- Chassis (considering the sound insulation function)
- Inverter - Inverter
- Local control system
- Vent valve

Select configuration

- Temperature and Pressure Sensors
- Inlet Filters
- Outlet check valve
- Outlet elastic joint
- Overhaul manual butterfly valve

- Outlet muffler
- Vent muffler

COMPREHENSIVE ADVANTAGES

Energy efficient

- 30% energy saving compared with traditional Roots blower

Efficient Air Energy Management

- PLC control system + touch screen, real-time monitoring system operation
- Standard Internet of Things, component background service platform, control the operation anytime, anywhere

Low maintenance cost

- Semi-permanent design under 20 years, no iterative troubles
- 100% oil-free air-floating bearing system to avoid secondary pollution, no need for regular maintenance and replacement of bearings

Easy to install

- The whole machine is highly integrated, small in size and light in weight
- No foundation or anchor bolts required

Air Suspension Centrifugal Blower

MINI VERSION

- Power:7.5-37kW
- Pressure:40-100kPa



Low noise
no vibration



Energy saving and
environmental
protection



Intelligent
remote control



Convenient disassembly
and assembly



PARAMETER SELECTION

Model		XLCB10-M	XLCB20-M	XLCB30-M	XLCB40-M	XLCB50-M
Motor power	kW	7.5	15	22	30	37
Compression Stage		Single-stage	Single-stage	Single-stage	Single-stage	Single-stage
Exhaust pressure	kPa	Flow rate(m³/min)				
40		8.5	15	23	30	40
60		6.5	13	20	27	34
80		—	10	13	23	28
100		—	—	—	17	22
Cooling Method		Air-cooled				
Drive Type		Direct Drive				
LxWxH (mm)	L	1340	1340	1450	1450	1450
	W	750	750	760	760	760
	H	1140	1140	1200	1200	1200
N.W	kg	280	300	350	380	400
Outlet pipe diameter		DN65	DN65	DN100	DN100	DN100

WHOLE STRUCTURE

WHOLE STRUCTURE

PM VARIABLE-FREQUENCY CENTRIFUGAL BLOWER

Highly integrated/Convenient disassembly

Small size, light weight, special structure design, quick disassembly and installation of the whole machine, convenient installation.

PLC electric control system

- Adopt international brand PLC, real-time monitoring system operation data and track, multiple protection and early warning functions;
- Internet of Things database management, establishment of background service platform, and equipment energy efficiency modular management.

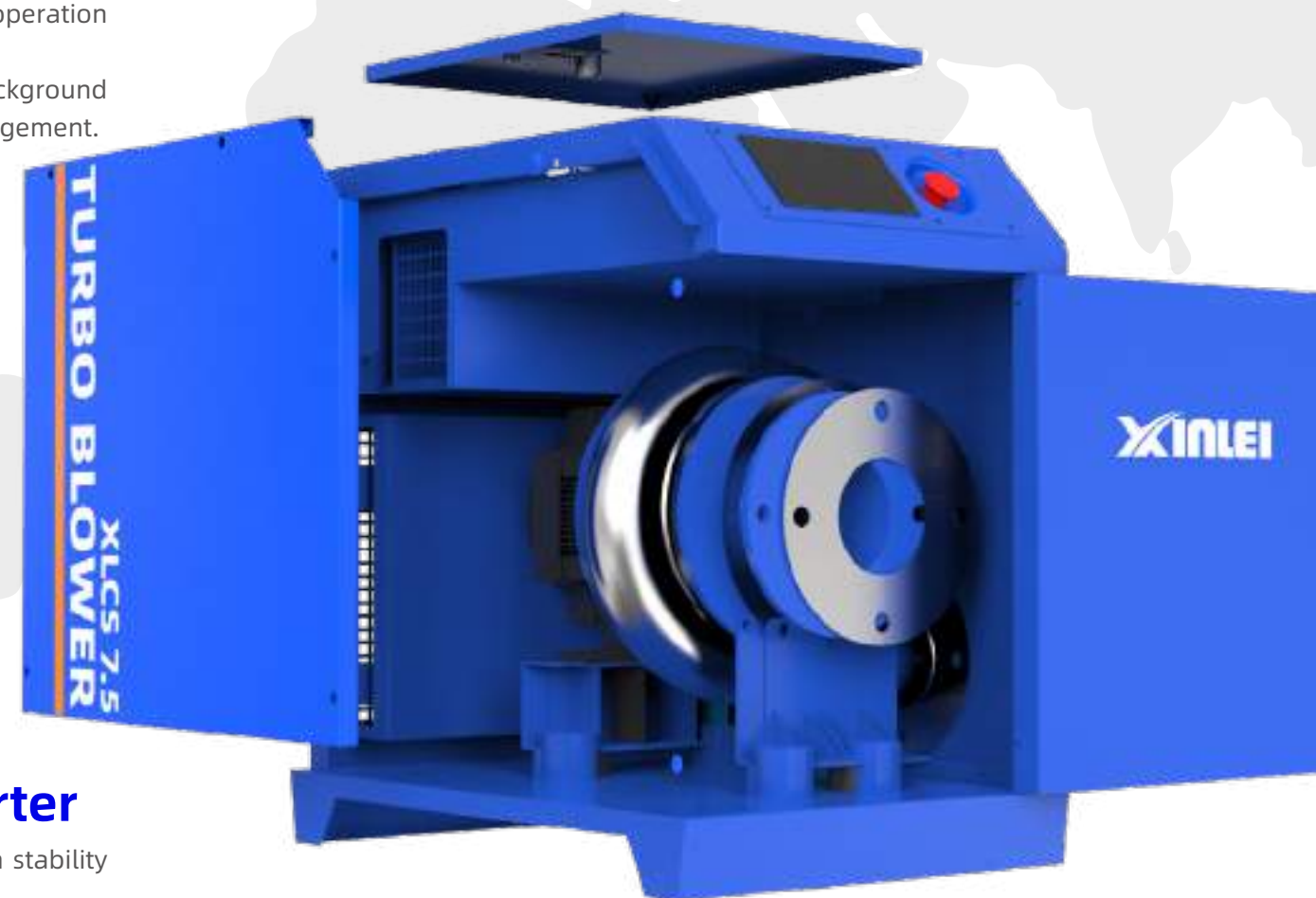
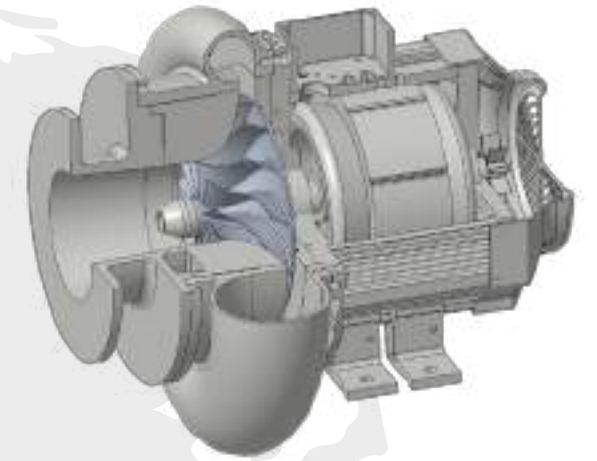


High efficiency frequency converter

- The frequency converter of famous brand is adopted, with high stability and reliability;
- Provide a minimization algorithm for high-speed rotation;
- High speed rotation function of saving energy by adjusting frequency;
- Built in DC reactor, which can suppress power harmonic, precise operation and soft start.

Permanent magnet high-speed host

- PMSM permanent magnet synchronous motor is optimized for high-speed rotation, and its efficiency can reach more than 96%. Accurate speed control can be carried out through frequency converter;
- Precision machining three-dimensional flow impeller.



Intelligent operation panel

Intelligent operation panel

- Touch screen screen real-time monitoring equipment operation;
- Intelligent remote control;
- Automatic fault alarm, easy to analyze the cause of fault.



COMPREHENSIVE ADVANTAGES

High efficiency and energy saving

-Permanent magnet synchronous high-speed motor+efficient, three dimensional flow impeller
-40% less energy than traditional fans (vortex, roots, etc.).

Convenient disassembly

-Special structure design is adopted for quick disassembly and installation of the whole machine,
-No mechanical maintenance required for normal operation.

Stable and reliable

-Continuous and stable air flow, no pressure attenuation during long operation,
-FEA analysis and modal analysis of the whole machine to ensure reliable operation of the product,
-It can be started and stopped,frequently and has a wide range of variable working conditions.

Intelligent control

-PLC+remote data monitoring can be used for remote debugging and adjustment of equipment operating conditions

PM Variable-frequency Centrifugal Blower

TURBO BLOWER

- Power:4-55kW
- Pressure:10-35kPa



Energy saving



Low noise no vibration



Wide operating range



Remote control



PARAMETER SELECTION

Technical Parameters (10~25kPa)

Model	XLCS4	XLCS5.5	XLCS7.5	XLCS11	XLCS15	XLCS18.5	XLCS22	XLCS30	XLCS37	XLCS45	XLCS55
Power	4	5.5	7.5	11	15	18.5	22	30	37	45	55
Pressure	Flow (m ³ / Min): 1 atm, 20 °C humidity 65%										
10	13.2	15.6	21.3	36.1	47.2	51	55.3	78.4	96.8	118	143.9
15	11.8	14.9	20.9	30.5	41.6	45.8	52.5	74.6	92.1	112	137
20	10.1	13.3	18.1	25.8	38.3	43.3	49.1	70.1	86.6	105	128.7
25	6.8	10.7	13.8	20.9	28.5	35.1	41.7	57.1	70.3	88	104.5
L (mm)	570	650	650	730	730	730	730	730	865	865	1020
W (mm)	430	430	430	510	510	510	510	560	640	720	1180
H (mm)	630	650	650	750	750	750	750	750	955	1035	1150
WEIGHT	90	90	136	160	160	180	180	260	260	270	320
OUTLET SIZE	DN65	DN65	DN65	DN100	DN100	DN125	DN125	DN200	DN200	DN200	DN250

Technical Parameters (30~35kPa)

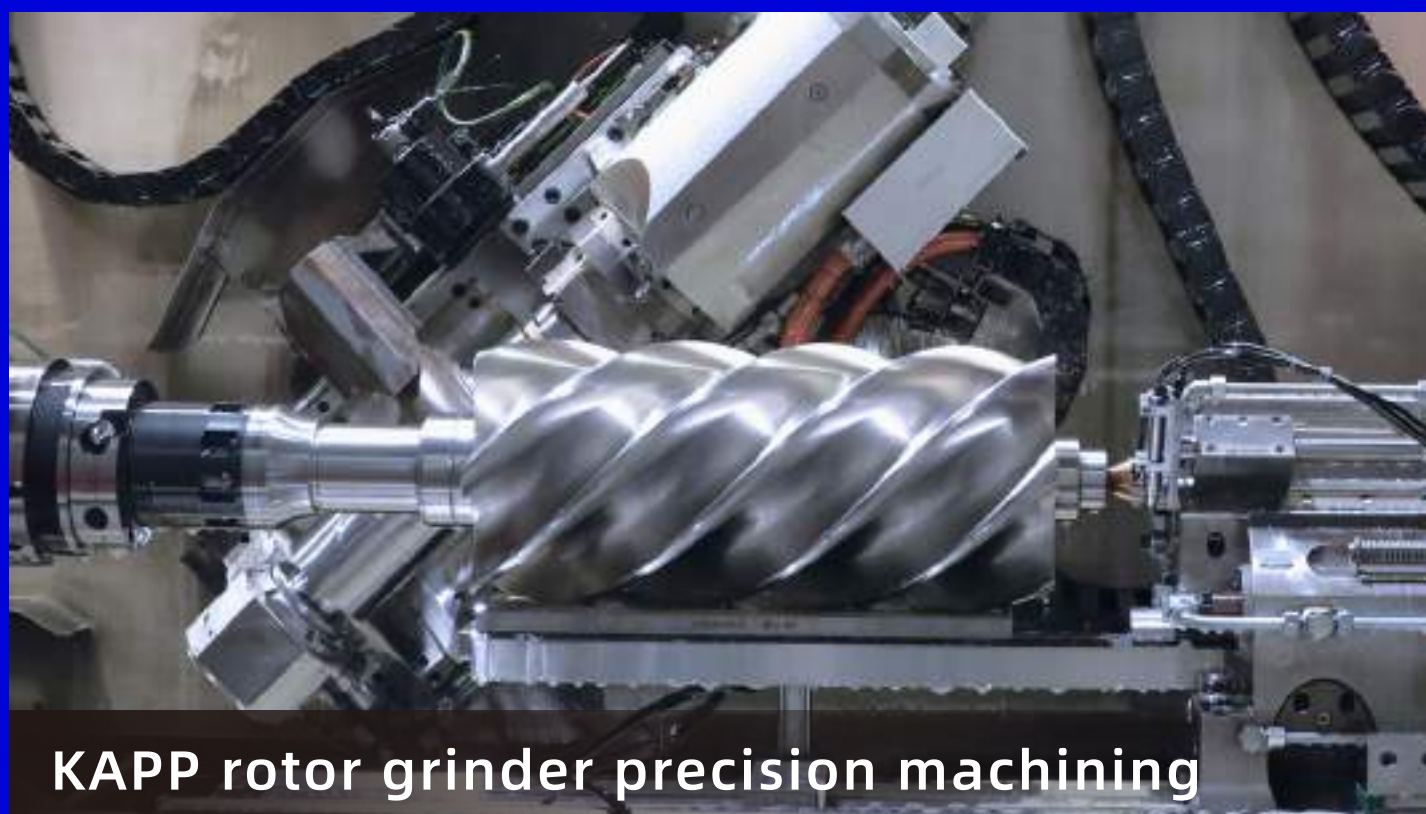
型号	XLCS4	XLCS5.5	XLCS7.5	XLCS11	XLCS15	XLCS18.5	XLCS22	XLCS30	XLCS37	XLCS45	XLCS55
Power	4	5.5	7.5	11	15	18.5	22	30	37	45	55
Pressure	Flow (m ³ / Min): 1 atm, 20 °C humidity 65%										
30	6.2	8.7	11.9	17.5	23.9	29.5	35	48	59.2	72	88
35	5.2	7.1	10	14.7	21.3	26.2	30.6	40	49.3	58	73.3
L (mm)	570	650	650	730	730	730	730	730	865	865	1020
W (mm)	430	430	430	510	510	510	510	560	640	720	1180
H (mm)	630	650	650	750	750	750	750	750	955	1035	1150
WEIGHT	90	90	136	160	160	180	180	260	260	270	320
OUTLET SIZE	DN65	DN65	DN65	DN100	DN100	DN125	DN125	DN200	DN200	DN200	DN250

The core components are 85% patented High precision integrated coordination



4: 6 Rotary screw rotor profile

Through in-depth analysis of energy saving demand and continuous optimization of product structure, the technical team of Xinlei continuously upgraded the rotor profile with years of technical accumulation. The profile adopts a 4:6 rotating screw rotor, which makes the speed of the male rotor 50% faster than that of the female rotor. The transmission leakage is smaller and the efficiency is higher.



KAPP rotor grinder precision machining

Oil free twin-screw host

The oil-free twin-screw host provides **oil-free and dust-free** pure compressed air. Optimized profile design, more efficient. Food grade PTFE (polytetraethylene) coating can reduce air loss and improve efficiency. The air is compressed internally, **saving energy up to 30%.**



High efficiency permanent magnet motor

The rotor has no slip, no electric excitation, no fundamental wave iron and copper loss and less heat generation, reducing the loss of stator current and stator resistance. Its efficiency is **5% - 8%** higher than that of asynchronous motor with the same capacity.



Nodular cast iron rotor

High strength, high axle load capacity, direct coupling and belt drive. The high-quality Teflon coating technology on the rotor surface makes the rotor gap smaller, improves the volumetric efficiency, protects the rotor, and has a **longer service life.**



WHOLE STRUCTURE

WHOLE STRUCTURE

OIL FREE SCREW BLOWER

Highly integrated/portable

Small size, light weight, special structure design, quick disassembly and installation of the whole machine, convenient installation.

Special silencer

- The noise is as low as 73-85dB (A);
- Precision filter is adopted for intake air, with accuracy up to 15UM and pressure loss $\leq 500\text{PA}$.



High efficiency frequency converter

- The inverter of well-known brand is adopted, with high stability and reliability;
- Back capacitance, protection equipment;
- Soft start, precise operation, high safety performance.

Efficient host

- Oil free twin-screw host, the compressed air is oil-free;
- 4: 6 Optimized profile design of rotating screw rotor, more efficient;
- Unique split cylinder design;
- Advanced coating, corrosion resistance and long service life;
- The air is compressed internally, saving energy up to 30%.



Oil system

- Advanced oil system design integrates oil pump, oil cooler and filter;
- Low oil temperature, long service life of bearings and gears.



Intelligent operation panel

- Touch screen monitoring the real-time equipment operation;
- Intelligent remote control;
- Automatic fault alarm can analyze the cause of fault.



COMPREHENSIVE ADVANTAGES

Energy-saving, stable and reliable

- Compared with traditional Roots blower, it can save energy by 15-30%
- Strong adaptability to working conditions, no surge, and flow hardly changes with pressure
- Low pressure pulse, stable exhaust. Pressure rise up to 150Kpa

Box type integrated design

- No need for embedded foundation, simple installation
- Pipeline sealing design, zero leakage of medium
- Forced circulating lubrication cooling system, more reliable

Clean, oil-free and lower noise

- Spiral seal+carbon ring seal, realizing zero leakage of medium and ensuring 100% oil-free air
- The aerodynamic noise of the spiral rotor is small. Stable gas output, noise ≤ 80dB

Simple operation and intelligent control

- Internet of Things remote control, remote debugging and adjustment of equipment operating conditions

Oil free screw blower

- Power: 5.5-185kW
- Pressure: 0.3-1.5bar

Low volume working condition, performance ceiling

Built for low voltage applications



TECHNICAL PARAMETER

Host Model	Speed (rpm)	Exhaust pressure (KPa)	30	40	50	60	70	80	90
XLG90V	3000	Air flow (m³/min)	3.6	3.4	3.2	3.0	2.8	2.7	2.5
		Motor power (kW)	5.5	5.5	5.5	5.5	7.5	7.5	7.5
	3500	Air flow (m³/min)	4.4	4.2	4.0	3.9	3.8	3.6	3.4
		Motor power (kW)	5.5	5.5	7.5	7.5	7.5	11.0	11.0
	4000	Air flow (m³/min)	5.3	5.1	5.0	4.8	4.6	4.5	4.3
		Motor power (kW)	5.5	7.5	7.5	7.5	11.0	11.0	11.0
	4500	Air flow (m³/min)	6.2	6.0	5.8	5.7	5.6	5.4	5.3
		Motor power (kW)	5.5	7.5	7.5	11.0	11.0	11.0	11.0
	5000	Air flow (m³/min)	7.1	7.0	6.8	6.6	6.4	6.3	6.1
		Motor power (kW)	7.5	7.5	11.0	11.0	11.0	15.0	15.0
	5500	Air flow (m³/min)	8.3	7.8	7.6	7.5	7.3	7.2	7.0
		Motor power (kW)	7.5	11.0	11.0	11.0	15.0	15.0	15.0
	6000	Air flow (m³/min)	8.9	8.7	8.6	8.4	8.3	8.1	8.0
		Motor power (kW)	11.0	11.0	11.0	15.0	15.0	15.0	15.0
	6500	Air flow (m³/min)	9.8	9.6	9.4	9.2	9.1	9.0	8.8
		Motor power (kW)	11.0	11.0	15.0	15.0	15.0	15.0	18.5

Host Model	Speed (rpm)	Exhaust pressure (KPa)	90	100	110	120	130	140	150
XLG90VFL	3000	Air flow (m³/min)	2.6	2.5	2.4	2.3	2.2	2.1	2.0
		Motor power (kW)	7.5	7.5	11	11	11	11	11
	3500	Air flow (m³/min)	3.5	3.4	3.3	3.2	3.1	3.0	2.9
		Motor power (kW)	11.0	11.0	11.0	11.0	11.0	15.0	15.0
	4000	Air flow (m³/min)	4.4	4.3	4.2	4.1	4.0	3.9	3.8
		Motor power (kW)	11.0	11.0	11.0	15.0	15.0	15.0	15.0
	4500	Air flow (m³/min)	5.4	5.3	5.2	5.1	5.0	4.9	4.8
		Motor power (kW)	11.0	11.0	15.0	15.0	15.0	15.0	18.5
	5000	Air flow (m³/min)	6.2	6.1	6.0	5.9	5.8	5.7	5.6
		Motor power (kW)	11.0	15.0	15.0	15.0	15.0	18.5	18.5
	5500	Air flow (m³/min)	7.1	7.0	6.9	6.8	6.7	6.6	6.5
		Motor power (kW)	15.0	15.0	15.0	18.5	18.5	18.5	22.0
	6000	Air flow (m³/min)	8.0	7.9	7.8	7.7	7.6	7.5	7.4
		Motor power (kW)	15.0	15.0	18.5	18.5	22.0	22.0	22.0
	6500	Air flow (m³/min)	8.8	8.7	8.6	8.5	8.4	8.3	8.2
		Motor power (kW)	15.0	18.5	18.5	22.0	22.0	22.0	22.0

TECHNICAL PARAMETER

Host Model	Speed(rpm)	Exhaust pressure (kPa)	30	40	50	60	70	80	90
XLG124V	2000	Air flow (m³/min)	8.9	8.6	8.3	7.9	7.6	7.3	7.0
		Motor power (kW)	7.5	11.0	11.0	11.0	15.0	15.0	15.0
	2500	Air flow (m³/min)	11.8	11.4	11.2	10.6	10.5	10.2	10.1
		Motor power (kW)	11.0	11.0	15.0	15.0	15.0	18.5	18.5
	3000	Air flow (m³/min)	15.0	14.7	14.3	14.0	13.9	13.6	13.3
		Motor power (kW)	11.0	15.0	15.0	18.5	18.5	22.0	30.0
	3500	Air flow (m³/min)	17.9	17.8	17.5	17.2	16.9	16.8	16.5
		Motor power (kW)	15.0	15.0	18.5	22.0	22.0	30.0	30.0
	4000	Air flow (m³/min)	21.0	20.8	20.5	20.3	20.0	19.9	19.6
		Motor power (kW)	15.0	18.5	22.0	22.0	30.0	30.0	30.0
	4500	Air flow (m³/min)	24.1	23.8	23.5	23.2	23.0	22.8	22.6
		Motor power (kW)	18.5	22.0	30.0	30.0	30.0	37.0	37.0
	5000	Air flow (m³/min)	26.9	26.7	26.5	26.1	25.9	25.7	25.5
		Motor power (kW)	22.0	30.0	30.0	30.0	37.0	37.0	45.0
	5500	Air flow (m³/min)	29.7	29.5	29.3	29.2	28.9	28.6	28.3
		Motor power (kW)	30.0	30.0	30.0	37.0	37.0	45.0	45.0

Host Model	Speed(rpm)	Exhaust pressure (kPa)	90	100	110	120	130	140	150
XLG124VFL	2000	Air flow (m³/min)	6.9	6.7	6.5	6.3	6.1	5.9	5.7
		Motor power (kW)	15.0	18.5	18.5	22.0	22.0	22.0	30.0
	2500	Air flow (m³/min)	9.5	9.2	9.0	8.8	8.6	8.3	8.0
		Motor power (kW)	22.0	22.0	22.0	30.0	30.0	30.0	30.0
	3000	Air flow (m³/min)	12.6	12.4	12.2	12.0	11.8	11.5	11.2
		Motor power (kW)	30.0	30.0	30.0	30.0	30.0	37.0	37.0
	3500	Air flow (m³/min)	16.0	15.8	15.6	15.3	15.1	14.8	14.6
		Motor power (kW)	30.0	30.0	37.0	37.0	37.0	45.0	45.0
	4000	Air flow (m³/min)	19.0	18.8	18.6	18.4	18.2	18.0	17.8
		Motor power (kW)	37.0	37.0	37.0	45.0	45.0	45.0	55.0
	4500	Air flow (m³/min)	22.1	21.9	21.7	21.5	21.3	21.1	20.8
		Motor power (kW)	37.0	45.0	45.0	45.0	55.0	55.0	55.0
	5000	Air flow (m³/min)	25.1	24.9	24.7	24.5	24.3	24.1	23.9
		Motor power (kW)	45.0	45.0	55.0	55.0	55.0	55.0	75.0
	5500	Air flow (m³/min)	28.0	27.8	27.6	27.4	27.2	27.0	26.8
		Motor power (kW)	45.0	55.0	55.0	55.0	75.0	75.0	75.0

TECHNICAL PARAMETER

Host Model	Speed (rpm)	Exhaust pressure (KPa)	30	40	50	60	70	80	90
XLG145V	2000	Air flow (m³/min)	13.2	12.7	12.3	12.0	11.7	11.4	11.1
		Motor power (kW)	11	15	15	18.5	22	22	30
	2500	Air flow (m³/min)	17.6	17.3	17.0	16.7	16.3	16.1	15.8
		Motor power (kW)	15	18.5	22	30	30	30	30
	3000	Air flow (m³/min)	22.3	22.0	21.8	21.4	21.1	20.8	20.6
		Motor power (kW)	18.5	22	30	30	30	37	37
	3200	Air flow (m³/min)	24.3	24.0	23.7	23.4	23.2	22.9	22.6
		Motor power (kW)	22	30	30	30	37	37	45
	3500	Air flow (m³/min)	27.0	26.7	26.4	26.1	26.0	25.7	25.4
		Motor power (kW)	22	30	30	37	37	45	45
	3800	Air flow (m³/min)	29.7	29.4	29.0	28.8	28.6	28.3	28.1
		Motor power (kW)	30	30	37	37	45	45	55
	4000	Air flow (m³/min)	31.5	31.2	30.9	30.7	30.4	30.1	30.0
		Motor power (kW)	30	37	37	45	45	55	55
	4500	Air flow (m³/min)	35.4	35.1	34.8	34.6	34.3	34.0	33.7
		Motor power (kW)	37	37	45	45	55	55	75

Host Model	Speed(rpm)	Exhaust pressure (kPa)	100	110	120	130	140	150
XLG145VFL	2000	Air flow (m³/min)	10.8	10.6	10.3	10.0	9.8	9.5
		Motor power (kW)	30	30	37	37	37	45
	2500	Air flow (m³/min)	16.1	15.9	15.6	15.3	15.2	15.0
		Motor power (kW)	37	37	45	45	45	55
	3000	Air flow (m³/min)	21.0	20.9	20.7	20.5	20.3	20.1
		Motor power (kW)	45	45	55	55	55	55
	3200	Air flow (m³/min)	23.0	22.8	22.7	22.6	22.3	22.1
		Motor power (kW)	45	55	55	55	75	75
	3500	Air flow (m³/min)	25.7	25.6	25.3	25.3	25.0	24.7
		Motor power (kW)	55	55	55	75	75	75
	3800	Air flow (m³/min)	28.3	28.2	28.0	27.9	27.5	27.2
		Motor power (kW)	55	75	75	75	75	75
	4000	Air flow (m³/min)	30.2	30.1	29.9	29.7	29.3	29.0
		Motor power (kW)	75	75	75	75	75	75
	4500	Air flow (m³/min)	34.8	34.6	34.4	34.3	34.0	33.7
		Motor power (kW)	75	75	75	75	90	90

TECHNICAL PARAMETER

Host Model	Speed(rpm)	Exhaust pressure (kPa)	30	40	50	60	70	80	90
XLG165V	2000	Air flow (m³/min)	20.6	20.3	20.0	19.7	19.4	18.9	18.5
		Motor power (kW)	18.5	22	22	30	30	37	37
	2200	Air flow (m³/min)	23.8	23.5	23.2	22.8	22.4	22.0	21.5
		Motor power (kW)	18.5	22	30	30	30	37	37
	2500	Air flow (m³/min)	27.9	27.6	27.3	26.9	26.4	25.9	25.5
		Motor power (kW)	22	30	30	37	37	37	45
	2800	Air flow (m³/min)	32.3	32.0	31.7	31.3	30.8	30.3	29.8
		Motor power (kW)	30	30	37	37	45	45	55
	3000	Air flow (m³/min)	34.6	34.3	33.9	33.5	33.0	32.5	32.0
		Motor power (kW)	30	37	37	45	45	55	55
	3200	Air flow (m³/min)	37.4	37.1	36.8	36.5	36.0	35.6	35.1
		Motor power (kW)	30	37	45	45	55	55	55
	3500	Air flow (m³/min)	41.4	41.1	40.8	40.4	40.0	39.4	38.9
		Motor power (kW)	37	37	45	55	55	55	75
	4000	Air flow (m³/min)	47.5	47.2	46.9	46.6	46.0	45.6	45.1
		Motor power (kW)	45	45	55	55	75	75	75
	4500	Air flow (m³/min)	54.0	53.7	53.4	53.0	52.5	52.0	51.4
		Motor power (kW)	45	55	75	75	75	75	90

Host Model	Speed(rpm)	Exhaust pressure (kPa)	90	100	110	120	130	140	150
XLG165VFL	2000	Air flow (m³/min)	18.1	17.8	17.4	17.0	16.7	16.4	16.2
		Motor power (kW)	37.0	45	45	45	55	55	55
	2200	Air flow (m³/min)	21.0	20.6	20.2	19.8	19.5	19.2	19.0
		Motor power (kW)	45.0	45	45	55	55	55	55
	2500	Air flow (m³/min)	24.8	24.3	24.0	23.5	23.2	22.8	22.7
		Motor power (kW)	45	55	55	55	55	75	75
	2800	Air flow (m³/min)	28.9	28.6	28.2	27.9	27.5	27.1	26.9
		Motor power (kW)	55	55	75	75	75	75	75
	3000	Air flow (m³/min)	31.3	31.1	30.8	30.5	30.0	29.8	29.5
		Motor power (kW)	55	75	75	75	75	75	90
	3200	Air flow (m³/min)	34.2	33.9	33.5	33.2	33.0	32.7	32.3
		Motor power (kW)	75	75	75	75	75	90	90
	3500	Air flow (m³/min)	38.3	38.1	37.7	37.3	37.0	36.6	36.2
		Motor power (kW)	75	75	75	75	90	90	90
	4000	Air flow (m³/min)	44.4	44.1	43.8	43.4	43.2	42.9	42.5
		Motor power (kW)	75	90	90	90	110	110	110
	4500	Air flow (m³/min)	50.6	50.3	50.1	49.8	49.4	49.2	48.8
		Motor power (kW)	90	90	110	110	110	110	132

TECHNICAL PARAMETER

Host Model	Speed(rpm)	Exhaust pressure (kPa)	30	40	50	60	70	80	90
XLG203	1800	Air flow (m³/min)	35.3	34.7	34.3	33.6	33.0	32.8	32.0
		Motor power (kW)	30	37	37	45	55	55	55
	2000	Air flow (m³/min)	40.0	39.2	38.3	37.9	37.5	37.0	36.4
		Motor power (kW)	37	37	45	55	55	75	75
	2200	Air flow (m³/min)	45.0	44.3	43.7	43.1	42.6	41.9	41.4
		Motor power (kW)	37	45	55	55	75	75	75
	2400	Air flow (m³/min)	49.5	48.9	48.4	47.8	47.2	47.6	46.9
		Motor power (kW)	45	55	55	75	75	75	90
	2600	Air flow (m³/min)	54.4	53.8	53.2	52.6	52.0	51.8	51.1
		Motor power (kW)	45	55	75	75	75	90	90
	2800	Air flow (m³/min)	59.2	58.6	58.0	57.4	56.7	56.1	55.4
		Motor power (kW)	55	55	75	75	90	90	90
	3000	Air flow (m³/min)	63.5	62.8	62.2	61.7	60.9	60.5	59.9
		Motor power (kW)	55	75	75	90	90	110	110
	3200	Air flow (m³/min)	67.7	67.0	66.3	65.8	65.0	64.7	64.3
		Motor power (kW)	55	75	75	90	90	110	110
	3400	Air flow (m³/min)	72.0	71.2	70.5	69.9	69.5	69.1	68.5
		Motor power (kW)	75	75	90	90	110	110	132
	3600	Air flow (m³/min)	76.2	75.4	74.6	74.0	73.9	73.3	72.7
		Motor power (kW)	75	75	90	110	110	110	132
	3800	Air flow (m³/min)	80.4	79.5	78.8	78.1	78.0	77.6	76.8
		Motor power (kW)	75	90	90	110	110	132	132

Host Model	Speed(rpm)	Exhaust pressure (kPa)	90	100	110	120	130	140	150
XLG203FL	1800	Air flow (m³/min)	32.7	32.3	31.9	31.4	31.0	30.6	30.2
		Motor power (kW)	75	75	75	75	75	90	90
	2000	Air flow (m³/min)	37.2	36.8	36.4	35.9	35.5	35.1	34.6
		Motor power (kW)	75	75	75	90	90	90	110
	2200	Air flow (m³/min)	41.9	41.6	41.1	40.7	40.3	39.8	39.4
		Motor power (kW)	75	75	90	90	90	110	110
	2400	Air flow (m³/min)	46.6	46.4	45.9	45.5	45.0	44.5	44.1
		Motor power (kW)	90	90	90	110	110	110	110
	2600	Air flow (m³/min)	51.6	51.1	50.7	50.3	49.8	49.3	48.8
		Motor power (kW)	90	90	110	110	110	132	132
	2800	Air flow (m³/min)	56.6	55.8	55.4	55.0	54.6	54.0	53.4
		Motor power (kW)	110	110	110	110	132	132	132
	3000	Air flow (m³/min)	60.6	60.1	59.5	58.9	58.5	58.1	57.7
		Motor power (kW)	110	110	132	132	132	132	160.0
	3200	Air flow (m³/min)	64.8	64.2	63.6	63.0	62.5	62.1	61.6
		Motor power (kW)	110	132	132	132	132	160	160
	3400	Air flow (m³/min)	68.9	68.4	67.7	67.0	66.6	66.1	65.6
		Motor power (kW)	132	132	132	160	160	160	185
	3600	Air flow (m³/min)	73.2	72.6	71.8	71.1	70.6	70.1	69.6
		Motor power (kW)	132	132	160	160	160	160	185
	3800	Air flow (m³/min)	77.4	76.7	75.9	75.2	74.7	74.2	73.6
		Motor power (kW)	132	160	160	160	160	185	185

PERFORMANCE COMPARISON

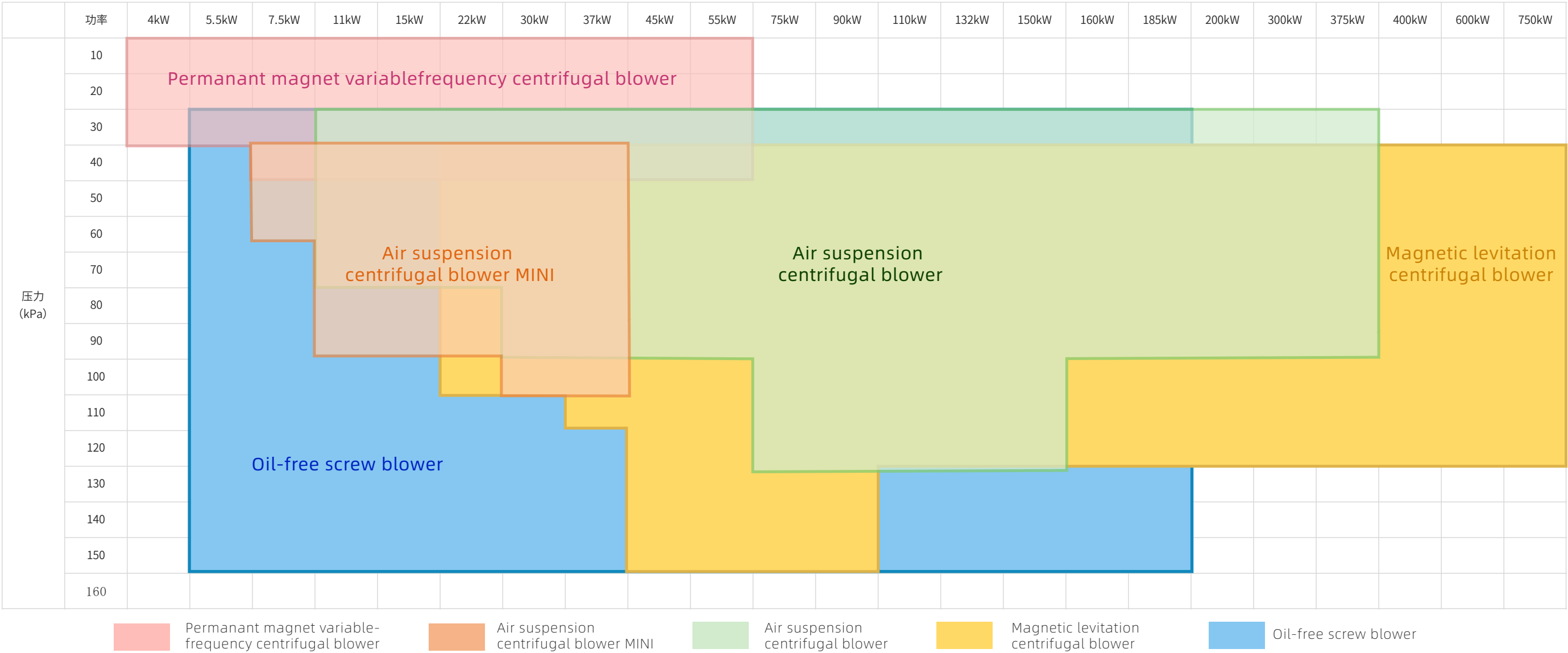
PERFORMANCE COMPARISON

- Compress mode
- Flow regulation range
- Surge
- Bearing type
- Bearing life
- The motor type
- Motor starter
- Noise(dB)
- Vibration
- Lubrication
- Speed
- Working condition adaptability
- Environmental requirements

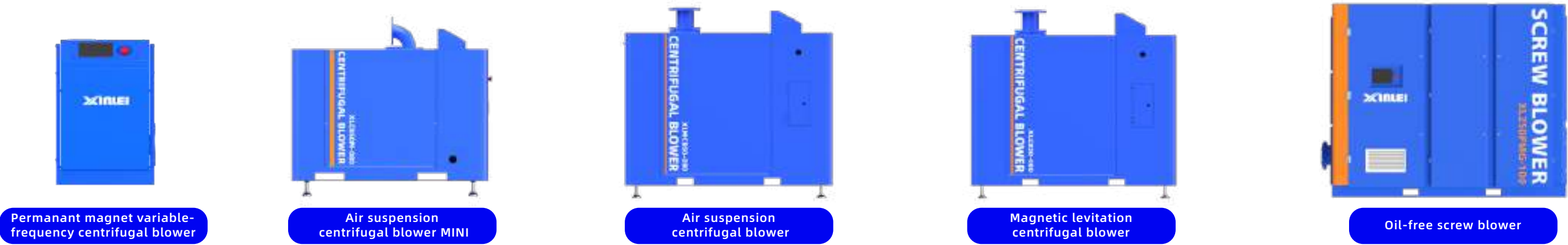
 Permanent magnet variable-frequency centrifugal blower centrifuge	 Air suspension centrifugal blower centrifuge	 Magnetic levitation centrifugal blower centrifuge	 oil-free screw blower Volumetric	 Roots blower Volumetric
45-100%	45-100%	45-100%	Variable frequency regulation	Unable to adjust
Yes	Yes	Yes	No	No
Ceramic ball bearing	Air bearing	Magnetic bearing	Antifriction bearing	Antifriction bearing
2 years	20 years	20 years	50000-100000 hours	1~2 years
High speed permanent-magnet synchronous motor	High speed permanent-magnet synchronous motor	High speed permanent-magnet synchronous motor	Permanent-magnet synchronous motor or induction motor	Induction motor
Variable frequency start	Variable frequency start	Variable frequency start	Variable frequency start	hard to start
70-80dB	70-80dB	70-80dB	≤80dB	>100dB
No	NO	No	Low	very badly
100% lubricant-free	100% lubricant-free	100% lubricant-free	Replace the grease or oil periodically	Replace the grease or oil periodically
≤30000rpm	20000-100000rpm	10000-50000rpm	≤3000rpm	≤3000rpm
Need more ideal and stable working conditions	Need more ideal and stable working conditions	Need more ideal and stable working conditions	For changing working conditions, the performance can remain stable	For changing working conditions, the performance can remain stable
High environmental requirements for dust, humidity, etc	High environmental requirements for dust, humidity, etc	High environmental requirements for dust, humidity, etc	In a harsh environment with higher dust and humidity, fault tolerance is higher and more reliable	In a harsh environment with higher dust and humidity, fault tolerance is higher and more reliable

MODEL SELECTION

MODEL SELECTION



Note: Magnetic levitation blower, permanent magnet frequency conversion centrifugal blower and screw blower are recommended for frequent start-stop conditions.



CEMENT INDUSTRY UNLOCK LOW-CARBON ENERGY- SAVING "XIN" GAMEPLAY

📍 Liaoyang, Liaoning



Project requirements

Air Suspension Centrifugal Blower

As a cement manufacturer of TOP 1 in northern China, in a case of Jidong Cement, the kiln head originally used a Roots blower to support combustion, and the "electric tiger" endlessly devoured energy consumption. With the introduction of the "carbon" policy, the export of energy-saving and green power sources has become a new situation in the industry.

Annual savings of **201,600 yuan** | Electricity saving rate is **31.82%**

Solution

In response to customer needs, the technical team specializes in customizing Xinlei air suspension blowers with low energy consumption and low carbon emission, and the energy saving rate exceeds 30%. Quickly deploy and install, save money while using, accelerate green transformation, and increase production with low carbon.

Solution advantage

1. **The hidden profit "black hole"** - the energy saving rate is 31.82%, which saves 252,000 kWh of electricity annually and saves **201,600 yuan** in electricity bills.
2. **Green Ambassador** - reduced carbon emissions by **251.24 tons**, saved 100.8 tons of standard coal, and planted 14,036 Haloxylon trees.
3. **Increase production and efficiency** - the efficiency of the motor exceeds **97%**, the efficiency of the whole machine exceeds **88%**.
4. **Stable and reliable** - Under the pressure of high temperature and high production capacity, it still maintains a stable and efficient range.
5. **Costs "manager"** - air bearing design, no wearing parts, no maintenance, **saving tens of thousands of maintenance costs per year**.
6. **Extremely fast installation** - The volume is only 2.5m³, and the weight is as low as 630kg. It is easy to install, saves labor and space resources.

CEMENT INDUSTRY ENERGY-SAVING RETROFIT INTEGRATED SOLUTION

📍 Taizhou, Zhejiang



Project requirements

Air Suspension Centrifugal Blower

A giant in the cement industry, the original 75kW power frequency Roots fan declined linearly due to its stability and efficiency, which seriously affected the production capacity. In addition, the high energy consumption of the machine and the reduction of economic benefits, an efficient and energy-saving air energy solution was urgently needed.

Annual savings of nearly **110,000 yuan** | energy saving rate is **33%**

Solution

The technical team went deep into the site, escorted the whole process, provided air energy solutions flexibly, and replaced the original machine with 55kW air float. The efficiency of the motor is over 96%, the efficiency is not attenuated in the life cycle of more than 20 years, and the energy saving rate is over 30%.

Solution advantage

1. **Energy saving is more than "100 million" point** - energy saving is as high as **33%**, and the annual electricity saving is nearly **110,000**.
2. **The efficiency is high** - the efficiency is stable at a high value, and there is zero attenuation in the 20-year life cycle.
3. **Intelligent operation and maintenance** - equipped with the Internet of Things, it can be controlled remotely and **reduce labor costs**.
4. **No worries about iteration** - efficient operation with a semi-permanent life cycle of more than 20 years.
5. **A wide range of working conditions** - constant pressure, adjustable air 45%-100%.
6. **Highly integrated** - integrated design of the whole machine, reducing pressure loss, occupying only 2.5m³, **saving installation space by more than 40%**.
7. **Saving money** - no consumables, no maintenance, no oil leakage, and saving nearly **30,000 yuan** annual maintenance cost.

SEWAGE INDUSTRY LIFE CYCLE SOLUTIONS

Tibetan Plateau



Project requirements

The water depth of a sewage treatment tank in Tibet is 5 meters, and the daily distance of the treatment personnel is 15,000 tons. Under the high pressure and strong work on the plateau, the defects of the original multi-stage centrifugal fan and asynchronous motor have become increasingly prominent: they have to be updated and iterated every 2 years, and air leakage is frequent. , In addition to increasing unnecessary maintenance costs, iterative machine replacement has seriously affected production efficiency.

Air Suspension Centrifugal Blower

Annual savings of **518,400 yuan** | electricity saving rate is **40.4%**

Solution

According to customer needs, a 220kW air suspension centrifugal blower was customized to replace the original 2 200kW multi-stage centrifugal blowers. Adopt cutting-edge 100% oil-free air suspension bearing technology, zero contact during operation, maintenance-free, and the efficiency of the whole machine is as high as 88%. The efficiency is continuously optimized , and it solves the pain points of customers.

Solution advantage

1. **Energy saving** - the energy saving rate is as high as **40.4%**, and the annual electricity bill is saved by **518,400**.
2. **Improve production efficiency** - the motor efficiency is as high as 96%, and the efficiency is not attenuated during the life cycle.
3. **Improve space utilization** - save more than 50% of space resources and reduce invalid construction and rectification fees.
4. **Reduce ineffective waste** - **no lubrication, no maintenance**, no need for spare parts and spare parts, reducing the cost of purchasing, in and out of storage, etc.
5. **Cost reduction and efficiency increase** - the whole machine is highly integrated design, with a high environmental fault tolerance rate.
6. **Time-saving and labor-saving** - digital and intelligent system, remote control can be achieved with one touch.
7. **Effectively solve the iterative problem** - air suspension bearing design, semi-permanent for more than 20 years.

SEWAGE INDUSTRY DIGITAL AND INTELLIGENT AIR ENERGY SOLUTIONS

Xingtai, Hebei



Project requirements

In the sewage treatment process, oxygen supply and aeration, water mixing, back washing and other links are inseparable from the blower. A customer in Hebei originally had 6 55KW Roots fans. Due to the high failure rate and long maintenance cycle, the production capacity was seriously affected, and the daily output was 25,000 tons. The new fan solution was urgently needed.

Air Suspension Centrifugal Blower

Annual savings of nearly **259,200 yuan** | Electricity saving rate is **30%**

Solution

The technical team went deep into the customer site and landed the whole process, and flexibly provided a complete set of air suspension centrifugal blowers. It is equipped with aviation aluminum ternary flow impeller, black technology air-floating bearing, high-speed permanent magnet motor, high-efficiency cooling system, etc., to achieve high-efficiency and stable operation of more than 96% in high-temperature corrosion and harsh environments.

Solution advantage

1. **Improve production efficiency** - no maintenance is required, stable and efficient operation, and no decline in efficiency during the life cycle.
2. **Energy saving and noise reduction** - The real energy saving is nearly 30%, and the annual power saving is **259,200**.
3. **Efficient and stable** - In the life cycle of more than 20 years, it will operate in the high-efficiency range.
4. **Reduce the failure rate** - air suspension design, non-contact during work, reduce the failure rate.
5. **Intelligent** - standard air energy operation and maintenance platform, remote control, early warning and equipment operation and maintenance data.
6. **Cost saving** - No consumables, no maintenance, no spare spare parts, reducing the cost of spare parts procurement planning, storage and delivery and other links.

FOOD INDUSTRY SEIZE THE COMMANDING HEIGHTS OF PRESSURE EFFICIENCY

📍 Linyi, Shandong



Project requirements

China's "food capital" - Linyi, Shandong, with an industrial value of nearly 200 billion, the corresponding demand for aeration of food sewage is huge. Under the pressure of high production capacity, in a case of Linyi Foods, the original Roots blower was insufficient aeration and low efficiency. , unable to support production demand. There is an urgent need for air energy solutions that can respond quickly.

Air Suspension Centrifugal Blower

Annual savings of **109,000 yuan** | Electricity saving rate of **42%**

Solution

In an emergency, the technical team quickly deployed, professionally customized Xinlei air suspension blower with strong pressure. With the support of core technologies such as high-speed permanent magnet motor, well-known frequency converter, and black technology ternary flow impeller, the source outputs high-efficiency and clean air energy.

Solution advantage

1. **Pressure tool** - the exhaust pressure can be as high as **120kPa** to meet the pressure demand.
2. **The commanding heights of efficiency** - The efficiency of the main engine is as high as 97%, the efficiency of the whole machine exceeds 88%, and the speed is precisely adjusted.
3. **Energy saving out of the circle** - The energy saving rate is **42%**, and the annual electricity cost is **109,000**.
4. **The flow rate adjustment range of the flow pool is wide**, and the air volume is 45%-100%, which can meet the needs of different working conditions.
5. **The Smart Master is equipped with the Internet of Things as standard**, and it can be controlled remotely, which improves efficiency and saves labor.

PRINTING AND DYEING INDUSTRY INCREASE PRODUCTION AND EFFICIENCY "XIN" POTENTIAL ENERGY

📍 Nanchong, Sichuan



Project requirements

An environmental protection industry in Nanchong, Sichuan, covering municipal wastewater, drilling wastewater, gas field wastewater, and other full-link wastewater projects. With the expansion of the industrial chain, the efficiency of the original three Roots fans has declined, and economic benefits have been suppressed. High-efficiency air power sources are urgently needed. In response to the demand for blasting and aeration under high production capacity.

Air Suspension Centrifugal Blower

Annual saving of **660,000 yuan** | Energy saving rate of nearly **30%**

Solution

The technical team conducted on-site investigation and flexibly customized 2 Xinlei air suspension blowers. Equipped with black technology air suspension bearings, it operates efficiently without vibration and requires no maintenance; it is linked with a high-performance cooling system to ensure stable and reliable operation during long-term high temperature operation in summer.

Solution advantage

1. **Strong environmental compatibility** - the whole machine is integrated, and the installation does not require a seamless connection between indoor and outdoor foundations.
2. **Cost "manager"** - air suspension bearing design, no maintenance, no wearing parts, no spare parts, reducing the cost of spare parts procurement, in and out of storage, etc.
3. **High efficiency and energy saving** - save nearly **660,000 yuan** a year.
4. **High-quality longevity** - more than 20 years of life cycle, no iteration troubles.
5. **The sound is sweet** - the noise is 80dB to protect the physical and mental health of employees.

TEXTILE INDUSTRY GREEN ENERGY SAVING TRANSFORMATION SOLUTION

📍 Leshan, Sichuan



Project requirements

Sewage treatment plants have attracted the attention of the environmental industry. Under the background of dual-control upgrade of energy consumption, a sewage treatment plant in Sichuan is facing the window period of green transformation stage. Five aeration Roots blowers occupy a large space resource. They are five "electric tigers" bringing the problems of endless money burning and no energy saving.

Magnetic Levitation Centrifugal Blower

Annual saving of **300,000 yuan** | Energy saving rate of **36.30%**

Solution

The project engineers provide flexible transformation plans through multi-dimensional investigation and analysis. One Xinlei magnetic levitation blower replaces five Roots blowers. With permanent magnet high speed main engine, the motor efficiency is more than 97%, and the whole blower efficiency is more than 87%. Compared with the traditional blower, it saves more than 30% energy. Increase efficiency and reduce costs at the same time. Accelerate the green transformation.

Solution advantage

1. **Invisible profit "Black hole"** - The energy saving exceeds 30%. The daily electricity saving is nearly RMB 1000. **The annual electricity saving is nearly RMB 300,000.** Therefore, the client won the group's "Golden Bull Award".
2. **Save thousands of maintenance costs** - 100% oil-free bearing system. **No need for regular maintenance.**
3. **No worries about iteration** - Magnetic levitation bearing series design. More than 20 years of semi-permanent design. Life cycle efficiency zero decay.
4. **Save manpower** - Multi-dimensional linkage of mobile phone and computer. **Remote control.**
5. **Low rectification cost** - The blower is highly integrated design. Seamless Indoor and outdoor iterative connection. Quick installation and deployment. No foundation required.
6. **Save more than 70% space resources** - Occupy only 8.6m³ space. The weight is as low as 2,300 kgs. **Noise≤80dB.**

CEMENT INDUSTRY AIR ENERGY SOLUTION

📍 Loudi, Hunan



Project requirements

The cement industry is one of the high energy consumption industries. The central government has upgraded its management and control. A leading cement enterprise actively responded to the national call for energy conservation, aiming to replace the original 14 high energy consumption Roots blowers.

Magnetic Levitation Centrifugal Blower

Annual saving of nearly **RMB 1 million** | Energy saving rate of **30%**

Solution

After investigation and analysis, the project engineer provided a contract energy management plan: 8 Xinlei magnetic levitation centrifugal blowers replace the original 14 Roots blowers. With the support of cutting-edge technologies such as permanent magnet high speed main engine and aviation aluminum ternary flow impeller, the motor efficiency exceeds 97% and the energy saving rate exceeds 30%. Accelerate green transformation while reducing costs and increasing efficiency.

Solution advantage

1. **Invisible profit "Black hole"** - The energy saving exceeds 30%. Annual electricity savings of **nearly RMB 1 million.**
2. **High efficiency and energy saving** - About **2.34 million KWH of electricity** is saved every year. 2,332 tons of carbon emissions are reduced. Which means 120,000 Haloxylon ammodendron trees are planted in the same amount.
3. **Save thousands of maintenance costs** - **100% oil-free** bearing system. Avoid secondary pollution. No maintenance. No wearing parts.
4. **Digital intelligence level improvement** - remote control. Save manpower.
5. **Low rectification cost** - The blower is highly integrated design. Seamless Indoor and outdoor iterative connection.
6. **Small body but big use**--save **more than 50%** space resources. Reduce unnecessary construction costs.

THERMAL POWER INDUSTRY REDEFINE “POWERFUL POWER SOURCE”

📍 Lanzhou, Gansu



Project requirements

A thermal power industry in Lanzhou, Gansu, contracted the entire area of thermal power. The original 3 blowers leaked oil frequently. The maintenance costed time and aeration efficiency was greatly reduced. The energy consumption class lost. The existing equipment can no longer meet the increasing demand.

Magnetic Levitation Centrifugal Blower

Solution

The technical team customized Xinlei magnetic levitation blower which can meet the working conditions and save 32% energy. With the support of block technology such as aviation aluminum ternary flow impeller, high speed permanent magnet motor, magnetic bearing, etc., the efficiency and energy consumption problems are solved. Save money while using.

Solution advantage

- 1. Stay in the center of energy saving** - The energy saving rate is **really up to 32%**. The blowers cost can be returned in a few months by electricity cost saving.
- 2. More than efficient** - The exhaust pressure is as high as 123 kpa, solving the pressure problem.
- 3. Small body but big use** - save **more than 50%** space resources. Reduce unnecessary construction costs.
- 4. Variable master** - The adjustable range of air volume is 45%~110%. It can be suitable for various working conditions.
- 5. Air energy “Stabilizer”** - high stable operation in more than **20 Years** life cycle.
- 6. A sharp tool for production cost optimization** - magnetic bearing design. Maintenance-free. No wearing parts. Zero loss. **Save tens of thousands of production costs.**
- 7. Digital and intelligent “Big Boss”** - intelligent operation and maintenance platform. **Remote control.** Blower warning. Maintenance prompts and other intimate services. Reduce unnecessary labor costs.

THERMAL POWER INDUSTRY A SOLUTION FOR NOISE REDUCTION AND EFFICIENCY IMPROVEMENT

📍 Zouping, Shandong



Project requirements

A thermal power enterprise in Shandong, supply the thermal power the the entire area. However, the power of the original Roots blower gradually dropped. The gas supply could not meet the existing working demand. In addition, the noise was too loud, which seriously affected the physical and mental health of workers. High efficiency and low noise air energy new equipment is urgently needed.

Magnetic Levitation Centrifugal Blower

Solution

The project team made a tailor-made solution-Replace the 450 KW blower with a Xinlei 300 KW magnetic levitation blower. With the support of core technologies such as high precision ternary flow impeller, high efficiency sensor, and high speed permanent magnet motor, etc., a solution integrating low noise, high efficiency and energy saving has been formed.

Solution advantage

- 1. Quiet working environment - Noises≤80dB.** Noise reduction over 30%. Creat a comfortable working environment.
- 2. Earn money while saving energy** - Energy saving by nearly 30% compared to traditional blowers. **Annual power saving of nearly 300,000.**
- 3. Money-saving assistant** - No wearing parts. Maintenance-free. No spare parts. Reduce inventory costs. Save money stealthily.
- 4. Super long life** - Cutting-edge magnetic bearing. Semi-permanent life of **more than 20 Years.**
- 5. Smart panel** - Internet of everything. Remote control. Multiple protection and early warning functions. Efficient and safe.
- 6. Efficient operation** - The motor efficiency exceeds 96%. The whole blower efficiency exceeds 87%. And the efficiency runs without attenuation in the life cycle.

SEWAGE INDUSTRY DIGITAL INTELLIGENT FULL SCENE SOLUTION

📍 Lanzhou, Gansu



Project requirements

A sewage treatment plant in Honggu District, Gansu, contracted the entire sewage treatment in Haishiwan. The daily treatment scale of up to 30,000 m³ per day. As the service time of original blower increases, the aeration efficiency decreases and the energy consumption increases gradually. The customer is eager to solve the demand of high energy consumption and week efficiency status.

Magnetic Levitation Centrifugal Blower

Solution

Through site investigation and analysis, the Xinlei magnetic levitation blower which can meet the working conditions and save 30%+ energy is customized. Equipped with aviation aluminum ternary flow impeller, magnetic bearing and other black technologies, it can solve air flow and pressure problem easily. At the same time, the efficiency has zero attenuation in the life cycle. The efficiency and energy saving can be achieved with both hands.

Solution advantage

1. **More than efficient** - The exhaust pressure is as high as 120 kpa, solving the pressure problem.
2. **Invisible profit "Black hole"** - The energy saving reaches 30%. **Annual electricity savings of nearly RMB 200,000.**
3. **Small body but big use** - Occupy only 3.14m³. Wight as low as 700 kgs. Save more than 50% space resources. Reduce unnecessary construction costs.
4. **Sweet sound** - Noise reduction more than 15.7%. **Noise≤80dB.**
5. **Smart panel** - Internet of everything. Remote control. Reduce manpower by 30%.
6. **Stability and safety** - Multiple protection and early warning functions. Stable and safe operation.
7. **High quality and long life** - Cutting-edge magnetic bearing design. No contact and zero loss. **More than 20 Years semi-permanent life cycle.**

CEMENT INDUSTRY SOLUTIONS

📍 Baoji, Shanxi



Project requirements

During cement production, blowers consume vast amounts of energy, accounting for more than 50% of the cement industry's electricity consumption. The country's emphasis on energy saving and emission reduction has brought a lot of pressure to cement enterprises with high energy consumption, forcing them to update their cement production equipment and to develop in the direction of energy saving and carbon reduction, environment-friendly protection.

Oil-free Screw Blower

Solution

According to customer needs, three 160kW oil-free screw blowers were customized. Strong adaptability to working condition, stable exhaust. Compared with traditional Roots blower, it can save energy by 30%. High workload efficiency continuous optimization, crack customer pain points.

Solution advantage

1. **High-efficiency energy saving**-Compared with traditional Roots blower, It can reduce power consumption by 30%.
2. **Increase production and efficiency**-Oil-free twin-screw host, compressed air is oil-free. Optimized profile design, more high efficiency.
3. **Improve space utilization**-Save more than 50% space resources, **reduce unnecessary construction costs.**
4. **Reduce useless waste**-No wearing parts. Maintenance-free. No spare parts. **Reduce procurement, warehousing and other costs.**
5. **High fault tolerance rate for the environment**-No need to do secondary transformation on site to achieve cost reduction and **efficiency increase.**
6. **Intelligent operation and maintenance** - standard with IoT, data visualisation, **remote and local joint control.**

ELECTROPLATING INDUSTRY GREEN ENERGY SAVING TRANSFORMATION SOLUTION

📍 Guangdong, China



Project requirements

PM Variable Frequency CentrifugalBlower

For the pcb/semiconductor industry, the company's production capacity and plating quality determine the market competitiveness of products, while whether the equipment is energy-saving determines how much economic benefits the enterprise can achieve. The original vortex blower of the enterprise is used for horizontal drying. With the growth of the service cycle, the efficiency declines linearly, the energy consumption is high, and the service life is short. The subsequent maintenance costs not only burn money, but also seriously affect the production efficiency.

Annual savings of **237,000 yuan** | Electricity saving rate of **60%**

Solution

After the actual investigation and analysis by the Xinlei technical team, the scheme was tailored based on various factors: two 7.5kw Xinlei energy-saving fans with XLCS7.5 model were used to replace the original six 4.3kW vortex fans.

Solution advantage

1. **Hidden profit "black hole"**: energy saving **exceeds 60%**, saving **nearly 230000 yuan** of electricity annually.
2. **Quiet and noiseless**: **12.5% noise reduction**, low vibration of the whole machine, noise $\leq 70\text{dB}$.
3. **Clean and oil-free**: **100% oil-free design**; high-quality clean air is supplied from the source to ensure high-quality plating pieces.
4. **Stable and reliable**: Under the pressure of high temperature and high productivity, it still maintains a stable and efficient range.
6. **The cost "manager"**: free of maintenance expenses, **reducing costs and increasing efficiency**.
7. **Fast installation**: the whole machine is **designed in an integrated way**, with a volume of less than 0.2 cubic meters, which **can be flexibly integrated into the electroplating line**.

ELECTROPLATING INDUSTRY ENERGY-SAVING SOLUTION

📍 Jiangsu, China



Project requirements

PM Variable Frequency CentrifugalBlower

Recently, the national dual control policy on energy consumption has been upgraded again, with irregular power rationing. The price of "two high" enterprises has risen, outdated production capacity has been eliminated, and green transformation of enterprises has been accelerated. As an important supporting link in high-end equipment manufacturing, advanced information technology and other fields, the PCB/semiconductor industry is urgent to improve production capacity and reduce emissions.

Annual saving of **100,000 yuan** | Energy saving rate of nearly **60%**

Solution

The technical team went deep into the customer's site, landed in the whole process, and flexibly provided a complete set of permanent magnet frequency conversion centrifugal blowers. The original vortex pump (5.5kW * 3 sets, 3kW * 1 sets) is replaced by our 15kW-25kpa.

Solution advantage

1. **Add the production capacity**: the motor efficiency is $\geq 96\%$ and the mixing is efficient. At the same time, the air volume can be flexibly adjusted according to the working conditions, **with the range of 45% - 100%**.
2. **Subtract the electricity bill**: save up to 60% of the electricity while "making money".
3. **The oil-free design of the whole machine**: outputs clean and high-quality air from the source to create high-quality products.
4. **Stronger corrosion resistance**: Parts be specially treated to ensure efficient operation under harsh electroplating environment.
5. **Intelligent standard**: air energy operation and maintenance platform, **remote control**, early warning and equipment operation and maintenance data.

XINLEI COMPRESSOR CO.,LTD.

Add: No.8, Chaoping Street, East Industry Center, Wenling, Taizhou City, Zhejiang Province, China
 Zip Code: 317511
 Fax: 0576-89969999
 Email: xinleiglobal@xinlei.com
 Web: www.xinleiglobal.com

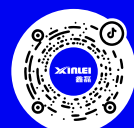
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Xinlei official website



Xinlei Wechat subscription



Xinlei Tik Tok enterprise

202507

XINLEI COMPRESSOR CO.,LTD.

CULTIVATION ENERGY SAVING SOLUTIONS

- Energy-saving
- Smart farming
- Low noise
- Stable and reliable





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.**

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

COMPANY HONOURS

Draft 4 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

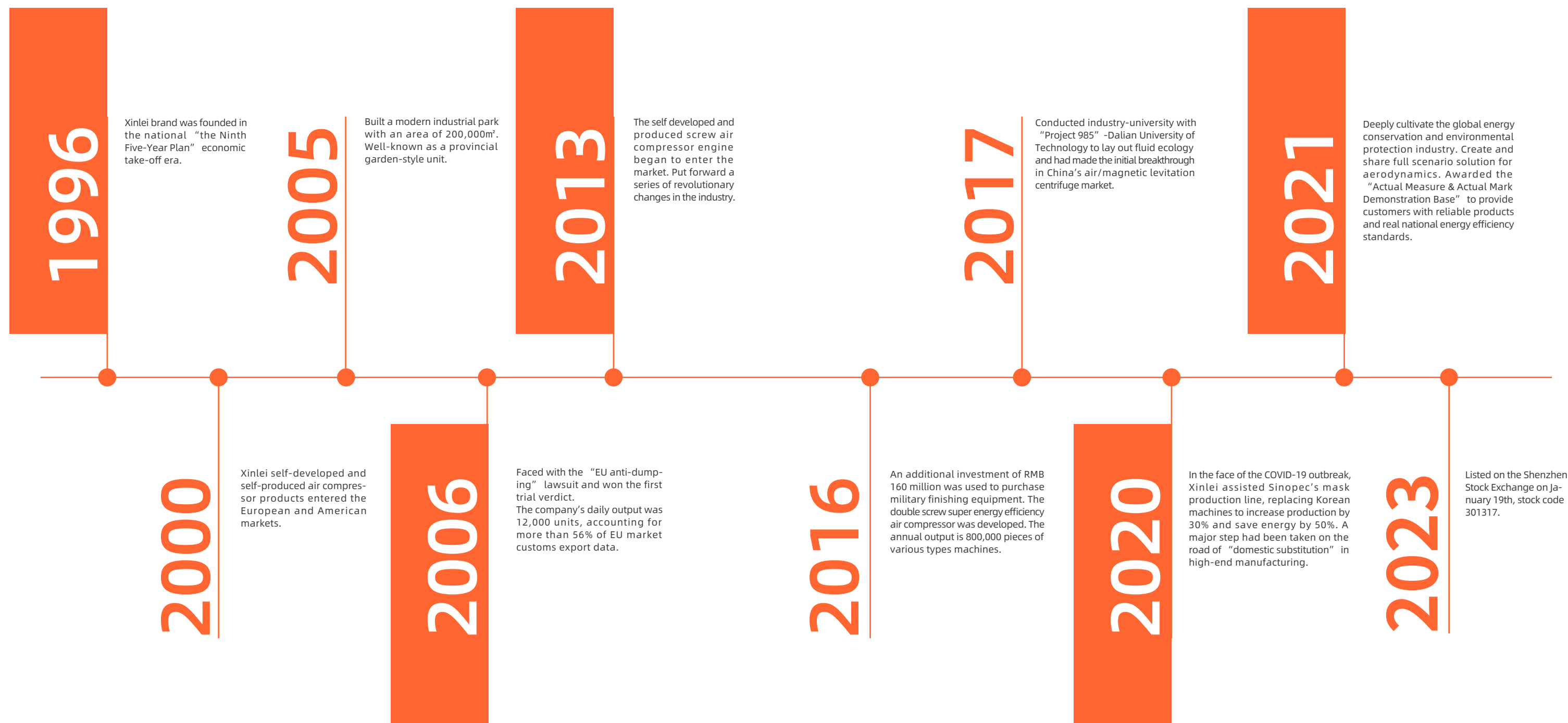
Zhejiang export famous brand & "Made in Zhejiang" Standard

2020 Excellent supplier in cement industry

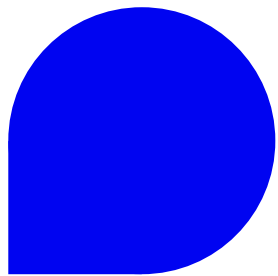
2021 China's industrial aquatic innovation equipment

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

COMPANY EVENTS AND DEVELOPMENT

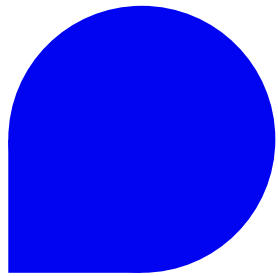


RESEARCH & DEVELOPMENT TEAM



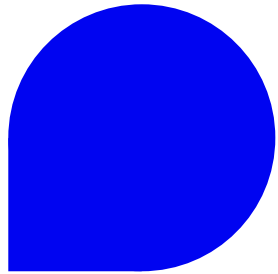
Zhong Renzhi
Chairman

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.



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, Tsugami bearing grinding 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.

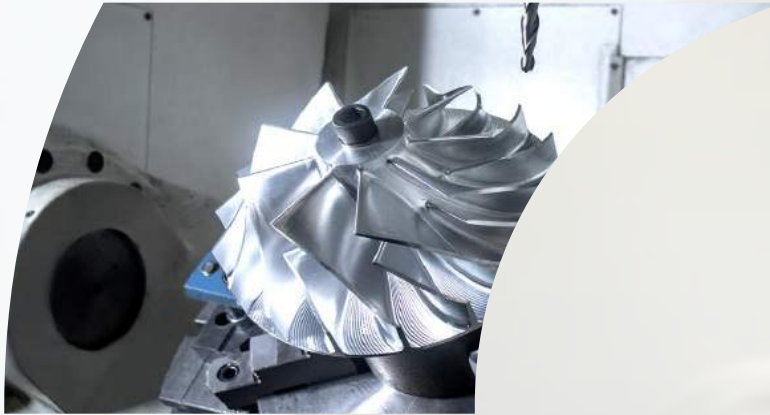
260+

high quality precision equipment to guarantee the high quality of products

○ TSUGAMI bearing grinder machining center



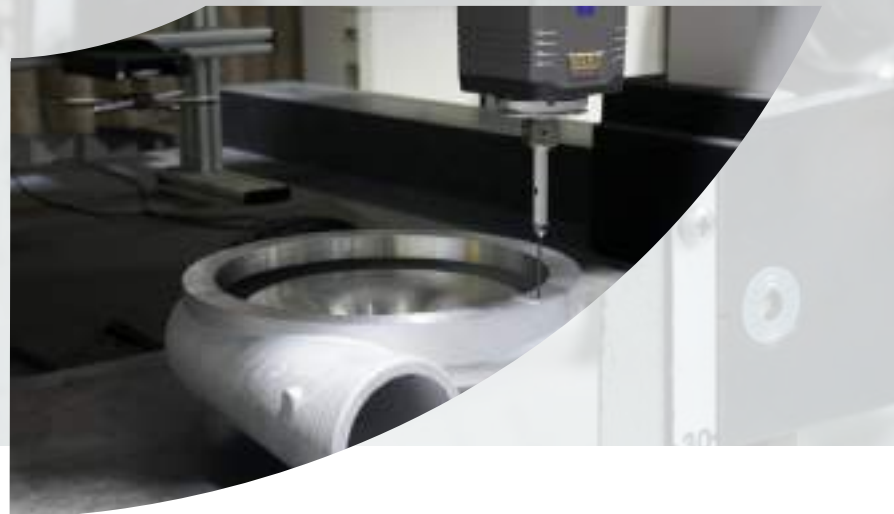
○ MAZAK high precision machining center



ZEISS three-coordinate ○ testing center



○ Dynamic balance testing center



PROCESSING STRENGTH

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 High Speed Aerator

Aquaculture with Energy saving and cost-effective

Small volume and
low noise

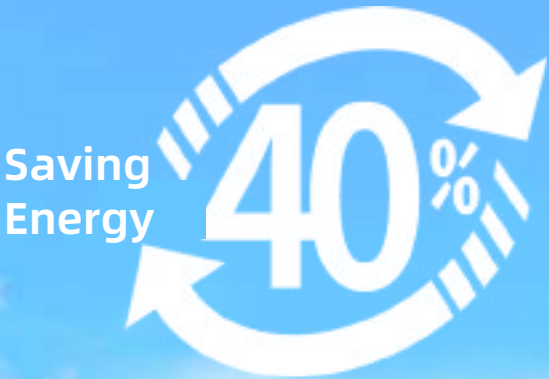
Large air flow and
uniform aeration

Achieving high production
and increasing revenue

Saving time and effort
by APP remote control

Improving the ecological
environment of water

Improving oxygen
content in water quickly



Saving **40%**
Power



Noise
70dB



Mobile phone
remote control



All in one
Integration



INNOVATION

CORE COMPONENTS

Comprehensive advantages



Energy saving 40%

- Permanent magnet synchronous high-speed motor
- + high-efficiency three-dimensional flow impeller
- saving 40% energy compared with traditional fans (vortex, roots, etc.)



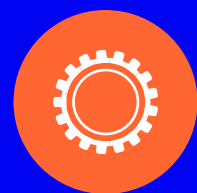
Low noise and oil free

- Low vibration , noise < 70dba
- Oil free design in air compression process to discharge oil-free clean air



Mobile APP remote control

- PLC + remote data monitoring
- Remote debugging and adjustment of equipment operating conditions



Stable and reliable

- The air volume generated by the centrifugal impeller is continuous and stable, and there is no pressure attenuation during long-term operation
- It can be started and stopped frequently, with a wide range of working conditions and an adjustable speed range of 5% - 110%
- Annual inspection and lifetime warranty

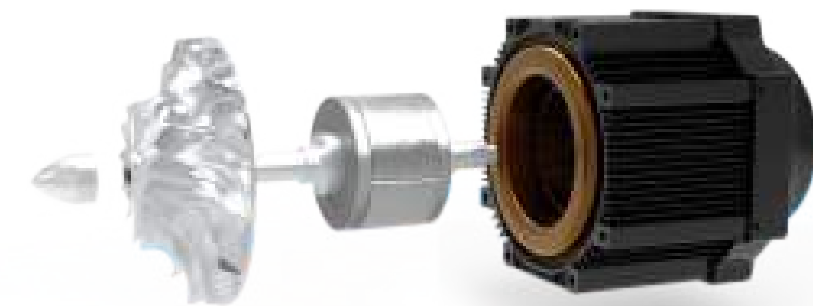


Easy to assemble and disassemble

- Special structure design is adopted, the disassembly and assembly of the whole machine only takes 30 minutes, and the installation is convenient
- No mechanical maintenance is required for normal operation

Two core cool technologies

Derived from aviation turbine technology



Impeller and motor use integrated direct connection technology

The impeller and the motor share a shaft design, no intermediate transition such as pulley and other connecting parts are needed, no transmission loss, and **the transmission efficiency is 100%**



High-speed permanent magnet motor

Adopt high efficiency permanent magnet synchronous motor (PMSM), efficiency $\geq 96\%$; Aerodynamic engineering technology, The speed can reach more than 20,000 rpm; the insulation grade is H (maximum temperature resistance 180°C).



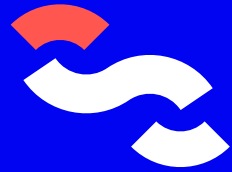
Three-way flow impeller

High-order modal calculation obtains the optimal solution for the full arc of the impeller, avoiding turbulence and reducing over-speed blocking; precision manufacturing of aviation aluminum material with strong corrosion resistance; precision manufacturing by 5-axis machining center, the tolerance is kept below 5/1000 mm; impeller Directly connected to the shaft, the power transmission efficiency can reach 100%.



XINLEI

High Speed Aerator



AERATOR STRUCTURE

Xinlei high-speed aerator is highly integrated, small in size, light in weight and easy to install.



Intelligent Control Panel

- Maintain a certain pressure, flow and speed through the PLC control system, which is easy to control.
- Using mobile phone APP to realize remote control;
- With anti-surge (SURGE) protection function, improve product safety, provide a variety of working modes;
- Automatic fault alarm, easy to analyze the cause of the fault.



PLC electronic control system

- Real-time monitoring system operation data and trajectory, multiple protection early warning functions;
- IOT database management, setting up a background service platform, and modular management of equipment energy efficiency.



Permanent magnet high speed motor

- Optimized design of permanent magnet synchronous motor to rotate at high speed;
- Precise speed control via inverter.

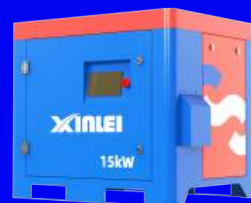


High efficiency inverter

- High stability and reliability;
- High-speed rotation function that saves energy by adjusting the frequency;
- Built-in DC reactor, which can suppress power harmonics, precision operation, soft start;
- Adjust the fan air flow through the inverter, the adjustable range is 45% to 110%;

Why choose XINLEI high speed aerator?

XINLEI high speed aerator



40% energy saving

Low noise, below 70dB

The aerator is highly integrated and easy to install

Microcomputer precise control to achieve stepless speed regulation

Smart control panel for easy operation

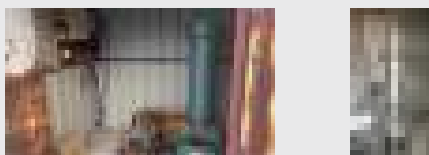
Online monitoring by mobile phone remote control

Automatically alarm and record the cause of failure in time

Complete filtration system to provide clean air

Corrosion resistance and longer service life

Roots blower



Traditional technology and high power consumption

Loud noise is harmful to the health of shrimp farmers

Risk of electric leakage without body cover

It is difficult to control without microcomputer intelligent oxygen supply

Complicated operation and easy failure

Need to go to the site frequently to confirm the oxygen supply

It will just stop if there is error and cannot record the reason

There are many impurities in oxygen supply, which is easy to cause pollution

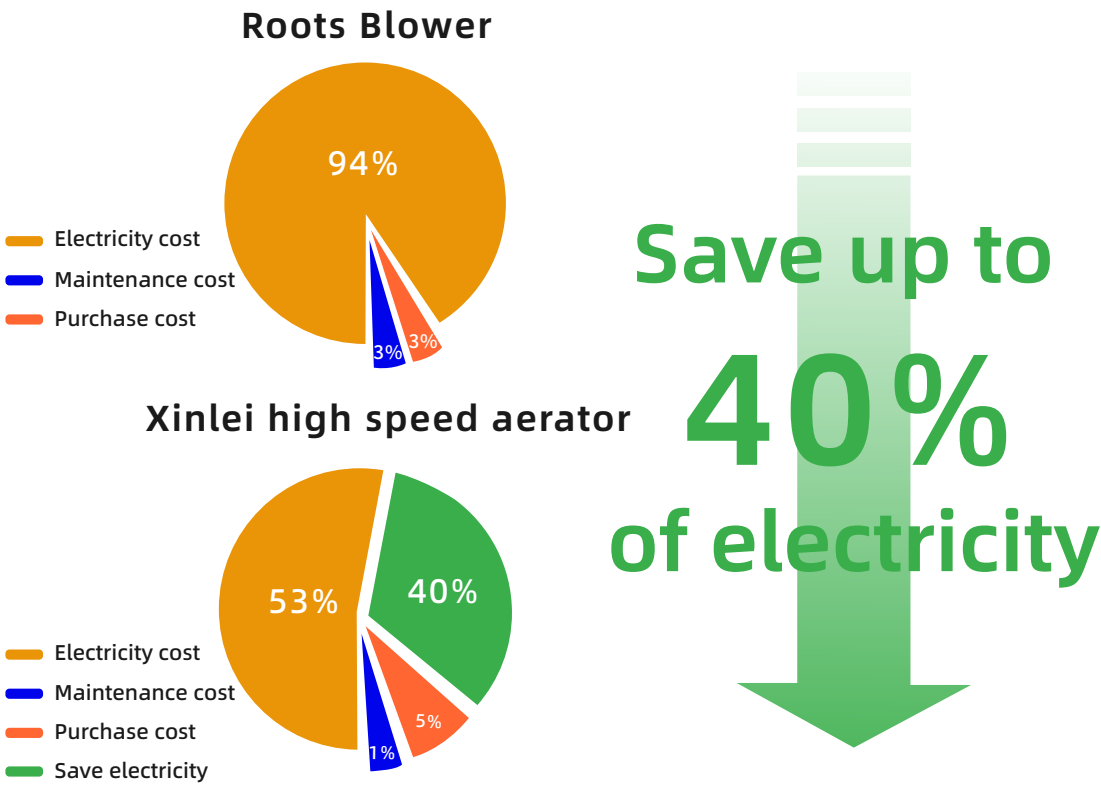
The equipment is easy to corrode, the cleaning and maintenance cost is high

ECONOMIC BENEFITS



One **37KW** Xinlei high-speed aerator replaces one **55kW** roots blower

Comparison chart of running cost



DECODING THE SECRET OF HIGH YIELD IN SMALL SHED SHRIMP FARMING

📍 Rudong, Jiangsu



Project requirements

The small shed shrimp base uses roots blowers, which wastes a lot of space resources, and one machine occupies half of the room. The components are huge, and the maintenance takes time and effort ; the external inverter is inconvenient to operate. It is hot and humid in South China,there is a serious potential leakage safety hazard because of irregular plug board and aging shell.

Annual savings of **16,920USD** | Electricity saving rate is nearly **55%**

Solution

The technical team customized Xinlei high-speed aerator supports 51 farming sheds with 20KW electric power,covering a total area of 20,000 square meter, and the air volume is more sufficient and more uniform.

Solution advantage

1. **Energy-saving**—the energy-saving rate is **55%**, and the annual electricity cost is **16,920USD**.
2. **Quiet and noiseless**—**12.5% noise reduction**, low vibration of the whole machine, **noise ≤70dB**.
3. **Clean and oil-free**—**100% oil-free design**, supplying high-quality clean air at the source.
4. **Stable and reliable**— Under the pressure of high temperature and high production capacity, it still maintains a stable and efficient range.
5. **Cost "manager"** – eliminating maintenance costs, **reducing costs and increasing efficiency**.
6. **Extremely fast installation**— integrated design of **the whole machine**, which can be integrated into the scene.

XINLEI high speed aerator
Help aquaculture to save energy and increase income



► Obvious noise reduction effect

The roots blower was so loud and we was talking and gesticulating, and our throats got dry. After sales engineers replaced roots blower with XINLEI high speed aerator, the normal communication made everyone feel relaxed and happy. The shrimp farmers' eyes narrowed with laughter and said that the noise of the roots blower hurts my head. This aerator is great. The noise is much lower.

XINLEI high speed aerator noise < 70dB

Roots Blower Noise > 100dB



► Large flow and uniform aeration

After XINLEI high speed aerator replaced roots blower, we went to observe the situation of oxygenation and found that the aeration rate was uniform no matter far or near the shrimp shed. Shrimp farmers exclaimed and said that this aerator is good. In the past, there was a large aeration rate in shrimp shed nearby, but a small aeration rate in the shrimp shed in the distance. It was easy to lack oxygen for the shrimp and lost a lot of money.



► Saving 40% energy

After watching all the shrimp sheds, the oxygen content is uniform in total 51 sheds here. The original roots blower is 45KW, which may not be able to evenly aerate. Now XINLEI high speed aerator is only 20kW. Shrimp farmers are very happy and said that they can save more than 23,000 USD one year.

HIGH-LEVEL POND BREEDING "OXYGEN-RICH" INTELLIGENT SOLUTION

📍 Zhangzhou, Fujian



Project requirements

The high-level pond breeding mode is mainly composed of 4 major systems: sedimentation and disinfection system, water inlet system, sewage system, and oxygenation system. Difficult to cultivate algae, easy to fall algae in the later stage, weak self-purification ability of water body and other weaknesses. The high-level pool pursues high production.

Annual savings of **11,850USD** | Electricity saving rate is nearly **40%**

Solution

The technical team conducted an on-site investigation and replaced the 55kW Roots blower with a 37kW Xinlei high-speed aerator, with an energy saving rate of over 40%, reducing costs and increasing efficiency.

Solution advantage

1. **Add the production capacity** - motor efficiency $\geq 96\%$. At the same time, the air volume can be flexibly adjusted according to the working conditions, ranging from **45% to 100%**.
2. **Subtract electricity bills** - save electricity up to **40%**, and "earn money" as you use it.
3. **Oil-free design of the whole machine** - clean and high-quality air is output from the source to create high-quality products.
4. **Stronger anti-corrosion performance** - parts are specially treated, and efficient operation in harsh environments is unimpeded.

Xinlei high speed aerator A good helper for aquaculture

1 Quickly improve the oxygen content in water

It can make full use of the favorable factors of the breeding pond and truly play the role of "one inch of water, one inch of fish".

2 Prevent or reduce the floating head of fish and shrimp

Due to the rapid effect of oxygen increasing, fish and shrimp can survive easily.

3 Accelerate pond material circulation

As the dissolved oxygen in the pond is supplemented, the aerobic bacteria in the lower water and silt are rapidly colonized, thereby accelerating the inorganicization process of organic matter and forming new organisms.

4 Purify water bodies

Due to the accelerated material circulation in the pond, the organic matter (including excrement, animal carcasses, etc.) that affects the life of fish and shrimp is converted into inorganic salts, creating a good growth environment for fish and shrimp.

5 Stable water quality

Due to the increase of dissolved oxygen in the water, the pond material circulates quickly, which creates a good parent for the reproduction of plankton and keeps the water quality stable.

6 Improve the utilization rate of bait

Due to the improvement of dissolved oxygen in the pond water, the speed of material circulation is accelerated, which promotes the metabolism of fish and shrimp, which is beneficial to the growth of fish and shrimp and improves the utilization rate of bait.

7 Be beneficial to prevent diseases

Due to the increase of dissolved oxygen in the pond water, the fish and shrimp have good physique and fast growth, enhance the resistance of fish and shrimp to diseases, and the incidence rate also decreases accordingly.



FACTORY FARMING ENSURES OXYGEN INCREASE

📍 Dafeng, Jiangsu



Project requirements

Factory aquaculture is a farming model that industrializes traditional fisheries. It uses modern science and technology for high-density and intensive production of aquatic products. Dissolved oxygen is the key to aquaculture. The lack of oxygen in the water body is an important cause of death and disease in aquaculture. Therefore, rational design to increase oxygenation is an important link in the success or failure of aquaculture.

Solution

The Xinlei technical team supplies oxygen to **48** breeding sheds with **18KW** electric power of Xinlei high-speed aerator, covering a total area of **17,340 square meter**.

Solution advantage

1. **High efficiency and energy saving**—save electricity by more **than 40%**, make money while using
2. **Strong environmental compatibility**—the whole machine is integrated, the installation is convenient, and the indoor and outdoor are seamlessly connected.
3. **Low noise**—noise $\leq 70\text{dB}$, protect physical and mental health.
4. **Time-saving and labor-saving**—standard Internet of Things, **remote control by mobile APP**.
5. **Money-saving expert**—no consumables, no maintenance, no oil leakage, **cost reduction and efficiency increase**.
6. **Long life**—corrosion resistance, longer life.

SEEDLINGS RAISE HIGH YIELD AND INCREASE INCOME "XIN" POTENTIAL ENERGY

📍 Weifang, Shandong



Project requirements

Due to lack of oxygen and insufficient material circulation in the pond, it is easy for the water to become algae. lead to a low survival rate. Therefore, in order to ensure the survival rate of shrimp fry, the stability of water quality in the early stage is very important, and aerator is an indispensable tool for stabilizing water quality.

Solution

The technical team went deep into the customer's site and used Xinlei high-speed aerator supports **80** farming sheds with **10KW** electric power, covering a total area of **2,870 square meter**.

Solution advantage

1. **Add the production capacity**—motor efficiency $\geq 96\%$. At the same time, the air volume can be flexibly adjusted according to the working conditions, ranging from **45% to 100%**.
2. **Subtract electricity bills**—save electricity up to **40%**, and "earn money" as you use it.
3. **Oil-free design of the whole machine**—clean and high-quality air is output from the source to create high-quality products.
4. **Intelligent**—standard air energy operation and maintenance platform, **remote control**, early warning and equipment operation and maintenance data.
5. **Cost-saving**—no consumables, no maintenance, no spare spare parts, reducing the cost of spare parts procurement planning, warehousing and other links.

TECHNICAL PARAMETER

Below 1.2m water depth selection parameter table

Model	10ZWP28-4	10ZWP28-5.5	10ZWP28-7.5	10ZWP28-11	10ZWP28-15	10ZWP28-18.5	10ZWP28-22	10ZWP28-30	10ZWP28-37	10ZWP28-45	10ZWP28-55
Powe (kW)	4	5.5	7.5	11	15	18.5	22	30	37	45	55
Pressure (kPa)	Air flow(m³/min): 1atm, 20°CHumidity65%										
10	13.2	15.6	21.3	36.1	47.2	51	55.3	78.4	96.8	118	143.9
15	11.8	14.9	20.9	30.5	41.6	45.8	52.5	74.6	92.1	112	137
20	10.1	13.3	18.1	25.8	38.3	43.3	49.1	70.1	86.6	105	128.7
25	6.8	10.7	13.8	20.9	28.5	35.1	41.7	57.1	70.3	88	104.5
L (mm)	850	850	850	950	950	950	950	1220	1220	1220	1220
W (mm)	570	570	570	720	720	740	740	1020	1020	1020	1020
H (mm)	700	700	700	800	800	800	800	1000	1000	1000	1150
Outlet pipe diameter	DN65	DN65	DN65	DN100	DN100	DN125	DN125	DN200	DN200	DN200	DN250
Weight (kg)	78	82	110	142	142	170	170	260	260	270	320

1.2m-3m water depth selection parameter table

Model	10ZWP28-4	10ZWP28-5.5	10ZWP28-7.5	10ZWP28-11	10ZWP28-15	10ZWP28-18.5	10ZWP28-22	10ZWP28-30	10ZWP28-37	10ZWP28-45	10ZWP28-55
Powe (kW)	4	5.5	7.5	11	15	18.5	22	30	37	45	55
Pressure (kPa)	Air flow(m³/min): 1atm, 20°CHumidity65%										
30	6.2	8.7	11.9	17.5	23.9	29.5	35	48	59.2	72	88
35	5.2	7.1	10	14.7	21.3	26.2	30.6	40	49.3	58	73.3
40	—	—	—	13	17.7	21.8	26	35.4	43.7	53.1	65
L (mm)	850	850	850	950	950	950	950	1120	1220	1120	1120
W (mm)	570	570	570	720	720	720	720	1020	1020	1020	1020
H (mm)	700	700	700	800	800	800	800	1000	1000	1000	1150
Outlet pipe diameter	DN65	DN65	DN65	DN100	DN100	DN125	DN125	DN200	DN200	DN200	DN250
Weight (kg)	78	80	80	135	135	165	165	240	250	255	300



Strong strength,After-sale
Service Ganranteed
24-hour response on-site service



Professional after-sales engineer technical training



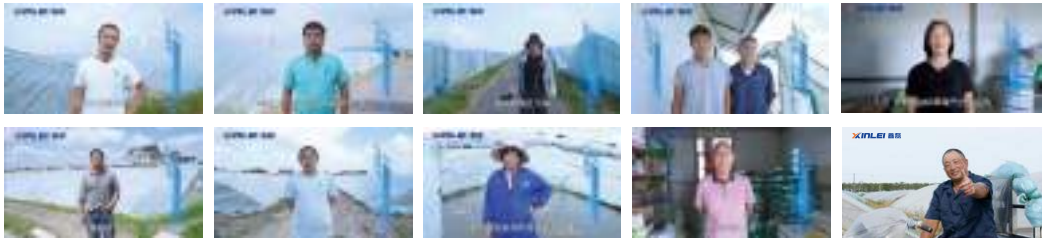
Annual regular inspection



Buy the rest assured that with the peace of mind

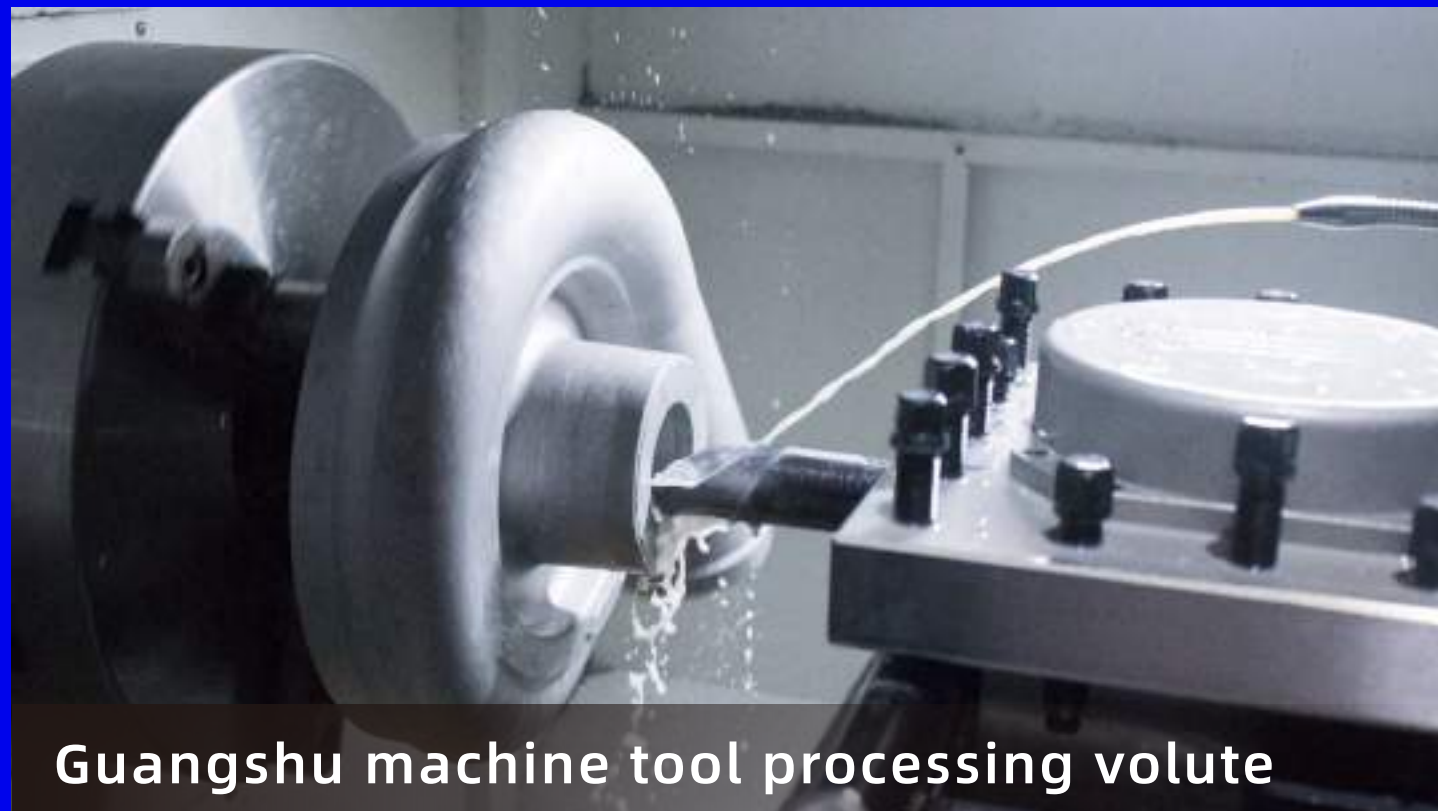
2-hour after-sales service circle: Provide comprehensive and
worry-free after-sales service for breeding partners, cost-effective
oxygen, and peace of mind.

Strong R & D team to provide technical service support.



Scan to view
the video of
customer testimonials

The core components are
85% patented
High precision integrated
coordination



Guangshu machine tool processing volute



Ternary flow impeller

Aviation aluminum precision manufacturing, strong corrosion resistance; Precision manufacturing through 5-axis machining center, tolerance is maintained below 5/1000 mm; The high-order mode calculation obtains the optimal solution of the impeller full arc to avoid prime flow and reduce overspeed blocking.

High speed permanent magnet motor

Uses a high-efficiency Permanent Magnet Synchronous Motor (PMSM) with efficiency $\geq 96\%$.
Direct connection between the impeller and the shaft, achieving 100% power transmission efficiency.
Incorporates aerospace propulsion technology, with rotational speeds exceeding **100,000 RPM**.



Air Suspension Bearing

Zero-friction operation, highly efficient and energy-saving — reduces energy consumption by approximately **20%-30%** compared to traditional mechanical bearings.
Adjustable air film stiffness, supporting rotor speeds exceeding **100,000 RPM**.
Excellent dynamic stability, with vibration levels below **0.1 mm/s** (in compliance with ISO 10816 standard), making it ideal for high-precision aeration control.



NONOVATION

WHOLE STRUCTURE

WHOLE STRUCTURE

Air Suspension High-Speed Aeration Blower

Compact and lightweight, featuring a special structural design that enables quick disassembly and convenient installation.

PLC Control System

- Real-time monitoring of system operating data and performance trends, with multiple protection and early warning functions.
- IoT-based database management, enabling the creation of a backend service platform and modular management of equipment energy efficiency.

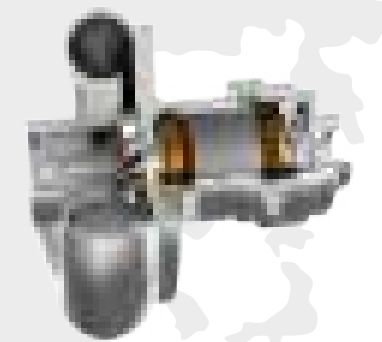


High-Efficiency Inverter

- High stability and reliability.
 - Achieves high-speed rotation and energy savings by adjusting the operating frequency.
 - Built-in DC reactor to suppress power supply harmonics, ensuring precise operation and soft start.
 - Controls fan airflow via frequency regulation, with an adjustable range of 45%–110%.
- Depending on the fan specifications, the inverter operating frequency typically ranges from 400 to 1000 Hz.

High-Speed Permanent Magnet Motor

- Equipped with a high-efficiency Permanent Magnet Synchronous Motor (PMSM), with efficiency $\geq 96\%$.
 - The three-dimensional flow impeller is precision-manufactured from aerospace-grade aluminum, offering high strength and excellent corrosion resistance. It is suitable for harsh working environments with high temperature, high humidity, and corrosive substances.
 - Manufactured with 5-axis machining, ensuring tolerances within 0.005 mm. The impeller is directly connected to the shaft, achieving 100% power transmission efficiency.
 - Incorporates aerospace propulsion technology, with rotational speeds exceeding 100,000 RPM.
- Insulation class H, with a maximum temperature resistance of 180°C.



Air Suspension Bearing

- Achieves self-suspension through centrifugal force generated by high-speed rotation.
- Fluid dynamic pressure within the radial bearing creates lift force.
- Forms a fluid lubrication layer using air pressure, ensuring non-contact and wear-free operation.



Smart Control Panel

- Real-time monitoring of equipment operation via touchscreen interface.
- Remote control enabled through a mobile app.
- Automatic fault alarm for easy troubleshooting and diagnostics.



COMPREHENSIVE ADVANTAGES

Energy efficient

- 40% energy saving compared with traditional Roots blower

Efficient Air Energy Management

- PLC control system + touch screen, real-time monitoring system operation
- Standard Internet of Things, component background service platform, control the operation anytime, anywhere

Low maintenance cost

- Designed for semi-permanent use over 20+ years, no worries about upgrades
- 100% oil-free air suspension bearing system, avoiding secondary pollution, no regular maintenance or bearing replacement needed

Easy to install

- Highly integrated unit with compact size and lightweight
- No foundation or anchor bolts required

Air Suspension High-Speed Aeration Blower

BLOWER

● Power:7.5-110kW

● Pressure:10-40kPa



Low noise
no vibration



Energy saving and
environmental
protection



Intelligent
remote control



Convenient disassembly
and assembly



PARAMETER SELECTION

Model(HP)	10	20	30	40	50	60	75	100	110 (Double Volute)	150 (Double Volute)
Power(kW)	7.5	15	22	30	37	45	55	75	80	110
Pressure (kPa)	Flow Rate (m³/min) : 1atm, 20°C Humidity 65%									
10	18	36	53	72	95	112	133	168	210	285
15	16	33	49	66	88	103	123	155	190	262
20	15	30	45	61	79	93	111	140	170	240
25	14	27	41	55	72	85	101	127	150	215
30	12	25	36	49	66	77	92	116	135	195
35	11	21	31	42	56	66	78	104	116	165
40	9.5	19	28	38	50	59	70	93	110	150
L (mm)	1200	1200	1375	1375	1375	1375	1550	1550	1600	1900
W (mm)	890	890	1285	1285	1285	1285	1380	1380	1300	2500
H (mm)	950	950	1050	1050	1050	1050	1220	1220	1250	1300
Outlet Pipe Diameter	DN65	DN65	DN200	DN200	DN200	DN200	DN250	DN250	双DN250	DN400
Weight (kG)	240	240	400	400	400	400	480	480	480	720



PRECISION OXYGENATION EMPOWERING WHITE SHRIMP FARMING

📍 Yancheng, Jiangsu



Project requirements

The white shrimp farming area in Fangdong Village, Dongtai City, Yancheng, Jiangsu Province, faces the challenge of dissolved oxygen demand due to high-density farming. A reasonable oxygenation design is key to ensuring healthy aquaculture growth. To improve farming efficiency, reduce energy consumption, and maintain stable water quality, there is an urgent need for a high-efficiency, energy-saving, and intelligent oxygenation device.

Solution

The 75kW air suspension high-speed oxygenation machine provided by Xinlei is the best choice for this project. The equipment supplies oxygen to 43 farming sheds (0.6 mu each), covering a total oxygenation area of 25.8 mu. Through the innovative application of air suspension technology, it achieves high efficiency, energy saving, and stable oxygen supply, helping the farming area effectively control dissolved oxygen levels in the water and reduce farming risks.

Solution advantage

- 1. **Energy and Cost Efficient**—Saves 40% more energy than traditional Roots blowers, leading to significant power and cost savings.
- 2. **Smart Control**—Equipped with a PLC control system and IoT connectivity for real-time monitoring anytime, anywhere.
- 3. **Maintenance-Free**—Designed for 20 years of hassle-free operation with an oil-free air suspension system, eliminating frequent maintenance needs.
- 4. **Easy Installation**—Compact, fully integrated unit that is lightweight and space-saving, making installation quick and simple.
- 5. **Long Lifespan**—Corrosion-resistant design ensures a longer operational life.

EFFICIENT OXYGENATION CLEAR PATH FOR SHRIMP GROWTH

📍 Yancheng, Jiangsu



Project requirements

In Yancheng, Jiangsu Province, white shrimp farming has entered a stage of high-density and refined management. How to stably increase dissolved oxygen levels in limited water bodies, reduce disease risks, while lowering energy consumption and simplifying operation and maintenance, is an urgent problem local farmers need to solve.

Solution

To meet this demand, Xinlei provides a 75kW air suspension high-speed oxygenation machine, covering 54 farming sheds (0.54 mu each), with a total oxygenation area of 29.16 mu. The equipment uses air suspension bearing technology to achieve efficient, energy-saving, and stable oxygen supply, creating the optimal growth environment for white shrimp.

Solution advantage

- 1. **Efficient Oxygen Supply, Worry-Free Shrimp Farming** – Air suspension bearing and high-efficiency impeller deliver strong oxygen output, maintaining stable dissolved oxygen levels in the water.
- 2. **40% Energy Saving, Easy Profit** – More energy-efficient than traditional Roots blowers, boosting farming profitability.
- 3. **Smart Monitoring, One-Click Control** – PLC combined with IoT enables remote management to check operating status anytime, anywhere.
- 4. **Enhanced Corrosion Resistance** – Components undergo special treatment for efficient operation even in harsh environments.
- 5. **Hassle-Free Installation and Maintenance** – Compact, space-saving design requires no foundation; maintenance-free for up to 20 years.

XLMC-HT/HN Series Magnetic Levitation Variable-Frequency Centrifugal Heat Pump Unit (for Aquaculture Use)

| One Unit of Electricity, Six Units of Heat |

Dual First-Class Energy Efficiency
Green and Energy-Saving

Up to 70% Cost Reduction
Compared to Traditional Boilers

Oil-Free Operation with
Extended Service Life

Intelligent Operation and Maintenance
with Adjustable Temperature

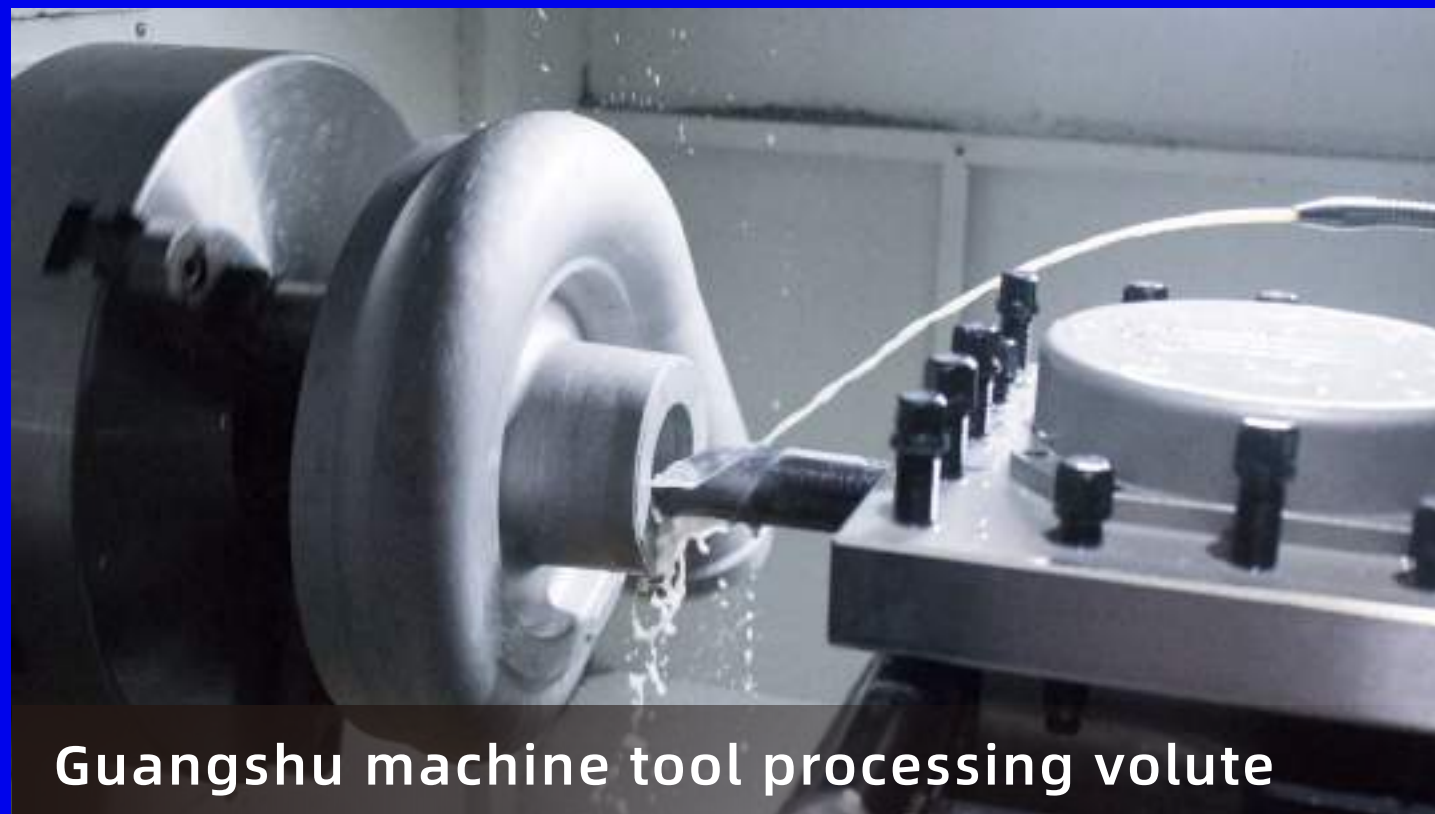
Operating Cost Comparison

To heat 1 ton of water from 15° C to 45° C, the required raw materials and associated costs are calculated and compared

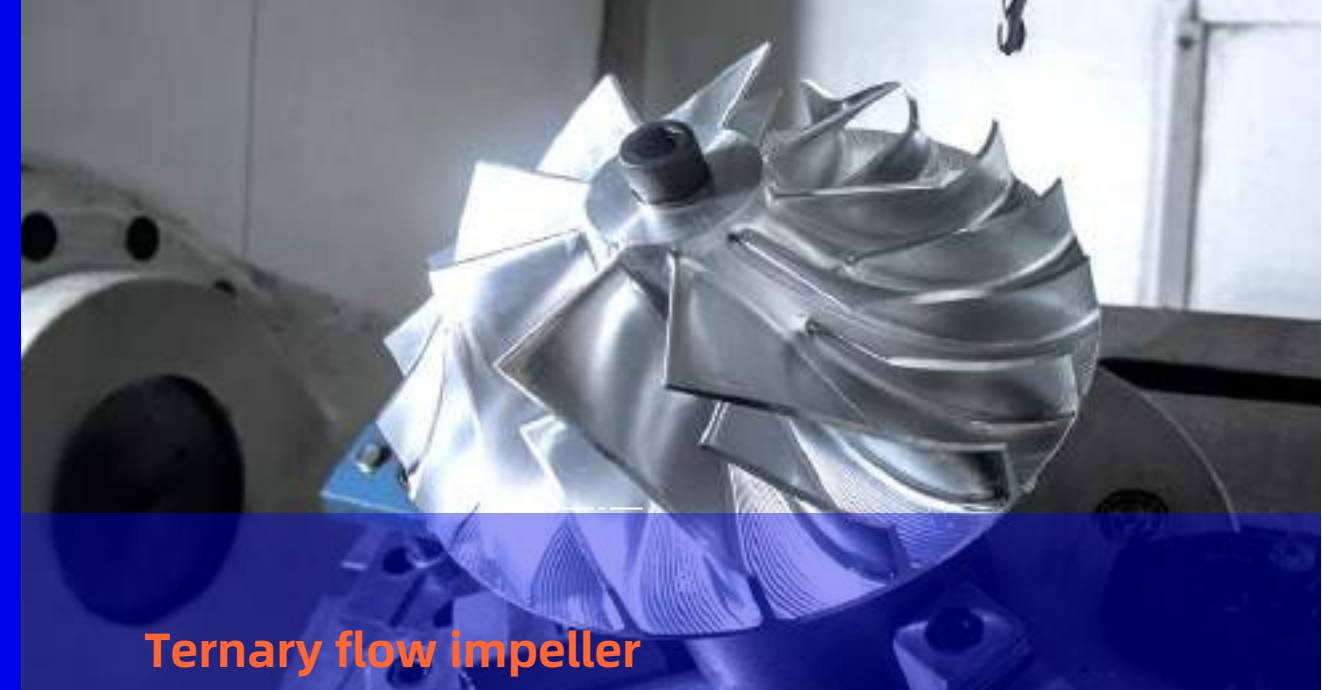
Equipment Types	Natural Gas Boiler	Biomass Pellet Boiler	Coal-Fired Boiler	Screw-Type Heat Pump Unit	Magnetic Levitation Centrifugal Heat Pump Unit
Fuel Types	Natural gas	Bioparticles	Coal	Electricity	Electricity
Fuel Calorific Value	8600kcal/m ³	3000kcal/kg	5000kcal/kg	860kcal/kWh	860kcal/kWh
Fuel Consumption	3.80m ³	12.09kg	8.60kg	7.29/kWh	6.14/kWh
Fuel Price	4元/m ³	1.1元/kg	1元/kg	0.5元/kWh	0.5元/kWh
Fuel Cost	15.22RMB	13.30元	8.6元	3.65元	3.07RMB



The core components are
85% patented
 High precision integrated
 coordination



Guangshu machine tool processing volute

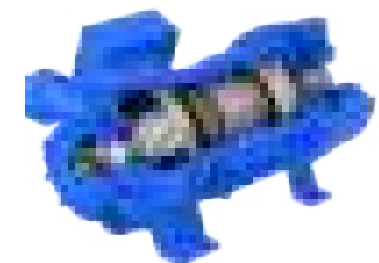


Ternary flow impeller

Aviation aluminum precision manufacturing, strong corrosion resistance; Precision manufacturing through 5-axis machining center, tolerance is maintained below 5/1000 mm; The high-order mode calculation obtains the optimal solution of the impeller full arc to avoid prime flow and reduce overspeed blocking.

Magnetic Levitation Centrifugal Compressor

Direct motor drive without speed-increasing gears or mechanical friction, enhancing system reliability and extending service life - No lubrication system required, **resulting in high energy efficiency** - Magnetic bearing technology for zero-friction operation - Two-stage compression for a wide operating range - **Low noise and low vibration for quiet, stable performance.**



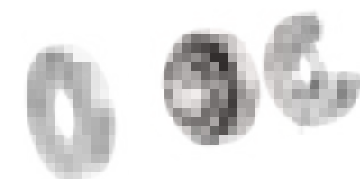
High speed permanent magnet motor

Compact permanent magnet synchronous motor structure, with efficiency exceeding 95% across all operating conditions, and reaching up to **97.5%** at peak - Utilizes space vector pulse width modulation (SVPWM) technology for energy-saving performance across the full load range - Features Class H insulation design and real-time stator temperature monitoring, enabling precise motor cooling and ensuring high reliability Insulation **class H**, with a maximum temperature resistance of 180°C.



Magnetic Bearing

Integrated radial and axial modular design for compact structure and stable performance - No lubrication required, enabling zero friction and low power consumption—only **3-10%** of conventional oil bearings - Higher rotational speeds further enhance energy-saving performance



INNOVATION

WHOLE STRUCTURE

WHOLE STRUCTURE

Magnetic Levitation Variable-Frequency Centrifugal Heat Pump Unit (for Aquaculture Use)

Compact and lightweight, featuring a special structural design that enables quick disassembly and convenient installation.

Control Cabinet

- PLC-based electrical control system for real-time monitoring of system operation data and trajectories, with multi-level protection and early warning features.
- IOT database management, enabling the setup of a backend service platform and modular energy efficiency management for equipment.



Smart Operation Panel

- Touchscreen control interface provides users with an intuitive and user-friendly experience.
- Cloud-based remote monitoring with automatic fault alerts, making it easier to analyze the cause of malfunctions.



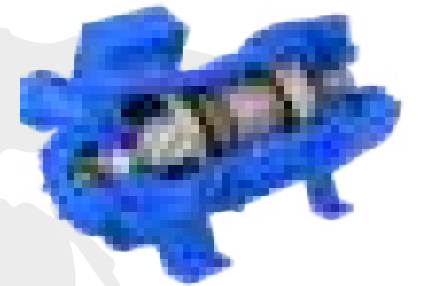
Electronic Level Gauge

- Real-time monitoring of liquid levels - Automatic adjustment of throttle valve opening.



Magnetic Levitation Centrifugal Compressor

- Two-stage compression with large surge margin for broader operating range.
- Horizontally opposed impellers for reduced axial force.
- 3.Variable-frequency direct drive with low starting current and high unit efficiency.
- Magnetic bearings for zero-friction operation and sustained efficiency.
- Built-in stepper motor and guide vane mechanism with precise mechanical limits and high reliability.



High-Efficiency Dedicated Aquaculture Heat Exchanger

- Utilizes advanced heat exchanger technology for efficient thermal transfer.
- Corrosion-resistant materials: Based on aquaculture water source and quality requirements, optional heat exchange tube materials include red copper (TP2), stainless steel (S316L), and titanium tubes (TA1); tube sheets and water chambers are made of carbon steel, stainless steel, or titanium composite plates to meet corrosion resistance standards.



Flash Evaporator Economizer

- The unit adopts two-stage compression with vapor injection and enthalpy enhancement technology, resulting in a 6% higher efficiency compared to single-stage refrigeration systems.



COMPREHENSIVE ADVANTAGES

Zero Friction Oil-Free Design

- Magnetic levitation bearing technology with zero friction
- Oil free system with maintenance-free operation

70% Energy Savings

- Dual First-Class Energy Efficiency
- Eco-Friendly Design Uses R134a refrigerant with zero ozone depletion potential
- Adaptable to Various Pressure Ratio Conditions Ensures stable operation across different working scenarios

Low Noise

- The unit generates extremely low noise and vibration
- Compressor noise is as low as 70 dB

Multiple Operating Modes

- The unit supports cooling, heating, and heat recovery modes
- Precise temperature control with outlet water temperature accuracy of ±0.1°C

Magnetic Levitation Variable-Frequency Centrifugal Heat Pump Unit

HEAT PUMP UNIT

● Heating Capacity: 263.7-2285kW



Low noise
no vibration



Energy saving and
environmental
protection



Intelligent
remote control



Save
money



PARAMETER SELECTION

XLMC-HT Series Magnetic Levitation Variable-Frequency Centrifugal Heat Pump Unit (for Aquaculture Use, Specific Container)

Unit model		XLMC	75HT	85HT	200HT	400HT	450HT	500HT	550HT	600HT
Heat production	RT		75	85	200	400	450	500	550	600
	kW		263.7	298.9	703.2	1406	1582	1758	1934	2110
	10 ⁴ kcal/h		22.68	25.70	60.48	121.0	136.1	151.2	166.3	181.4
Input power	kW		59.8	66.7	148.0	278.5	306.0	342.7	365.6	403.4
Heating (COP _H)	W/W		4.41	4.48	4.75	5.05	5.17	5.13	5.29	5.23
Motor configuration power	kW		80	80	160	360	360	360	460	460
Rated current of the unit	A		98.7	110.1	244.3	459.5	505.0	565.4	603.2	665.6
The maximum operating current of the unit	A		108.5	121.1	268.7	505.5	555.5	622.0	663.5	732.1
Evaporator	Version	Aquaculture full-liquid evaporator (titanium or stainless steel)								
	Water flow	m ³ /h	35.1	39.9	95.5	194.0	219.5	243.4	269.7	293.5
	Waterside pressure drop	kPa	78	79	77	74	75	85	82	86
	Take over the bore	mm	DN100	DN100	DN150	DN200	DN200	DN200	DN250	DN250
Condenser	Version	Shell tube heat exchanger for aquaculture (titanium or stainless steel)								
	Water flow	m ³ /h	45.4	51.4	121.0	241.9	272.1	302.4	332.6	362.9
	Water side pressure drop	kPa	87	88	87	82	84	92	85	93
	Take over the path	mm	DN100	DN100	DN150	DN200	DN200	DN200	DN250	DN250
Dimensions	L	mm	2670	2670	2800	4580	4580	4580	4620	4620
	W	mm	1155	1155	1800	1800	1800	1800	2040	2040
	H	mm	1920	1920	1900	2100	2100	2100	2265	2265
Shipping Weight (Stainless Steel)		kg	1770	1790	3900	5450	5650	5850	6480	6680
Operating Weight (Stainless Steel)		kg	1935	1985	4150	6125	6330	6530	7310	7510
Shipping Weight (Titanium)		kg	1570	1580	2820	4845	5050	5150	5740	5940
Operating weight (titanium)		kg	1730	1655	3105	5525	5635	5735	6490	6690

Remark:

- 1、Nominal operating conditions: Source water inlet/outlet temperature is 12°C/7°C; hot water inlet/outlet temperature is 40°C/45°C.
- 2、Evaporator and condenser water-side pressure rating: 1.0 MPa, with flange connections conforming to standard HG/T20592. If the operating pressure exceeds 1.0 MPa, it must be specified when placing the order.
- 3、Due to product improvements and optimizations, the above parameters may be subject to change. Please refer to the software selection and actual product for final specifications.

PARAMETER SELECTION

XLMC-HN Series Magnetic Levitation Variable-Frequency Centrifugal Heat Pump Unit (for Aquaculture Use)

Unit model		XLMC	75HN	85HN	170HN	200HN	230HN	250HN	400HN	450HN	500HN	550HN	600HN	650HN
Heat production		RT	75	85	170	200	230	250	400	450	500	550	600	650
		kW	263.7	298.9	597.7	703.2	808.7	879.0	1406	1582	1758	1934	2110	2285
Input power		kW	31.7	36.5	62.7	65.1	73.8	80.1	130.2	148.4	168.1	179.1	199.0	221.0
Heating(COP _h)		W/W	8.33	8.18	9.54	10.81	10.96	10.98	10.80	10.66	10.46	10.80	10.60	10.34
Motor configuration power		kW	80	80	132	135	135	135	280	280	280	320	320	320
The rated current of the unit		A	52.2	60.3	103.4	107.3	121.8	132.1	214.9	244.9	277.3	295.4	328.4	364.7
The maximum operating current of the unit		A	57.5	66.3	113.7	118.1	134.0	145.4	236.4	269.4	305.0	325.0	361.2	401.2
Evapora tor	Version		Full liquid evaporator											
	Water flow	m ³ /h	39.9	45.1	92.0	109.8	126.4	137.4	219.5	246.6	273.5	301.8	328.6	355.1
	Water side pressure drop	kPa	72	65	69	70.0	79.3	85.1	85.0	81.1	71.2	77.7	83.9	91.0
	Take over the path	mm	DN100	DN100	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN250	DN250	DN250
condens er	Version		Shell and tube heat exchangers											
	Water flow	m ³ /h	45.4	51.4	102.8	121.0	139.1	151.2	241.9	272.1	302.4	332.6	362.9	393.1
	Water side pressure drop	kPa	72.1	53.5	69.2	59.9	61.8	77.2	76.0	72.4	66.3	71.2	76.3	82.1
	Take over the path	mm	DN100	DN100	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN250	DN250	DN250
Dimensi ons	L	mm	1870	1870	2600	2600	2600	2600	4270	4270	4270	4400	4400	4400
	W	mm	1155	1155	1700	1800	1800	1800	1755	1755	1755	1800	1800	1800
	H	mm	1920	1920	1850	1900	1900	1900	2020	2020	2020	2100	2100	2100
Shipping weight		kg	1680	1700	2980	3480	3500	3525	5170	5350	5360	6100	6220	6240
Running weight		kg	1840	1880	3265	3810	3835	3850	5750	6010	6030	6820	7020	7055

Remarks:

1.Nominal operating conditions: Source water inlet/outlet temperature is 16°C/11°C; hot water inlet/outlet temperature is 25°C/30°C.

2.Evaporator and condenser water-side pressure rating: 1.0 MPa, with flange connections conforming to standard HG/T20592. If the operating pressure exceeds 1.0 MPa, it must be specified when placing the order.

3.Due to product improvements and optimizations, the above parameters may be subject to change. Please refer to the software selection and actual product for final specifications.

PARAMETER SELECTION

XLMC-HT Series Magnetic Levitation Variable-Frequency Centrifugal Heat Pump Unit (Aquaculture Use, Specific Container)

Unit	Rated Input Side Current (A)	Threaded Port on Input Side	Recommended Input Cable Specification (mm")
XLMC75HT	108.5	4* Φ 8	3×95+50
XLMC85HT	121.1		3×95+50
XLMC200HT	268.7	8* Φ 13	3×150+70
XLMC400HT	520.9		2×(3×150+70)
XLMC450HT	566.4		2×(3×185+95)
XLMC500HT	623.2		2×(3×240+120)
XLMC550HT	663.5		2×(3×240+120)

1.In the recommendation table, "2×(3×185+95)" means that each phase copper busbar should be connected with two cables of the same specification—totalling six 185 mm² cables and two 95 mm² cables.

2.The cable length should not be excessive. If the voltage drop exceeds 2%, reselect cable specifications based on the unit’ s operating current.

3.Pay attention to the size of cable lugs to ensure electrical clearance complies with standards.

XLMC-HN Series Magnetic Levitation Variable-Frequency Centrifugal Heat Pump Unit (for Aquaculture Use)

Unit	Rated Input Side Current (A)	Threaded Port on Input Side	Recommended Input Cable Specification (mm")
XLMC75HN	57.5	4* Φ 8	3×70+35
XLMC85HN	66.3		3×70+35
XLMC170HN	113.7	8* Φ 13	3×95+50
XLMC200HN	118.1		3×95+50
XLMC230HN	134.0		3×95+50
XLMC250HN	145.4		3×95+50
XLMC400HN	236.4		3×150+70
XLMC450HN	269.4		3×150+70
XLMC500HN	305.0		3×150+70
XLMC550HN	325.0		3×185+95
XLMC600HN	361.2		3×240+120
XLMC650HN	401.2		2×(3×120+70)

1.In the recommendation table, "2×(3×120+70)" indicates that each phase copper busbar should be connected with two cables of the same specification—totaling six 120 mm² cables and two 70 mm² cables.

2.Cable lengths should not be excessive. If the voltage drop exceeds 2%, reselect cable specifications based on the unit's operating current.

3.Pay attention to the cable lug dimensions to ensure the electrical clearance meets the required standards.

WATER HEATING AND COOLING SOLUTIONS



GREENHOUSE CULTIVATION



Aquaculture Industry Background

Factory-style aquaculture is typically divided into winter and summer operations, with varying temperature requirements based on the developmental stage of the fish. For example, in winter, juvenile fish require water temperatures between 15-21°C, while adult fish need 25-31°C. In summer, the temperature should be maintained between 25-31°C for all stages. As a result, many sectors in aquaculture are now restricted from using coal boilers. Instead, they're turning to water source heat pumps (utilizing seawater or freshwater sources) to meet both winter heating and summer cooling needs—achieving high efficiency, energy savings, and carbon reduction goals.

Project requirements

The most primitive way of greenhouse planting is to store heat with closed natural lighting, but this method is very susceptible to weather changes and extreme weather. The use of boilers, electric heaters and other equipment usually requires a large amount of burning coal, straw, natural gas, diesel, etc. for heating, and special personnel are needed to be on duty to control the temperature in the greenhouse at any time, and it is also necessary to prevent the occurrence of boiler safety hazards. Nowadays, the use of heat pump systems to heat greenhouses is a new way of energy conservation and emission reduction, bringing real convenience to thousands of farmers.

User group requirements

High efficiency and energy savings significantly reduce operating costs

Environmentally friendly, minimizes pollution

Easy to operate with convenient maintenance

Stable unit performance with reliable quality and long service life

User group requirements

High efficiency and energy saving with low heating costs

Constant temperature and humidity suitable for various application scenarios

Advanced intelligence and user-friendly installation

Stable operation, reliable quality, and long service life of the unit

Solution Advantages



Efficient and energy-saving

Dual first-class energy efficiency, 70% more energy-saving than traditional boilers



Scientific temperature control

Proactive temperature control, more precise outlet water temperature control



Stable and reliable

Compressor direct drive + symmetrical layout technology, less vibration



Waste heat recovery

Recover waste heat, upgrade it through a heat pump, and then supply it for production and daily use.



Smart Farming

Proactive temperature control, more precise outlet water temperature control



Tailor-made

Customized according to customer requirements

Solution Advantages



Efficient and energy-saving

Dual first-class energy efficiency, up to 70% more efficient than traditional boilers



Scientific temperature control

Fine-tuned regulation to help crops match optimal temperature requirements



Stable and reliable performance

Compressor direct drive + symmetrical layout technology ensures minimal vibration



Waste heat recovery

Captures excess heat and upgrades it via heat pump for productive and domestic use



Intelligent heating

Remote smart monitoring, fully automatic and unattended—saves time and labor



Customized solutions

Tailored based on customer's farming type, water source and quality, temperature needs, and process requirements