



# 离心式压缩机

## Centrifugal Compressor



高效 节能 可靠 环保

High efficiency, Energy saving, Reliable, Environmental protection

上海爱钧实业有限公司

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本册所含机型型号参数外观如有改动恕不另行通知如有疑问请拨打官方电话咨询!

The models, parameters and appearance of any products contained in this manual are subject to changes without prior notice. In case of any questions, please call the official number.

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## 专注行业 始终如一

Focus on the industry consistently

## 先进技术 质量卓越

Advanced technology of excellent quality

## 节约能耗 降本增效

Save energy, reduce cost and increase efficiency

## 结构紧凑 安装随心

Compact installation follow the heart

## 安装简单 运行快捷

Easy to install and quick to run



### Company Profile | 公司简介

爱钧 Kingair, 隶属于上海爱钧实业有限公司, 是压缩空气系统方案的核心技术解决商, 在产品体系、核心技术和方案解决三大领域拥有成熟运营经验和卓越品牌口碑。

公司综合实力雄厚, 厂区位于上海嘉定, 占地面积 30000 平方米, 具有强大的设备生产能力。在 20 年的运营发展过程中, 公司始终秉承“专业、创新、节能、服务”的企业精神, 深度践行环保、低碳的战略方针, 实现高智能、高效率的空压系统产业链建设。在压缩空气系统方案领域内, 公司强化技术研发、拓展企业实力, 匠心开发高压无油和微油螺杆式空气压缩机、离心式空气压缩机、螺杆真空泵等系列节能产品, 致力于提供压缩空气整机系统解决方案。

公司技术力量卓越, 在“环保战略”的引领下, 多年来持续创新。依托中国上海的区域优势, 有效打通国际互联网 + 物联网的服务链条, 持续开拓海外市场, 为客户提供 OEM 及个性化定制服务。公司出品的每一款空压机款式新颖、性能先进、质量保证。凭借核心的技术力量、完善的国际品牌配套服务、严苛的质量管理体系、卓越的售后服务保障, 产品通过欧洲 CE、ISO 等认证, 并热销亚、欧、美等 50 余个国家和地区。

以稳健求发展, 以创新求壮大, 以卓越求未来。公司依托总部设未来, 公司将坚守初心、秉承匠心, 延续恒心, 以“创造优质产品、服务全球客户”的理念为国际客户提供高品质空压产品和高效能的空压系统服务!

Shanghai Kingair Industrial Co., Ltd., is the core technology solution provider for compressed air system solutions, with mature operation experience and excellent brand reputation in the three major areas : product system, core technology and solutions.

The company has strong comprehensive strength, the factory is located in Jiading, Shanghai, covers an area of 30000 square meters, has a strong equipment production capacity. In the course of 20 years of operation and development, we have always adhered to the enterprise spirit of "professionalism, innovation, energy saving and service", deeply implemented the strategic policy of environmental protection and low carbon, and realized the construction of high intelligent and efficient air pressure system industry chain.

In the field of compressed air system solutions, we strengthen technology research and development, expand the strength of enterprises, and ingeniously develop a series of energy-saving products such as high-pressure oil-free and micro-oil screw air compressors, centrifugal air compressors and screw vacuum pumps. In addition, we are committed to providing compressed air system solutions.

We have excellent technical strength and have been innovating continuously for many years under the guidance of the "environmental protection strategy". Relying on the regional advantages of Shanghai, China, we effectively open up the international Internet + Internet of things service chain, continue to open up foreign markets, and provide customers with OEM and personalized customized services. Each type of air compressor produced by us has novel style, advanced performance and quality assurance.

With the core technical force, perfect international brand supporting services, stringent quality management system, excellent after-sales service guarantee, our products have passed the European CE, ISO and other certification, and sold well in more than 50 countries and regions, such as Asia, Europe and the United States.

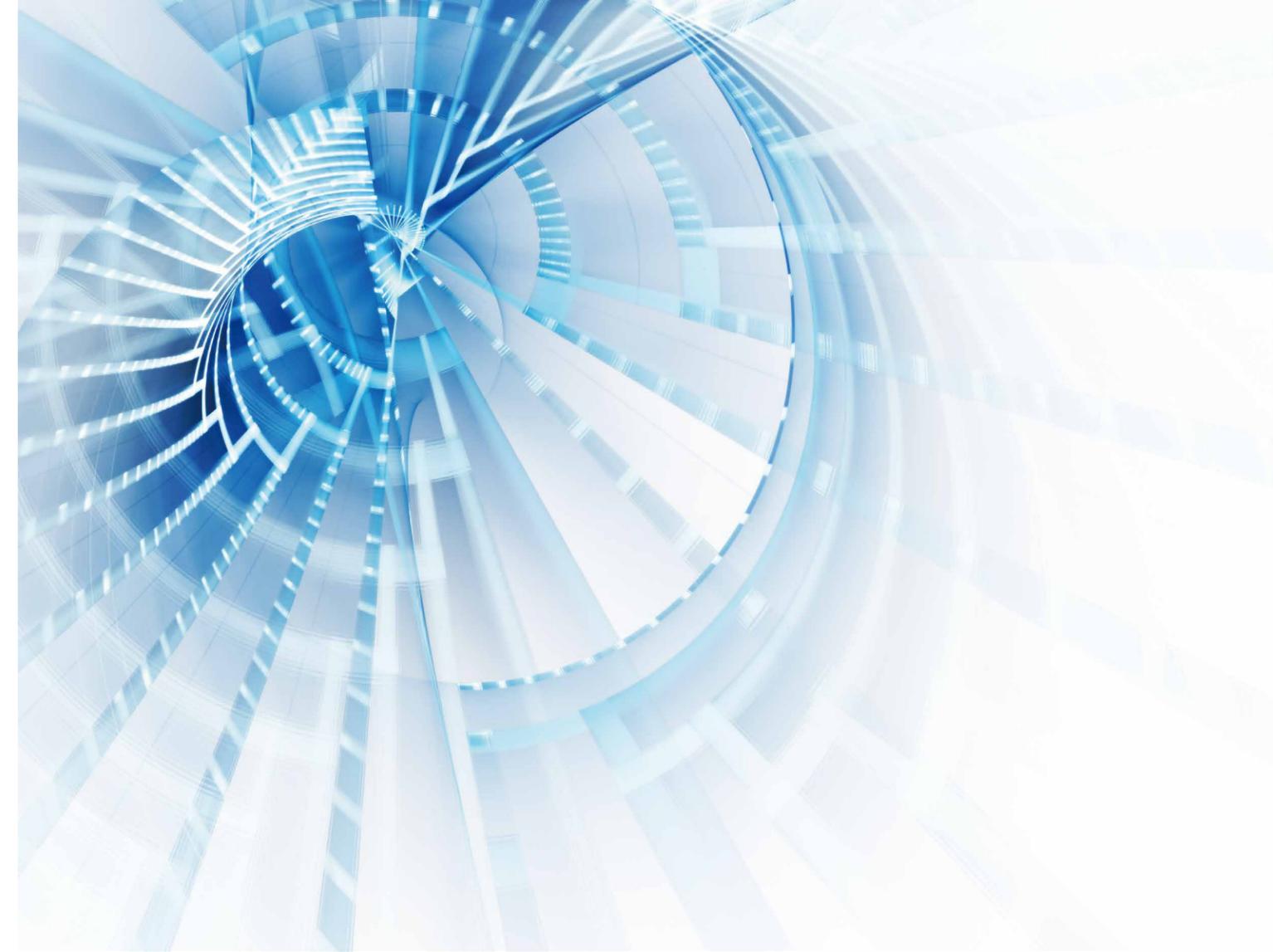
We pursue development with steadiness, growth with innovation, and future with excellent quality. We rely on the headquarters for construction. In the future, the company will adhere to the original idea, uphold the ingenuity, continue to persevere, to "create quality products, serve global customers" concept to provide international customers with high-quality air pressure products and high-efficiency air pressure system services!

## 食品级气源配置 Food-grade air source

## 产品特点及优势 | Product Features and Advantages

离心式压缩机具有优良的机械结构设计，能够确保在最小维护工作量下提供连续稳定、无油、高品质的压缩空气，其高效率的运转能充分满足多种工艺流程和工厂用空气系统的需要。

Centrifugal compressors has excellent structural design to provide continuous, stable, oil-free and high quality compressed air within minimum maintenance workload. Its high efficiency can fully meet the need of various processes and air systems in factories.



### 节能高效

Energy saving and high efficiency

气动优化、高效传动  
Pneumatic optimization, efficient transmission

### 高可靠性

High reliability

整体铸件、精密加工  
Integral casting, precision machining

### 智能控制

Intelligent control

配置高端、无人值守  
High-end configuration, unattended

### 无油品质

Oil-free quality

无油设计、无油认证  
Oil-free design, oil-free certification

### 低维护成本

Low maintenance cost

核心部件全产业链制造  
The whole industrial chain manufacturing of core components

### 全球服务

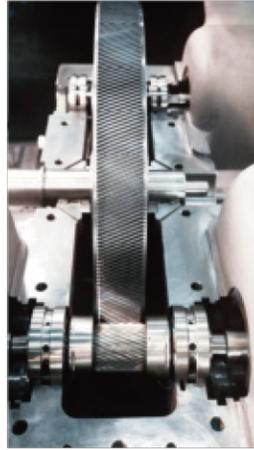
Global service

全球网络、专业团队  
Global network, professional team

**超长寿命齿轮系统 Ultra-long life gear system**

从毛坯、加工、热处理到精密磨削及检测的全套高标准工艺，质量遵照美国航空级标准，齿轮精度达到 AGMA13 级，确保了齿轮啮合和传动的高效可靠；并具有极好互换性，低速轴和高速轴采用止推环设计，有效地将轴向载荷传递给低速大齿轮，从而极大降低机械损失，使机组传动系统工作高效、稳定、可靠。

From blank, processing, heat treatment to precision grinding and detection of a full set of high standards of technology, quality in accordance with the American aviation standards, gear accuracy reaches AGMA13, to ensure the efficient and reliable gear meshing and transmission; And has excellent interchangeability, low speed shaft and high speed shaft using thrust ring design, effectively transfer the axial load to the low speed big gear, so as to greatly reduce the mechanical loss, so that the unit drive system work efficiently, stable, reliable.



**空气和油密封 Air and oil seal**

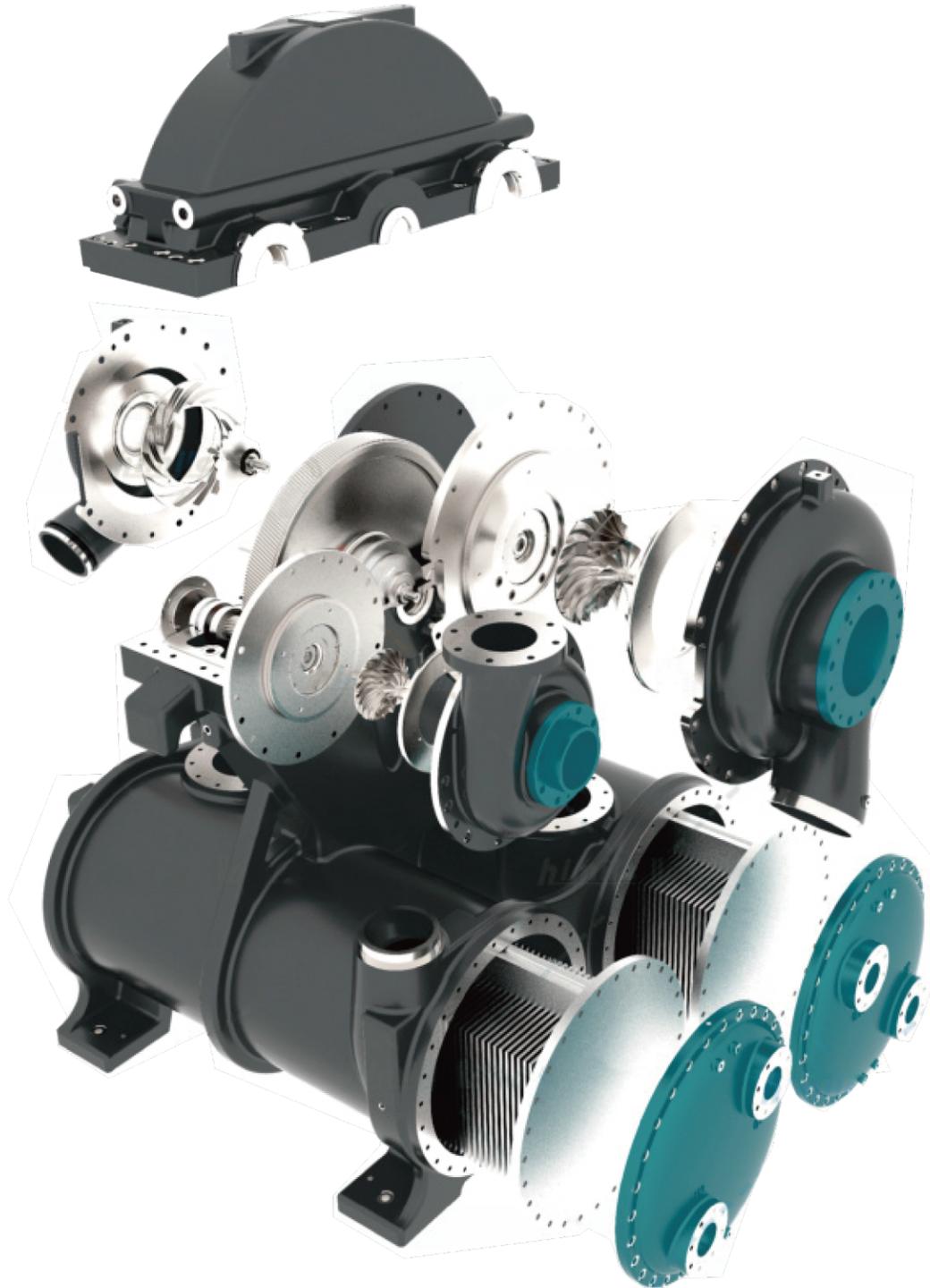
依据工况需求，采用迷宫式气封和油封，或碳环式气封，最大程度减少气体损耗，同时确保了压缩空气在任何工况内均为 100% 无油，达到 ISO Class 0 标准。

According to the requirements of the working conditions, labyrinth type gas seal and oil seal, or carbon ring type gas seal, to minimize the gas loss, while ensuring that the compressed air is 100% oil-free in any working conditions, up to ISO Class 0 standards.

**整体铸件齿轮箱 Integral casting gear box**

齿轮箱可与各级蜗壳、各级冷却器一体铸造、一体加工。与分体式相比较具有主体结构稳定可靠、加工面少、各级蜗壳与齿轮箱冷却器无装配误差、无变形、噪音及振动小等优点。

The gearbox can be integrally cast and processed with all levels of volutes and coolers. Compared with the split type, it has the advantages of stable and reliable main structure, fewer machining surfaces, no assembly errors, no deformation, and low noise and vibration for all levels of volutes and gearbox coolers.



**高性能叶轮 High performance impeller**

叶轮采用航空涡轮发动机叶片钛合金或不锈钢材质，保证叶轮的轻量性和可靠性；研发团队强大的设计能力和丰富的叶轮数据库设计软件，保证了气动设计的优越性；专用五轴机床整体加工，按照航空级加工标准，保证了叶轮加工的精度和整体的强度。

The impeller is made of titanium alloy or stainless steel, which ensures the lightweight and reliability of the impeller. The strong design ability and rich impeller database design software of the R & D team ensure the superiority of pneumatic design; Special five-axis machine tool integral processing, according to the aviation processing standards, to ensure the impeller processing precision and overall strength.



**扩压器 Diffuser**

扩压器采用 CFD 气动设计，保证了机组的气动效率，充分考虑客户使用工况，采用了高可靠性材料整体铣制。

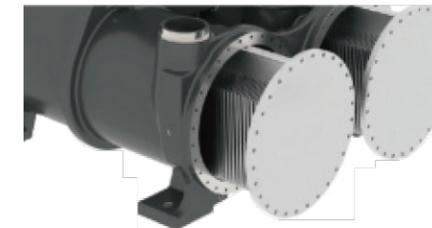
The diffuser adopts CFD pneumatic design to ensure the aerodynamic efficiency of the unit, fully considers the customer's operating conditions, and adopts the integrated milling of highly reliable materials.



**冷却器 Cooler**

使用模块化大容量管列式设计，壳体采用专业防腐设计，管壳翅片有利于提高换热效率。可为客户提供铜、不锈钢等不同材质的冷却器。

Using modular large capacity tubular design, the shell adopts professional anti-corrosion design, and the shell fin is conducive to improving the heat transfer efficiency. Can provide customers with copper, stainless steel and other different materials of the cooler.



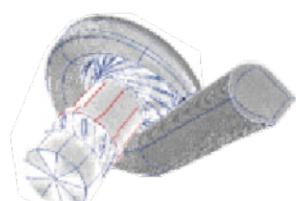
## 高效气动设计 | High Efficiency Aerodynamic Design

KINGAIR 整合了世界顶级的透平产品设计团队，在国外建立了产品研发中心，中心的每一位专家都有着超过 20 年的丰富经验。同时，KINGAIR 在国内整合建立了一支各专业的的设计、研发和装配团队，实现了公司在空气动力学、转子动力学、齿轮传动理论、结构强度理论、外形结构设计、零部件制造检测、机组装配、整机测试等各个领域的技术构建，为“将 KINGAIR 打造成为中国的、世界的全产业链透平机械制造商”的目标奠定了坚实基础。

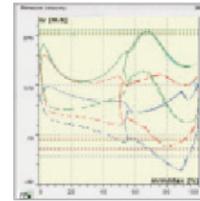
KINGAIR has integrated the world's top turbomachinery design team and established a product R&D center abroad. Each expert has rich experience of more than 20 years in turbomachinery industry. Meanwhile, KINGAIR has also integrated the design, development and assembly team covering each category in China, such that the technical construction of the company has been realized in various fields including aerodynamics, rotor dynamics, gear transmission theory, structural strength theory, external shape and structure design, parts manufacturing and testing, unit assembly and testing, etc. This has laid a solid foundation for our vision to build KINGAIR into a turbomachinery manufacturer of the whole industrial chain in China and the world.



控制截面型线和三维模型  
Control section profile and 3D model



IGV+ 叶轮 + 扩压器 + 蜗壳四气动部件整体网格  
Integral mesh of 4 aerodynamic components  
(IGV+impeller+diffuser+volute)



气流相对速度沿弦向不同叶高分布  
Distribution of relative velocity of gas flow along the chord of different blade heights

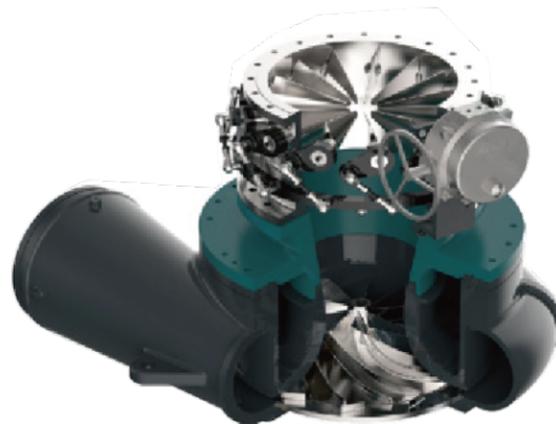
## 各级气动设计 | Aerodynamic Design at All Levels

气动设计涵盖一维热力计算、二维流道设计、三维型线设计和仿真运算，并结合 Fortran 自编程、自主研发的高效建模软件、CFD 分析等手段，确保压缩机的气动设计可靠、精准。

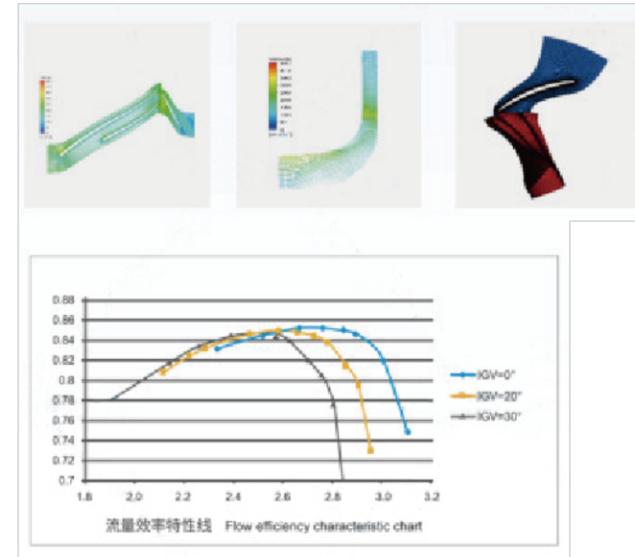
KINGAIR 团队强大的设计能力、丰富的叶轮数据库和设计软件，保证了气动设计的优越性。

The aerodynamic design covers one-dimensional thermodynamic calculation, 2D air passage design, 3D profile design and simulation calculation in combination with Fortran self-programming, independently developed modeling software and CFD analysis. The reliable and accurate aerodynamic design of compressor is ensured.

KINGAIR team has strong design capability, abundant impeller databank and design software to ensure the superiority of aerodynamic design.

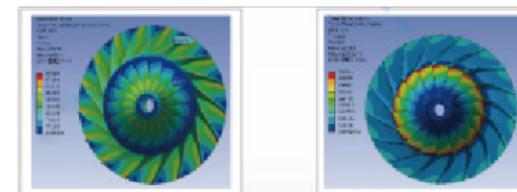


## 核心技术设计 | State-of-the-art Technology Design



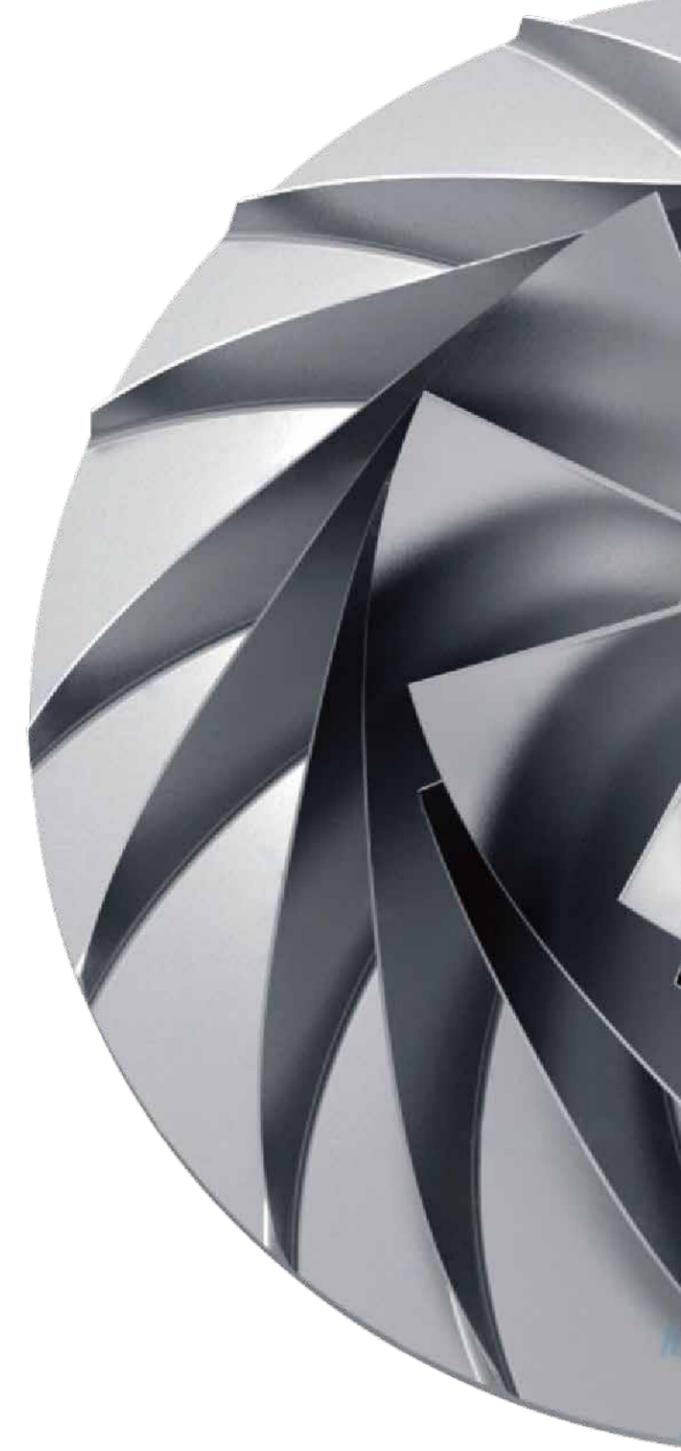
经专业分析机构分析模拟，实现了叶轮在额定转速下的应力分析和变形量的计算。应力分析结果为校核叶轮强度提供了强有力的依据，防止机组在实际运行时因叶轮开裂飞出酿成事故，计算的变形量为叶轮与进气缸间隙的取值提供了参考，防止机组运行时转、定子相互刮伤。

After analysis and simulation conducted by the professional analysis agency, the stress analysis and deformation calculation are realized for the impeller rotating at the rated speed. The stress analysis result provides a strong rationale to check the strength of impeller, so as to prevent the accident caused by the cracking of impeller during the actual operation of the unit. The calculated deformation provides a reference for determining the clearance between impeller and inlet, so as to avoid mutual scratch of rotor and stator during the operation of the unit.



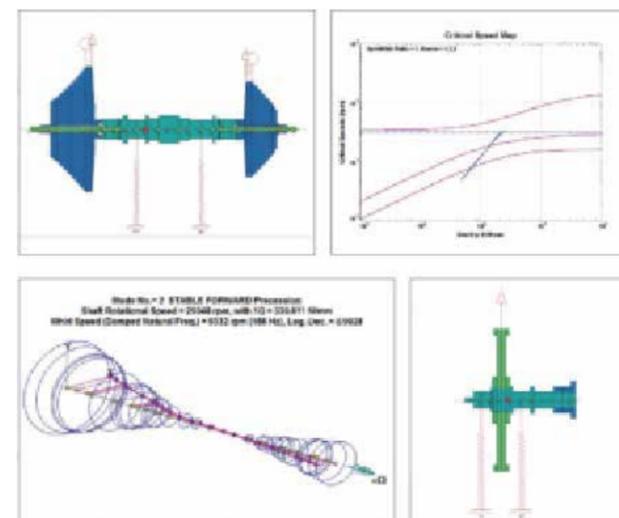
应力计算结果  
Stress calculation result

总变形计算结果  
Total deformation calculation results



运用专业软件进行转子动力学分析与轴承设计。轴承在合理的油膜温度、油膜压力以及油膜厚度下运行，减小轴承消耗的功率。提取轴承的刚度和阻尼，进行转子动力学分析，保证转子合理的振动值、足够的稳定性，且不在临界转速附近运行。

Professional software is used for rotor dynamics analysis and bearing design. Power consumption is minimized in bearing operation with reasonable oil film temperature, pressure and thickness. Rotor dynamics analysis based on stiffness and damping of the bearing helps achieve reasonable vibration value and sufficient stability of the rotor and avoid operation near critical rotation speed.



## 高可靠性轴承 High reliability bearing

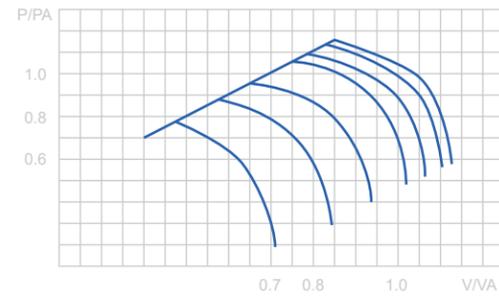
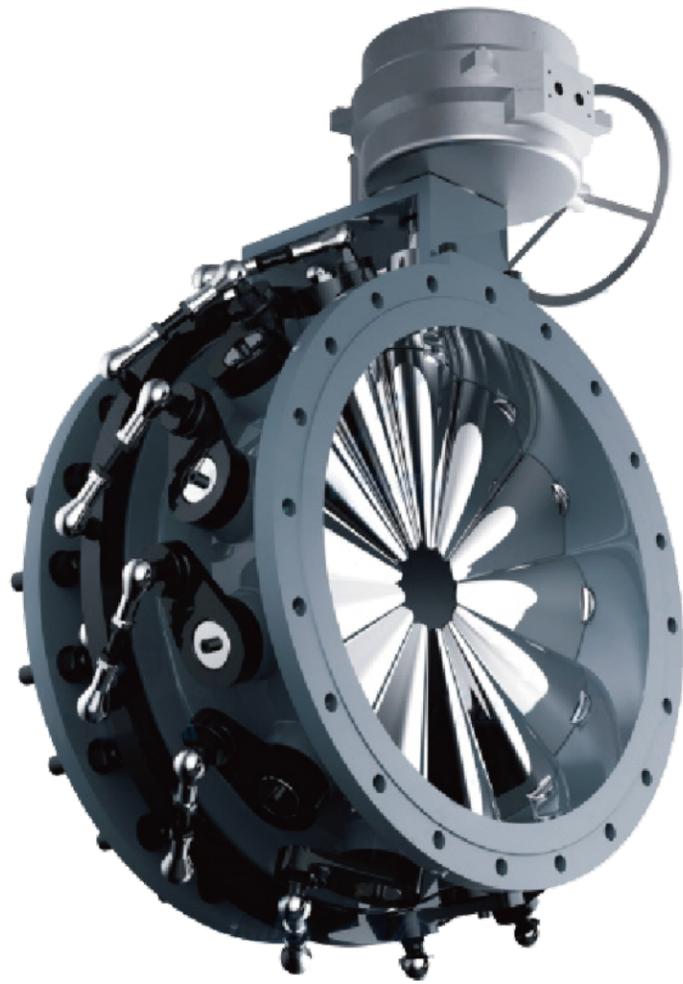
精心设计 稳定可靠  
Elaborate design Stability and reliability



采用专业滑动轴承设计软件，轴承表层采用巴氏合金，提高轴承的使用寿命。转子由可倾瓦轴承支撑，轴瓦根据负荷变化可自动调心。保证机组在应对不同负荷时均能保持机械摩擦损失最小化及最佳工作状态。

Bearing service life is prolonged as much as possible from design with professional slide bearing design software and Babbitt alloy on the surface. With rotor supported by tilting pad bearings and bearing bushes self-aligned to load changes, the mechanical friction loss is minimized and the best working condition is achieved for the unit at different loads.





IGV 控制  
IGV Control

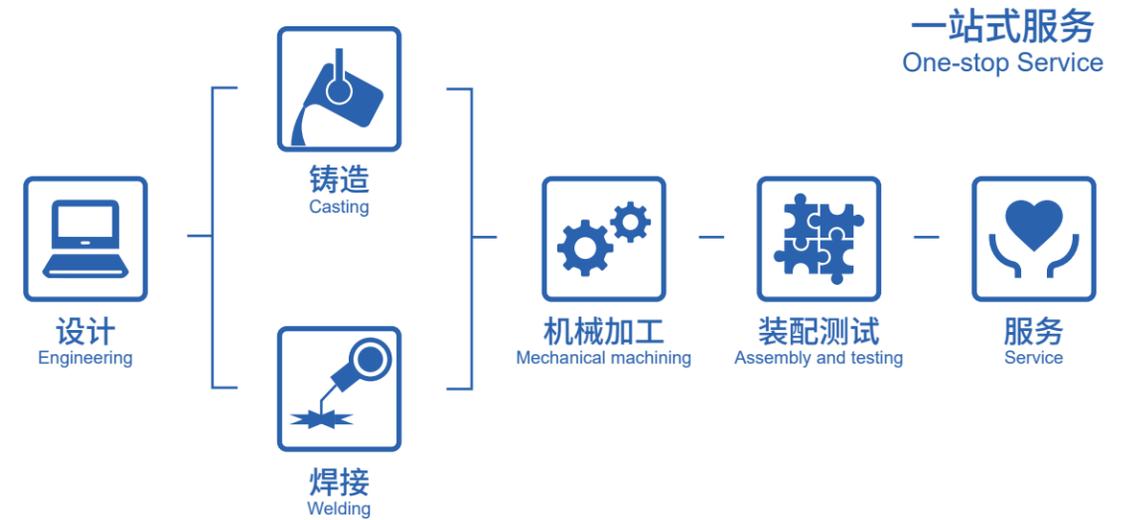


通过对导叶的精确控制，实现流量可调和恒压控制，使离心机高效节能运行。

Flow regulating and constant pressure control is achieved through accurate control of IGV to maintain the high-efficient operation of centrifugal compressor.



五轴加工中心车间  
5-Axis Machining Center Workshop





五轴叶轮加工设备  
Impeller on 5-axis machining center



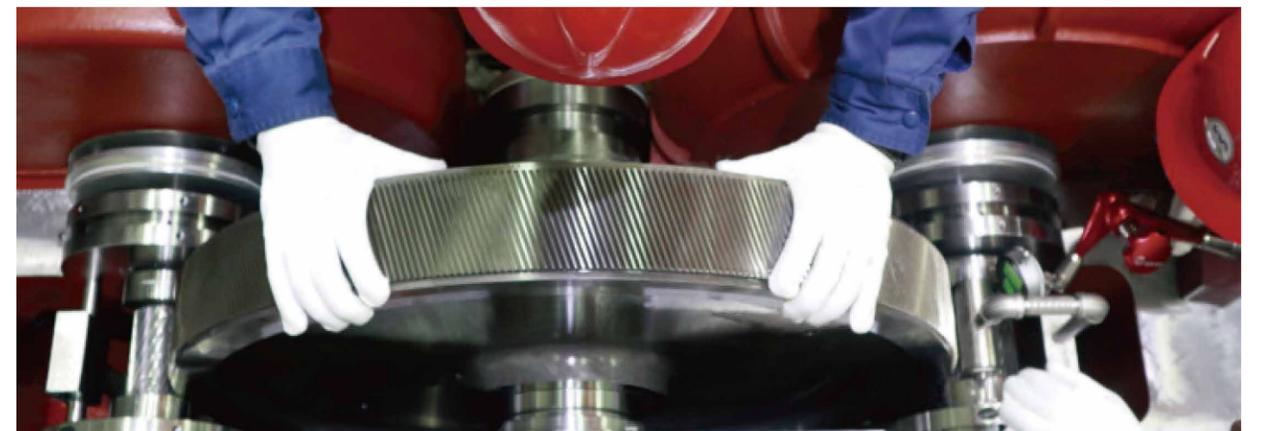
霍夫勒数控磨齿机  
Hofer CNC gear grinding machine



铸造  
Casting



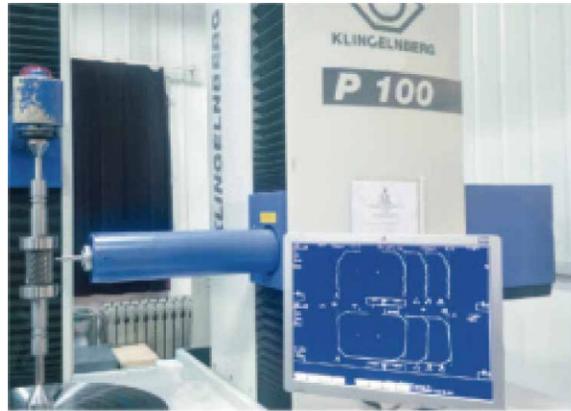
Leitz PMM-G 超高精度三坐标测量仪  
Leitz PMM-G Ultra-high precision CMM



压缩机主机装配  
Compressor air end assembly

KINGAIR 践行“设计开发 - 测试验证 - 运行优化 - 推向市场 - 持续创新”的生产制造理念，实现对气动性能、结构强度、机组换热等关键设计结果的全方位检验和测试，从而保证所开发的离心式压缩机在机组效率、稳定性、可靠性方面具有强大的保障。

We fulfill the production and manufacturing concept of "design & development - test & validation - operation optimization - marketing continuous innovation" and realize comprehensive testing and inspection for the key design results of aerodynamics performance, structural strength and unit heat exchange to guarantee unit efficiency, stability and reliability of centrifugal compressor.



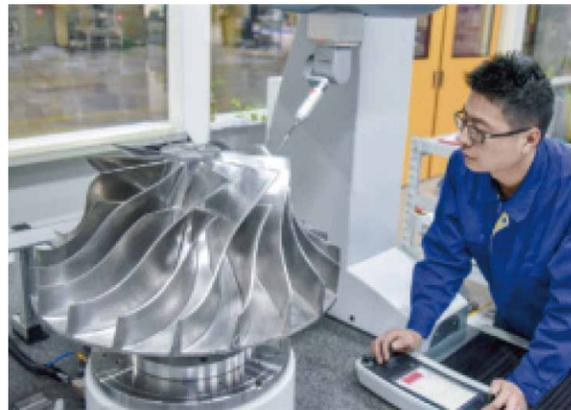
齿轮轴检测  
Gear shaft inspection



齿轮箱三坐标检测  
Gearbox CMM inspection



转子动平衡  
Rotor dynamic balance test



叶轮三坐标检测  
Impeller CMM inspection



测试设备  
TEST  
EQUIPMENT

测试机组  
TEST UNIT

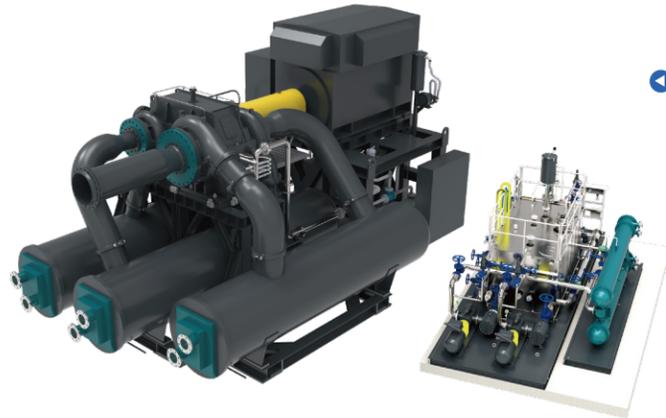
测控室  
MEASUREMENT  
AND CONTROL  
ROOM

测试研发中心  
TESTING R&D CENTER



多轴多级压缩机  
Multi-shaft multi-stage compressor

型号 (Model)	压力 Pressure bar(G)	流量范围 Flow range m <sup>3</sup> /min	额定功率 rated power kW
HM6000	1.8-13	55-100	220-800
HM12000	1.8-13	100-200	315-1250
HM15000	1.8-30	150-250	450-2240
HM25000	1.8-30	220-370	630-3550
HM30000	1.8-30	310-450	800-4500
HM45000	1.8-16	450-700	1250-5000
HM60000	1.8-16	600-1000	1700-7400
HM100000	1.8-16	1000-1600	2600-12000
HM150000	1.8-16	1600-2500	4200-17500
HM200000	1.8-16	2500-3300	6200-23500



增压机 Booster

增压机参数表(空气/氮气) Booster parameter sheet (air/nitrogen)			
流量范围 Flow range	进气压力 Inlet pressure	排气压力 Discharge Pressure	额定功率 Rated power
Nm <sup>3</sup> /h	MPa(G)	MPa(G)	kW
10000-160000	0.3-1.0	1.6-8.5	≤30000

● 定制化气动设计 Customized aerodynamic design

根据使用条件, 定制化气动设计, 保证机器能效。  
According to the usage conditions, customized pneumatic design ensures the energy efficiency of the machine.

● 整体铸件齿轮箱 Integral casting gearbox

主机结构稳定可靠、加工面少、无装配误差、噪音及振动小。  
The main machine has a stable and reliable structure, less processing surface, no assembly errors, and low noise and vibration.

● 航空航天加工标准 Aerospace Processing Standards

核心零部件按照航空航天级别标准全产业链加工, 保证设备稳定性。  
Core components are processed throughout the entire industry chain in accordance with aerospace-level standards to ensure equipment stability.

● 全时段服务响应 Full-time service response

强大的备品备件库存能力和遍布全国的分子公司保证24小时的不断服务响应。  
Strong spare parts inventory capabilities and branch offices across the country ensure 24-hour uninterrupted service response.



单轴多级压缩机  
Single shaft multi-stage compressor

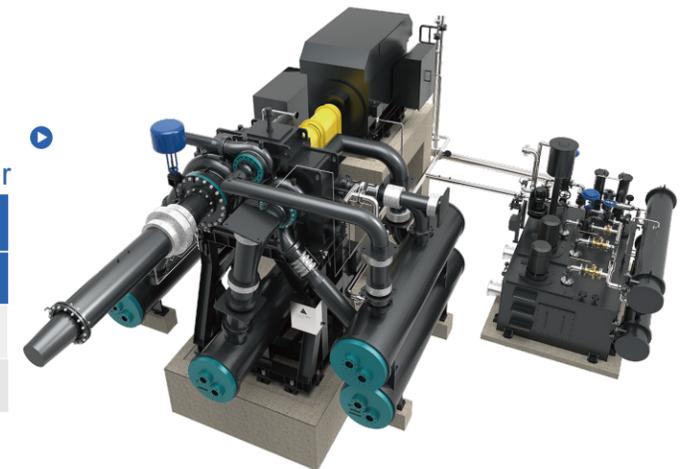
流量范围(Flow range): 90000Nm<sup>3</sup>/h-300000Nm<sup>3</sup>/h

- 半开式/闭式叶轮保证气动及机械性能;  
Semi-open/closed impeller ensures aerodynamic and mechanical performance;
- 多轴齿轮式/单轴布局灵活应对不同的应用场景。  
Multi-axis gear type/single-axis layout flexibly responds to different application scenarios.

- 水平剖分齿轮箱/缸体方便拆卸及更换易损件;  
Horizontally split gearbox/cylinder block facilitates disassembly and replacement of wearing parts;

工艺气压缩机  
Process gas compressor

BGCI、GCI、MA、MS系列工艺气压缩机主要参数 Main parameters of BGCI, GCI, MA, MS series process gas compressors				
结构形式 structure type	压缩级数 Compression level	压比 Pressure proportion	最大出口压力 Maximum outlet pressure	单机组最大功率 Maximum power of single unit
多轴齿式	1~6	1~35	10Mpa (A)	20000KW
单轴	1~7	1~25	15Mpa (A)	30000KW



KINGAIR工艺气压缩机组, 适用于 N<sub>2</sub>、CO<sub>2</sub>、SO<sub>2</sub>、NH<sub>3</sub>、水蒸气、煤气、天然气、合成气、窑炉气等介质的压缩。  
KINGAIR process gas compressor unit is suitable for the compression of N<sub>2</sub>, CO<sub>2</sub>, SO<sub>2</sub>, NH<sub>3</sub>, water vapor, coal gas, natural gas, synthesis gas, kiln gas and other media.

- 根据工况, 单轴、多轴可选;  
Depending on the working conditions, single axis or multi-axis are optional;
- 单轴机组低压采用水平剖分, 高压垂直剖分, 方便维护;  
The single-shaft unit adopts horizontal splitting for low pressure and vertical splitting for high pressure, which facilitates maintenance;
- 实现级间中抽、补气功能, 适应客户现场多种工况需求。  
It realizes the functions of pumping and replenishing air between stages and adapts to the needs of various working conditions at the customer's site.

- 集成化设计, 结构紧凑; Integrated design, compact structure;
- 闭式、半开式全曲线元素三元叶轮, 高效、节能;  
Closed and semi-open full-curve element three-element impellers are efficient and energy-saving;
- 轴向进气, 可带进口调节导叶, 可变转速调节, 流量调节范围广。  
Axial air intake, can be equipped with inlet adjustment guide vanes, variable speed adjustment, wide flow adjustment range.

注(Note): (1) 上机型均可使用整体撬装或水泥基座, 根据现场情况选择。

The above models can be mounted on an integral skid or on a cement base, which can be selected according to the site conditions.

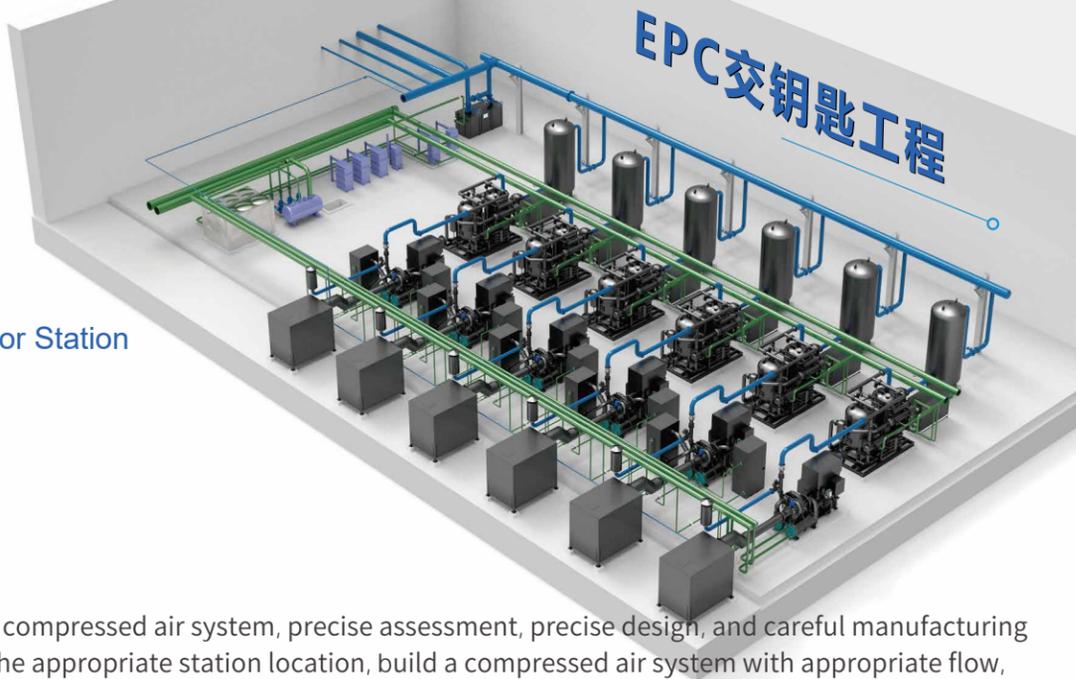
(2) 入口过滤器、润滑油站、物联网系统、IP54以上防护等级电机为可选配置。

Inlet filters, lubricating oil stations, Internet of Things systems, and motors with protection levels above IP54 are optional configurations.

(3) 驱动机电机、汽轮机可选。Driver motor and steam turbine are optional.



智慧压缩空气站  
Intelligent Compressor Station

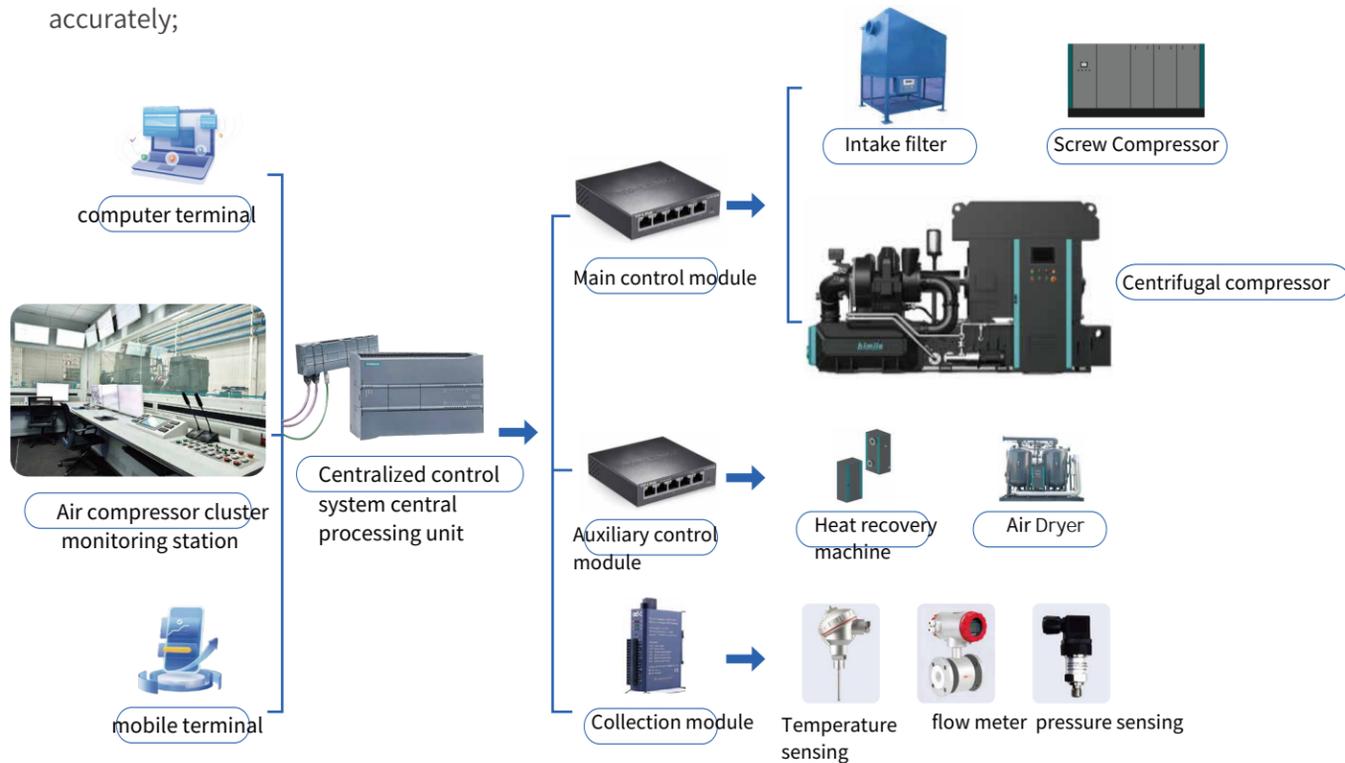


EPC交钥匙工程

Starting from the overall compressed air system, precise assessment, precise design, and careful manufacturing help customers choose the appropriate station location, build a compressed air system with appropriate flow, pressure, and gas quality, help customers formulate accurate and reasonable management plans, and provide customers with Provide one-stop service from design, construction to acceptance, and create an efficient and energy-saving smart compressed air station for enterprises.

### Intelligent control process management

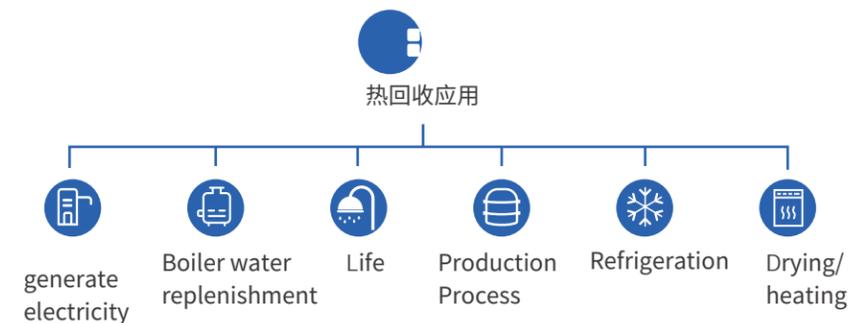
- According to production needs, rationally regulate equipment to reduce energy waste and reduce costs and improve efficiency for enterprises;
- The equipment operating parameters are uploaded to the cloud platform in real time and can be remotely monitored through the mobile app, making the equipment operation safer;
- The equipment operation history data is stored, the operation status curve is displayed, and reports can be automatically printed, so that the equipment usage rate is clear at a glance;
- The equipment can be started and stopped remotely, making remote management more convenient;
- The station process flow is displayed, process data is updated in real time, and production needs are grasped more accurately;



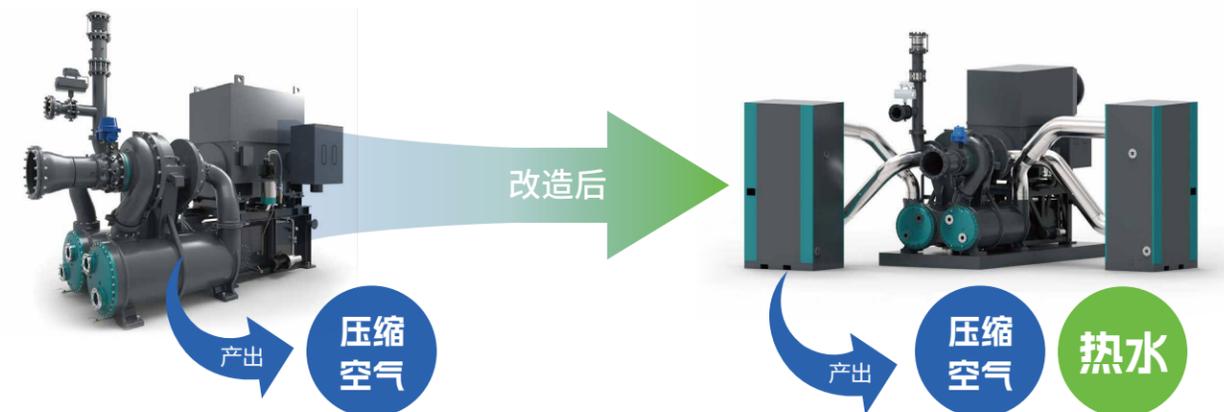
### 空压站能量回收系统 | Heat Recovery System

### Help enterprises reach peak carbon neutrality

As a leader in air compressor energy recovery technology, KINGAIR can tailor-make professional and mature energy recovery system solutions based on the needs of different customers. In actual engineering applications, the recovery rate can reach more than 90% of the shaft power. The recovered heat energy can be widely used in factory production and life, partially or completely replacing the original heating system.



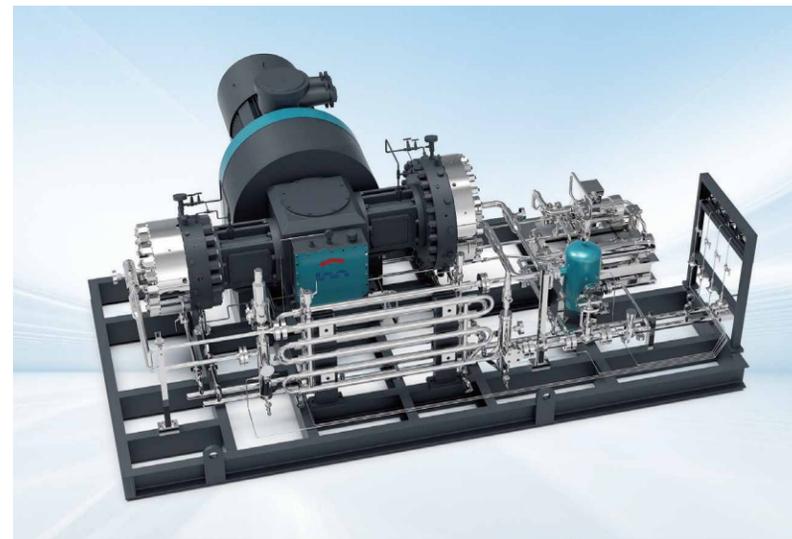
- **Energy saving**  
Get lots of hot water for free and save on other heating costs
- **Reduce emissions**  
Respond to the country's call for energy conservation and emission reduction, and you can receive national energy conservation and emission reduction rewards. It is green and environmentally friendly, a one-time investment, and long-term benefits.
- **Cost reduction**  
The failure rate of production equipment and air compressors is reduced, and maintenance costs are reduced.



## 隔膜式压缩机 | Diaphragm Compressor

Adhering to the design concepts of "safety", "reliability", "efficiency" and "flexibility", KINGAIR has independently developed a full range of high-reliability high-speed reciprocating compressors and diaphragm compressors, providing customers with comprehensive solutions such as compressor and compressor failure analysis, overhaul, upgrades, technical support, and spare parts supply. Solutions and one-stop service.

- 标准化、系列化设计  
Standardized and Serialized Design
- 功率覆盖3-185kW  
Power Range 3-185kW
- 单机最大流量3000Nm<sup>3</sup>/h  
Max. Flow 3000Nm<sup>3</sup>/h per Unit
- 最高压力100MPa  
Max. Pressure 100MPa



## Typical diaphragm compressor parameters

产品型号 Model	容积流量Nm <sup>3</sup> /h Volume Flow	进气压力MPa(G) Inlet Pressure	排气压力MPa(G) Discharge Pressure	机组重量kg Weight	应用领域 Application Areas
GD-1000/16-220	1000	1.4~1.8	22.0	15000	氢气充装 Hydrogen Filling
GD-500/16-220	500	1.4~1.8	22.0	11000	氢气充装 Hydrogen Filling
GD-1000/125-450	1000	5~20	45.0	12000	加氢站 Hydrogen Fueling Station
GD-500/125-450	500	5~20	45.0	10000	加氢站 Hydrogen Fueling Station
GD-200/0.2-15	200	0.02	1.5	17000	工艺流程 Technological Process
GD-1450/11-25	1450	1.1	2.5	9500	工艺流程 Technological Process
GD-250/2-30	250	0.2	3.0	10500	工艺流程 Technological Process
GD-300/10-250	300	1.0	25.0	9400	气体充装 Gas Filling

## 高速往复压缩机 High-Speed Reciprocating Compressor



CHA系列高速往复压缩机



CHD系列高速往复压缩机



CHJ系列高速往复压缩机

- 高转速、低振动  
High speed low vibration
- 结构紧凑  
Compact structure
- 节能减碳  
Energy saving and less carbon emissions
- 撬装灵活  
Flexibility for skid installation
- 最高功率5580kW  
Max. frame power 5580kW
- 最高排气压力42MPa  
Max. discharge pressure 42MPa
- 最高转速1800RPM  
Max. speed 1800RPM
- 最大排气量300万方/天  
Max. discharge volume 3 million m<sup>3</sup>/day

## Typical High Speed Reciprocating Compressor Parameters

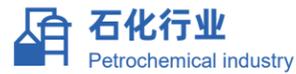
机型 Model	曲轴拐数 Throw	冲程(mm) Stroke	机身功率(kW) Power	转速(RPM) Rotation Speed	活塞杆直径(mm) Dia. of Piston Rod	最大气体杆载(kN) Max. Gas Rod Load
CHA	2/4	76	216/432	600~1800/750~1800	28.5	58
CHB	2/4	90	300/600	900~1800	35	66
CHD	2/4	90	450/900	900~1800	40	90
CHE	2/4	127	1000/2000	750~1500	51	175
CHF	2/4	152.5	1350/2700	600~1200	57.2	231
CHG	2/4/6	152.5	1350/2700/4050	600~1200	63.5	289
CHJ	2/4/6	178	1860/3720/5580	450~1000	70	334
CHK	2/4	152.5	2250/4500	450~1200	70	334

## 产品应用业绩 | Product application performance

KINGAIR 出厂产品严格按照 ISO 9001 质量认证及 ISO14001 的环境认证标准进行设计和生产,从而保证产品的高可靠性和高效运行。KINGAIR 离心式压缩机客户遍及各行业:石化、汽车、生物发酵、冶金、纺织、玻璃、电子、化工、建材、橡胶、空分等,且已出口中亚、东南亚、欧洲、南美洲。为客户提供全球化的产品服务,帮助客户发展和成功,创造节能未来。

KINGAIR products are designed and manufactured strictly in accordance with ISO9001 and ISO14001 so as to ensure high reliability and high efficient operation.

The clients of KINGAIR centrifugal compressors cover various industries, e.g., petrochemical, automobile, biological fermentation, metallurgical, textile, glass, electronic, chemical, construction material, rubber, air separation industry, etc. The products have been exported to Central Asia, Southeast Asia, Europe and South America. We provide globalized products and services for customer, help customer to develop and succeed, and create energy-saving future.



**石化行业**  
Petrochemical industry



**汽车/制造行业**  
Automobile/mechanical  
manufacturing industry



**化工行业**  
Chemical industry



**纺织化纤行业**  
Textile and chemical fiber  
industry



**空分行业**  
Air separation industry



**生物发酵行业**  
Biological fermentation  
industry



**玻璃行业**  
Glass industry



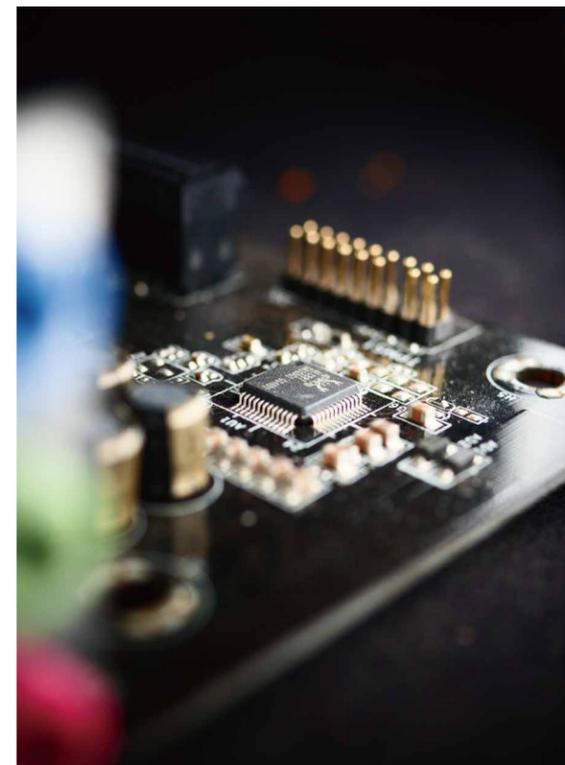
**金属冶炼行业**  
Metallurgical industry



**橡胶行业**  
Rubber industry



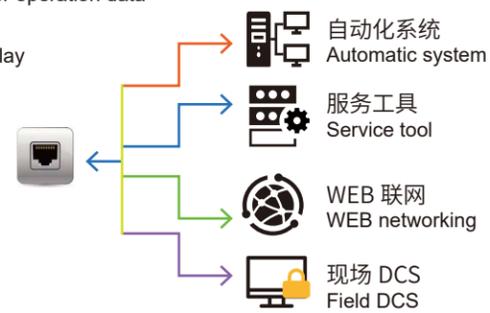
**电子行业**  
Electronics industry



# 系统智能化 System Intelligence

## 方便的WEB联网功能 | Convenient WEB networking function

- 事件记录及运行趋势
- 压缩机运行数据定期生成
- 无需专门软件
- 支持中文 / 英文显示
- Event recording and operation trend
- Regular generation of compressor operation data
- No specialized software required
- Support for Chinese/English display



## 智能离心机控制系统 | Intelligent centrifuge control system

集成化的控制系统柜，极大地提高了易用性和可靠性。采用西门子 PLC 及液晶显示屏，将喘振控制及节能优化完美结合，同时将各级关键参数实时以运行趋势曲线及数字的方式呈现，保证设备运行的可靠性、节能性。

The integrated control system cabinet greatly improves the ease of use and reliability. Siemens PLC and LCD screen are used to perfectly combine surge control and energy saving optimization. Meanwhile, key parameters at all levels are presented in real-time by running trend curve and digital way to ensure the reliability and energy saving of equipment operation.

### 先进的防喘振系统 Advanced anti-surge system

自动双重控制模式  
Automatic dual control mode

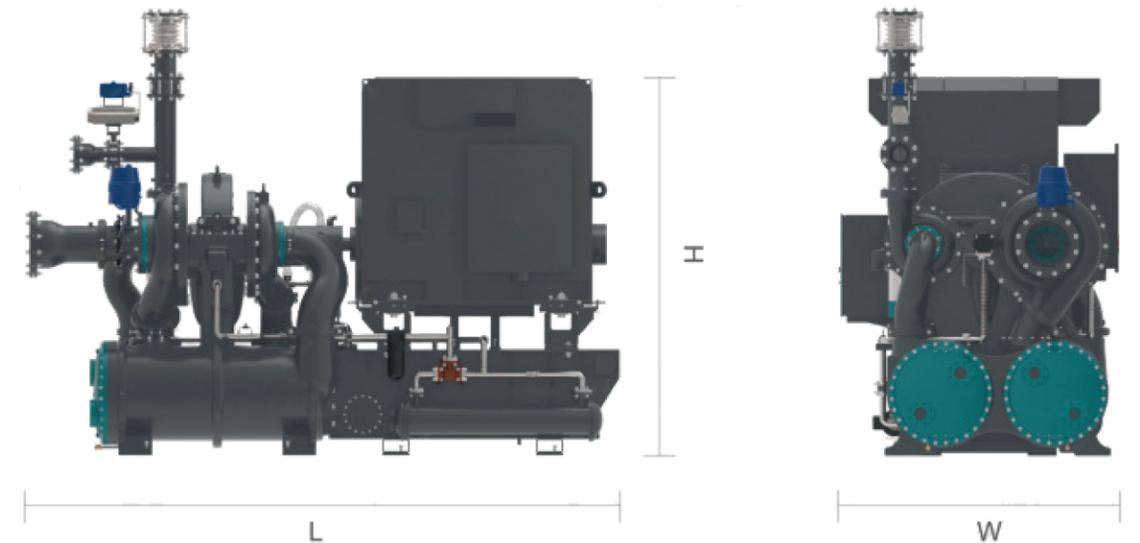
恒压流量控制模式  
Constant pressure flow control mode

多机组联控及远程控制  
Multi-unit joint control and remote control



## 产品参数选型 | Product parameter selection

全方位的机型选择及参数范围，为客户提供各种压力和气量的机型。  
Full range of types and parameters with various pressure and flow.



## 离心压缩机 (空气/氮气) Technical parameters of centrifugal compressor (Air/Nitrogen)

型号 Model	压力 Pressure	流量范围 Flow range	电机功率 Motor power	外形尺寸 Overall dimension			重量 Weight
				L(mm)	W(mm)	H(mm)	
HM6000	1.2-16 barg	55-100 m <sup>3</sup> /min	250-450 kW	3600	1800	1900	8200 kg
HM7200	1.2-16 barg	95-200 m <sup>3</sup> /min	315-1200 kW	3900	2000	2250	10300 kg
HM12000	1.2-16 barg	118-255 m <sup>3</sup> /min	350-1500 kW	4300	2000	2300	11100 kg
HM15000	1.2-16 barg	200-310 m <sup>3</sup> /min	550-1800 kW	4350	2100	2700	12500 kg
HM20000	1.2-16 barg	280-425 m <sup>3</sup> /min	710-2500 kW	5200	2400	3300	17500 kg

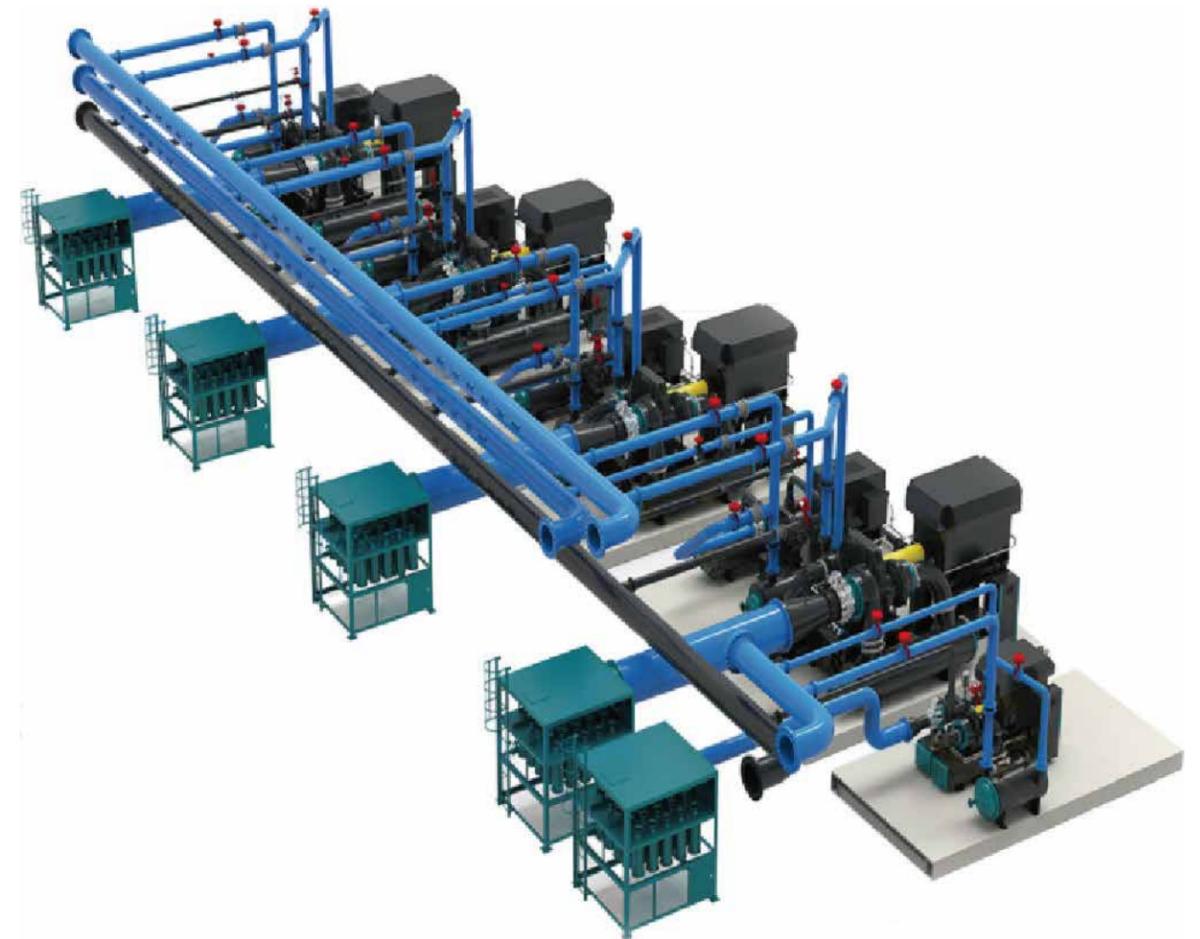
离心压缩机 (空气/氮气) Technical parameters of centrifugal compressor (Air/Nitrogen)

型号 Model	压力 Pressure	流量范围 Flow range	电机功率 Motor power	外形尺寸 Overall dimension			重量 Weight
	barg			L(mm)	W(mm)	H(mm)	
HM30000	1.2-25	410-700	1100-4000	7500	2600	3100	27000
HM50000	1.2-25	620-1000	1700-5500	8100	4000	3700	38000
HM72000	1.2-30	800-1600	2200-9000	12000	5000	5300	65000
HM100000	1.2-10	1000-2000	2800-11000	15000	6200	6000	80000



离心压缩机 (空气 / 氮气)  
HM6000-HM100000 系列  
Centrifugal compressor (air/nitrogen)  
HM6000-HM100000 series

单轴多级压缩机  
Single shaft with multiple stages  
流量范围 1500m<sup>3</sup>/min-4000m<sup>3</sup>/min  
Flow rate 1500m<sup>3</sup>/min to 4000m<sup>3</sup>/min



空分离心压缩机 (增压机) Technical parameters of air separation centrifugal compressor (Turbo Charger)

型号 Model	进气压力 Intake pressure	流量范围 Flow range	排气压力 Exhaust pressure	电机功率 Motor power	外形尺寸 Overall dimension			重量 Weight
	MPa		MPa		L(mm)	W(mm)	H(mm)	
HM4000-B	0.3-1.0	347-550	1.6-5.0	1250-1930	5500	3600	3500	30000
HM6500-B	0.3-1.0	530-920	1.6-5.0	1870-3230	6300	3800	3960	35000
HM10000-B	0.3-1.0	830-1660	1.6-5.0	2900-5720	7200	4500	4380	45000
HM20000-B	0.3-1.0	1780-3000	1.6-5.0	7100-10800	9000	6000	5880	60000



## KINGAIR备件供应体系 | Supply System For Spare Part

拥有强大的备品备件库存能力，包括部分电机、铸件、进气缸、叶轮、轴承、气封、油封等核心件，以及常规空滤、油滤、齿轮油、密封件等。24小时不间断服务响应。强大有序的物流体系确保各分公司、办事处及经销代理能迅速将备件及时提供给客户，并提供全面的售后服务。

We have strong inventory capacity for spare parts, including both core components (such as some motors, casting, inlet, impeller, bearing, gas seal, oil seal, etc.) and common parts (i.e. air filter, oil filter, gear oil, sealing parts, etc).

We provide 24-hour service and response Our strong logistics system enables each branch, office and distributor to provide spare parts and comprehensive after-sales service to customers in a timely manner.