



『台湾权伟』 新能源空压机

TAIWAN QUAN WEI NEW ENERGY AIR COMPRESSOR

全系列可選配 台湾進口壓縮機

FULL RANGE OPTIONAL

COMPRESSOR IMPORTED

FROM

TAIWAN



中外合资

quan wei
air compressor,
product manual

ISO 9001





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“羁鸟恋旧林，池鱼思故渊”，虽然身在台湾，但洪权永董事长从未忘记自己是一名中国人！他时刻渴望着有朝一日能回到祖国母亲的怀抱，渴望着能以自己的专长为祖国的发展贡献力量，渴望着自己的祖国更加繁荣富强。中国梦，就是他的梦！2014年，他毅然踏上了祖国大陆的土地，在国家高新技术产业基地、长江三角洲中心城市苏州成立了权伟机械(江苏)有限公司，专业从事空气压缩机的研发、生产与销售。2018年又在安徽芜湖建立面积两万多平方的工厂。专门用来空气压缩机的生产制造。

三十多年来，洪权永董事长带领自己的科研团队，凭着吃苦耐劳的精神和创新发展的理念，得到了业界的充分肯定，研发出一代又一代空压机产品，涉及钢铁、冶金、电子、化工石油、食品医疗、汽车制造等领域，产品有多项创新，获得多项专利。旗下有多个品牌，8大系列，远销海内外。

让空压机成为一种艺术，一种完美的工艺，为节能环保我们一直在路上。

“乘风破浪会有时，直挂云帆济沧海。”洪权永董事长牢记自己是一个中国人的使命，不忘初心，砥砺前行，立志打造一个“made in China”的世界级空压机品牌！

Born in 1952 in the beautiful island of China, Kaohsiung City, Taiwan Province, is currently Chairman of the China Quan Wei Group. From an early age, he had a strong interest in mechanical manufacturing and a very high talent. After graduating with honors, he entered Japan, and became a senior engineer. As a result of his diligence and hard work, he soon accumulated rich experience in the field of air compressors and achieved remarkable results. At the moment, a strong sense of national mission in his heart, must have first-class technology, in order to achieve first-class brand! In 1986, he began his own road of entrepreneurship, the establishment of Taiwan Quan Wei Machinery Co., Ltd. Companies with strong strength and Germany gu, Taiwan HANBELL and high-end electronics technology to develop high-performance, screw air compressor, truly quiet, energy-saving, efficient!

"The cage bird loves the old forest, and the pond fish thinks of its past." Although he is in Taiwan, he has never forgotten that he is a Chinese! He is eager to return to the embrace of his mother someday, eager to contribute to the development of the motherland with his own expertise, and yearning for his motherland to be more prosperous and strong. Chinese Dream, it's his dream! In 2014, he resolutely set foot on the land of the motherland, set up Quan Wei Machinery (Jiangsu) Co., Ltd in Suzhou, the central city of the Yangtze River Delta, specializing in the R&D, production and sales of air compressors. In 2018, more than 20,000 square meters of factories were built in Wuhu, Anhui Province. It is specially used for the manufacture and research of air compressor.

Over the past 30 years, Chairman Hong Quanyong has led his own scientific research team, with the spirit of hard work and the concept of innovation and development, and has been fully affirmed by the industry, and has developed generation after generation of air compressors. Related to iron and steel, metallurgy, electronics, chemical and petroleum, food medicine, automobile manufacturing and other fields, obtained a number of patents. There are many innovations in the product. There are a number of brands under the 8 series, sold at home and abroad.

Let the air compressor become a kind of art, a kind of perfect craft, in order to save energy and protect the environment, we have been on the road all the time.

"when you ride the wind and waves, sometimes you hang up your sails to help the sea." Hong Quanyong Chairman bear in mind that he is a Chinese mission, do not forget the initial ideals and aspirations, honed forward, determined to create a "made in China" world-class air compressor brand!

企业文化

ENTERPRISE

CULTURE

权伟价值观

企业以员工为本员工与企业共荣

【诠释】

员工是企业生存发展的主体，是企业存在的根本。尊重人，关心人，激发人的热情和积极性，满足员工的合理需求，是企业具有生机与活力的源泉。

企业要牢固树立以人为本的思想，用明确的目标鼓舞人，用宏伟的事业凝聚人，用科学的机制激励人，用优美的环境培育人。要努力开发人力资源，激发员工的积极性、创造性和团队精神。

企业是员工生存的家园，施展才能的沃土，报效祖国和家庭的载体。公司振兴，为我们带来光荣；公司衰退，给我们带来耻辱。荣辱与共，风雨同舟，维系着员工与企业的共同命运，将员工价值与企业蓬勃发展统一在一起。

员工要努力转变观念，提高思想素质，增强技术和业务能力，适应日益激烈的市场竞争环境。要恪守职业道德，立足本职岗位，用我们的智慧和力量，为社会提供优质服务，为行业客户提供一流的产品服务，为企业振兴和个人价值的实现尽职尽责，努力形成企业发展我发展、社会满意我满意的和谐局面。



Quan Wei Values

Employees as the basis of the enterprise and the enterprise common prosperity

[Interpretation]

Employees are the main body of the survival and development of enterprises, is the root of the existence of enterprises. Respect people, care for people, stimulate people's enthusiasm and enthusiasm, meet the reasonable needs of employees, is the source of vitality and vitality of enterprises. Enterprises should firmly establish the idea of people-oriented, with clear goals to inspire people, with magnificent cause to unite people, with scientific mechanism to encourage people, with beautiful environment to cultivate people. We should strive to develop human resources and stimulate the enthusiasm, creativity and team spirit of our employees.

The enterprise is the home of the staff's survival, the fertile soil of exerting ability, and the carrier of serving the motherland and the family. The revitalization of the company brings us glory; the recession of the company brings shame to us. With the same wee and woe, it maintains the common destiny of employees and enterprises, and unifies the value of employees with the vigorous development of enterprises.

Employees should strive to change their ideas, improve their ideological quality, enhance their technical and business capabilities, and adapt to the increasingly fierce market competition environment. We should strictly abide by professional ethics, base ourselves on our position, use our wisdom and strength to provide high quality services to the society, provide first-class products and services to customers in the industry, and fulfill our responsibilities for the revitalization of enterprises and the realization of personal value. Try to form a harmonious situation of enterprise development and social satisfaction.



权伟精神

——创新 诚信 务实 高效

【诠释】

企业精神是企业的灵魂，是企业生命力的表现和特征，是企业发展的精神动力。“创新”是企业保持生机和活力的源泉；“诚信”是法律和道德的要求，是相互合作的基础；“务实”需要我们一切从实际出发，立足当前，脚踏实地，兢兢业业，面对机遇和挑战，共图发展大业；“高效”需要我们以高水平的服务对待客户，努力提高社会效益和企业经济效益。

“创新”反映出企业的能力，“诚信”反映出企业的道德，“务实”反映出企业的作风，“高效”反映出企业的特点。

权伟从“团结、开拓、求实、奉献”的企业精神追求中升华，将“创新、诚信、务实、高效”作为权伟机械新的企业精神，体现了在激烈的市场竞争中坚持与时俱进。它是我们艰苦创业、迎难前进的经验总结，是凝聚团队力量的精神支柱，是鼓舞企业铸造新辉煌的战斗号角。

Quan Wei Spirit

Innovation Honesty Pragmatism Efficiency

[Interpretation]

"Innovation" reflects the ability of the enterprise, "Honesty" reflects the morality of the enterprise, "Pragmatism" reflects the style of the enterprise, and "High efficiency" reflects the characteristics of the enterprise.



权伟管理理念

—以人为本管理创新持续改进

【诠释】

企业管理理念是企业管理工作的主导思想和行为准则。

以人为本，是企业文化的本质特征之一。尊重员工，善待员工，体现人文关怀，最大限度地调动员工的积极性、主动性和创造性是企业的重要原则，也是企业管理的目的。

创新管理机制，是管理有效的依托，它为企业资源优化配置、增强竞争力提供了根本保证。要根据新的形势和市场环境的变化结合公司的发展目标，及时完善、补充各项管理制度，提高管理水平。

情况不断在变化，变化的环境需要与之相适应的管理方法。过去好的管理经验、好的管理制度要继承，不适应新情况的管理办法要不断调整改进。在与时俱进的科学管理中，企业发展的步伐才会持续迈进。

Quan Wei management concept

People-oriented Management Innovation continuous improvement

[Interpretation]

The concept of enterprise management is the guiding ideology and code of conduct of enterprise management.

People-oriented is one of the essential characteristics of enterprise culture. It is the important principle of enterprise management and the purpose of enterprise management to respect employees, treat them well, embody humanistic concern, and mobilize the enthusiasm, initiative and creativity of employees to the maximum extent.

Innovative management mechanism is the effective basis of management, it provides a fundamental guarantee for the optimization of resource allocation and the enhancement of competitiveness. According to the new situation and the changes of the market environment, the company should improve and supplement the management system in time and improve the management level in combination with the development objectives of the company.

权伟人才观

广聚贤才，人尽其用，打造一流企业团队。

【诠释】

企业人才观是企业选人、用人的指导思想和工作原则。

人才是企业发展的第一资源。当今的市场竞争，说到底是人
才的竞争。谁拥有了一定数量的、源源不断的人才，谁就在市
场的拼搏中稳操胜券。要按照市场的要求和公司的发展目标，
内外结合，选拔和选聘人才，努力创造出广聚贤才的良好机制
和环境。

对企业人才不求所有，但求所用。要知人善任，人尽其用。
努力使企业的有用之才，都能在企业施展才华，大有作为。要
调动人才的积极性和创造性，为人才演绎人生搭建无限平台，
在促进企业发展的同时实现每个人的自身价值。

具有各类人才支撑的一流企业队伍，是经得起市场选择、具
有科学态度、先进思想和良好的职业技能的企业优秀团队。这
样的队伍有共同的奋斗目标，充满活力、凝聚力和战斗力。要
通过有效的学习培训、科学的选人用人制度、合理的激励和制
约机制，促进企业各类人员努力学习，爱岗敬业，创造业绩，
促使企业保持旺盛的生命力。

Quanwei talent View

Gather talent, people use it to build a first-class enterprise team.

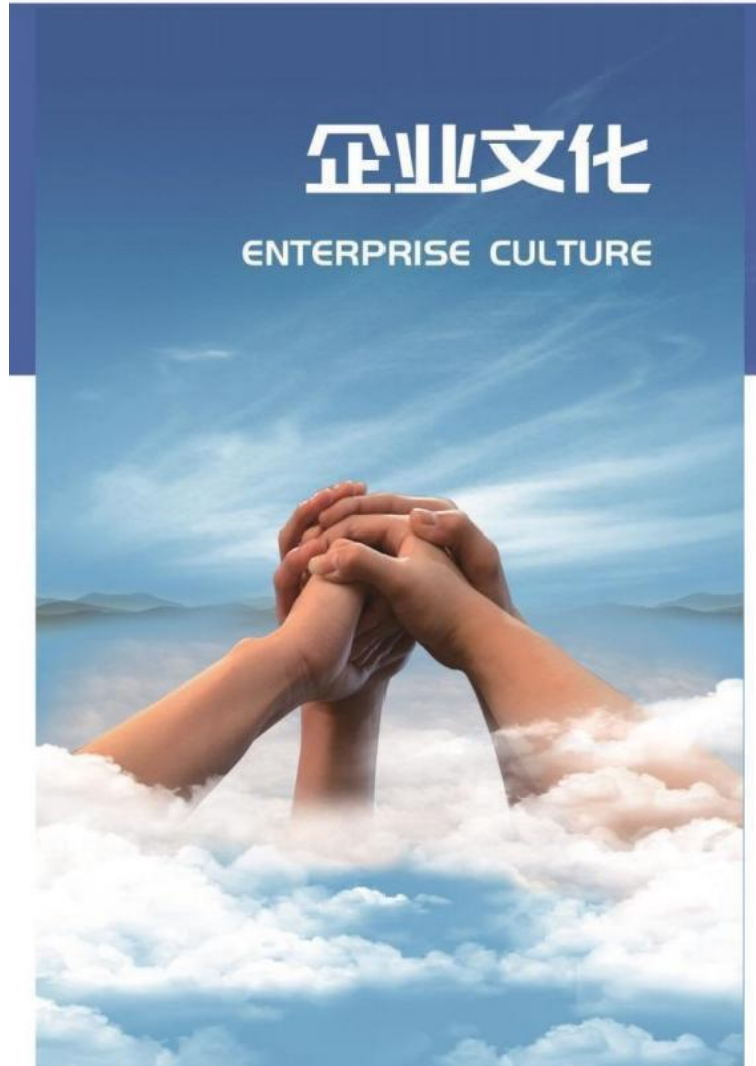
[Interpretation]

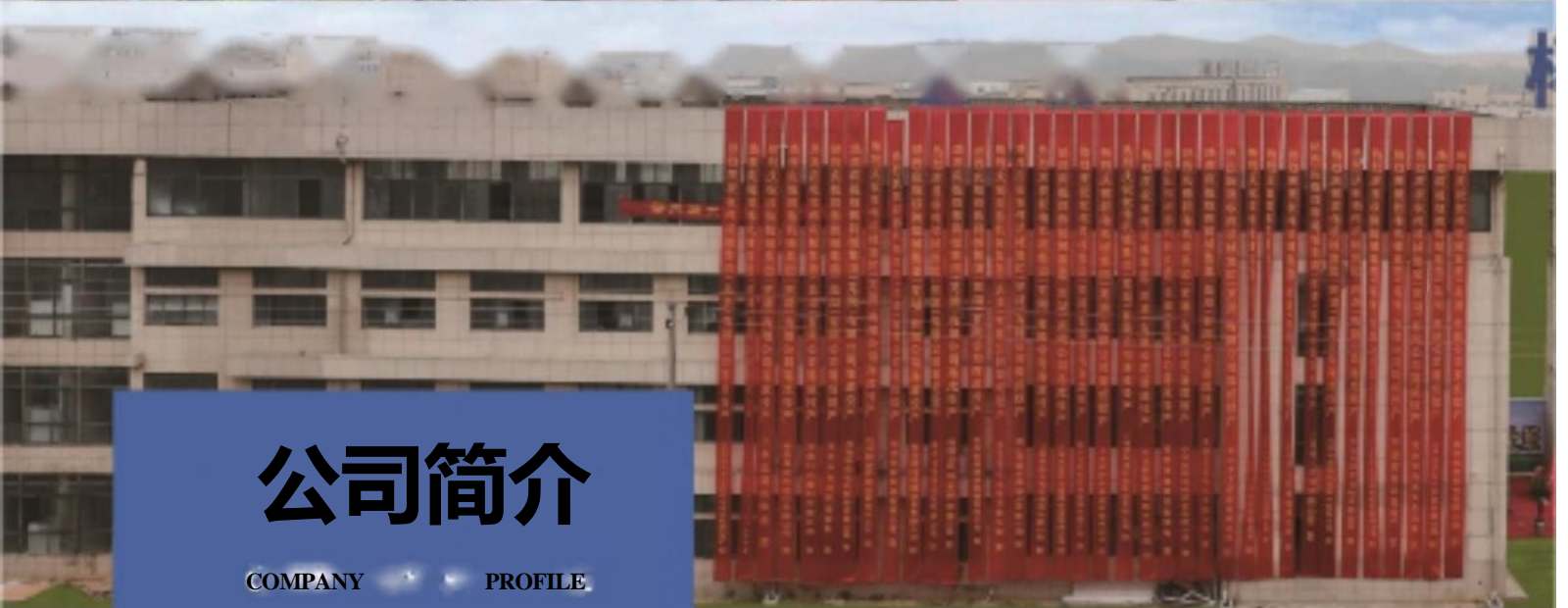
The concept of enterprise talent is the guiding ideology and working principle of selecting and employing personnel.

Talent is the first resource for enterprise development. Today's market competition, after all, is the talent competition. Who has a certain number of continuous talent, who will be in the market in the struggle. In accordance with the requirements of the market and the company's development objectives, internal and external integration, selection and recruitment of talent, and strive to create a wide range of talents and good mechanism and environment.

Do not ask for all the talents of the enterprise, but for the use. We should know the good and the duty of the people, and make the best use of them. Strive to make the enterprise useful talent, can display talent in the enterprise, great achievements. It is necessary to mobilize the enthusiasm and creativity of talents, build an infinite platform for talents to interpret life, and realize the value of each individual while promoting the development of enterprises.

With all kinds of talents to support the first-class enterprise team, is able to withstand market choice, scientific attitude, advanced ideas and good professional skills of the enterprise excellent team. Such a team has a common goal, full of vitality, cohesion and combat effectiveness. Through effective study and training, scientific personnel selection and employment system, and reasonable incentive and restriction mechanism, we should promote all kinds of personnel of enterprises to study hard, love their jobs and work hard, create achievements, and urge enterprises to maintain their vigorous vitality.





公司简介

COMPANY PROFILE

台湾权伟空气压缩机系权伟机械有限公司下属品牌之一，公司旗下主营产品有台湾权伟、台湾永莹、德敏锐。

权伟机械工厂创建于1986年，坐落于台湾高雄市苓雅区。是台湾最早一家从事研发、设计、生产集销售为一体化的综合型螺杆压缩机生产厂家。台湾权伟2013年放眼中国扎根苏州建立公司，拥有28000平方米厂房，其包括大型生产车间、全方位一流的展示厅和质量检测实验室等。

台湾权伟螺杆压缩机工厂拥有优秀的机械工程师、经验丰富的员工团队和专业的管理团队，生产理念以台湾质量标准技术研发，完善和改进工艺流程，严抓产品质量，让权伟的产品具有超级变频节能核心技术，达到静音、耐用、省电、安全的特点。因此台湾权伟品牌也荣获多个奖项与专利设计，被评为中国“中国驰名商标”、“中国空压机行业十大品牌”、“中国节能环保产品”等多项荣誉。

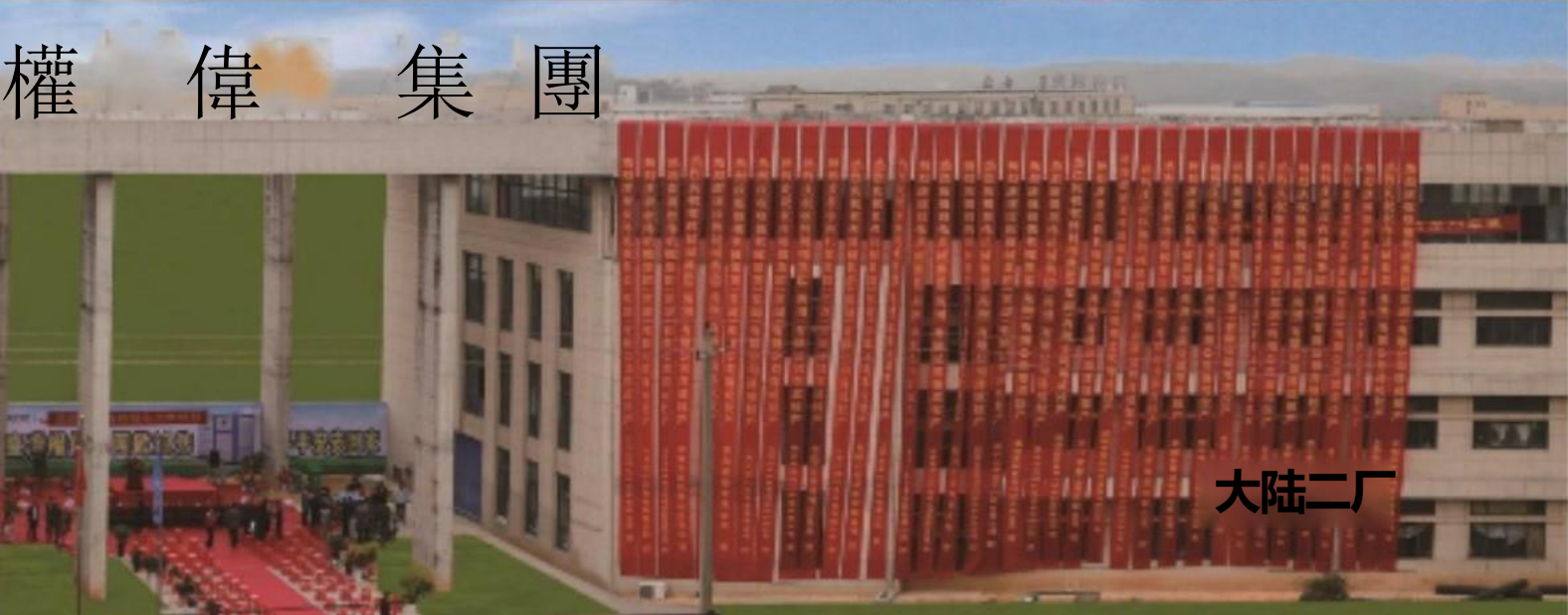
公司现有6大系列共158个品种、多个规格的空气压缩机。包括：工频空气压缩机、变频空气压缩机、永磁变频空气压缩机、永磁变频两级空气压缩机、永磁变频低压空气压缩机、永磁变频中高压气压缩机、柴移螺杆式空气压缩机等系列产品。台湾权伟秉承诚信、优质、创新、共赢的经营理念为每位顾客提供免费配置方案、保养与提升业绩策划方案等服务，为客户创造更大价值，提供一站式服务！

台湾权伟空气压缩机不仅覆盖台湾、大陆市场，还远销国外至沙特、越南、泰国、俄罗斯等中东地区都是我们主要的出口国家。公司严格按照IOS9001 国际质量体系认证进行生产和管理，公司营销网络与售后服务点遍及世界各地。权伟产品质量和款式的优异性得到使用者的一致好评，公司始终秉持尊重客户、尊重事实、尊重科学的服务理念竭诚为每一位客户提供卓越的空气压缩产品和无微不至的售后服务！

台湾权伟热忱期盼国内外客户光临本厂了解产品、参观指导！



大陆一厂



權偉集團

大陆二厂

Taiwan QuanWei Air Compressor is one of the subordinate brands of QuanWei Machinery Co., Ltd. The main brands of the company are Taiwan QuanWei, Taiwan YongYing, Taiwan XieWei.

QuanWei Machinery Factory was founded in 1986, located in Kaohsiung, Taiwan LingYa District. Taiwan is the earliest engaged in R&D, design, production and sales of integrated screw compressor manufacturers. In 2013, QuanWei of Taiwan set up a company in Suzhou, China, with 28000 square meters of factory buildings, including large production workshops, all-around first-class exhibition rooms and quality testing laboratories.

Taiwan QuanWei screw compressor factory has excellent mechanical engineering designers, experienced staff and professional management team. The production concept is developed according to Taiwan quality standard technology, perfect and improve the technological process, and strictly grasp the quality of products. Make QuanWei's products have super frequency conversion energy-saving core technology, achieve mute, durable, power saving, safety features.

Therefore, Taiwan QuanWei brand has also won many awards and patent designs, and has been named "China famous Brand", "China Air Compressor Industry Top Ten Brand", "China Energy Saving and Environmental Protection products" and many other honors.

The company has 6 series of 158 varieties, many specifications of air compressors. Include: power frequency air compressor, frequency conversion air compressor, permanent magnet frequency conversion two stage air compressor, permanent magnet frequency conversion low pressure air compressor, permanent magnet frequency conversion medium and high pressure compressor, firewood moving screw type. Air compressor and other series of products. Taiwan Quan Wei adhering to the integrity, quality, innovation, win-win business philosophy for each customer to provide free configuration plans, maintenance and performance planning programs, to create greater value for customers, to provide one-stop service!

QuanWei Air Compressor of Taiwan not only covers the Taiwan and mainland markets, but also sells abroad to Saudi Arabia, Vietnam, Thailand, Russia and other Middle East regions are our main export countries. The company strictly according to the IOS9001 international quality system certification for production and management, the company's marketing network and after-sales service throughout the world. QuanWei product quality and style of excellence to get the user's good reputation!

The company always adhere to respect customers, respect facts, respect scientific service philosophy dedicated to each customer to provide excellent air compression products and meticulous after-sales service!

一流的加工设备

FIRST-CLASS

PROCESSING

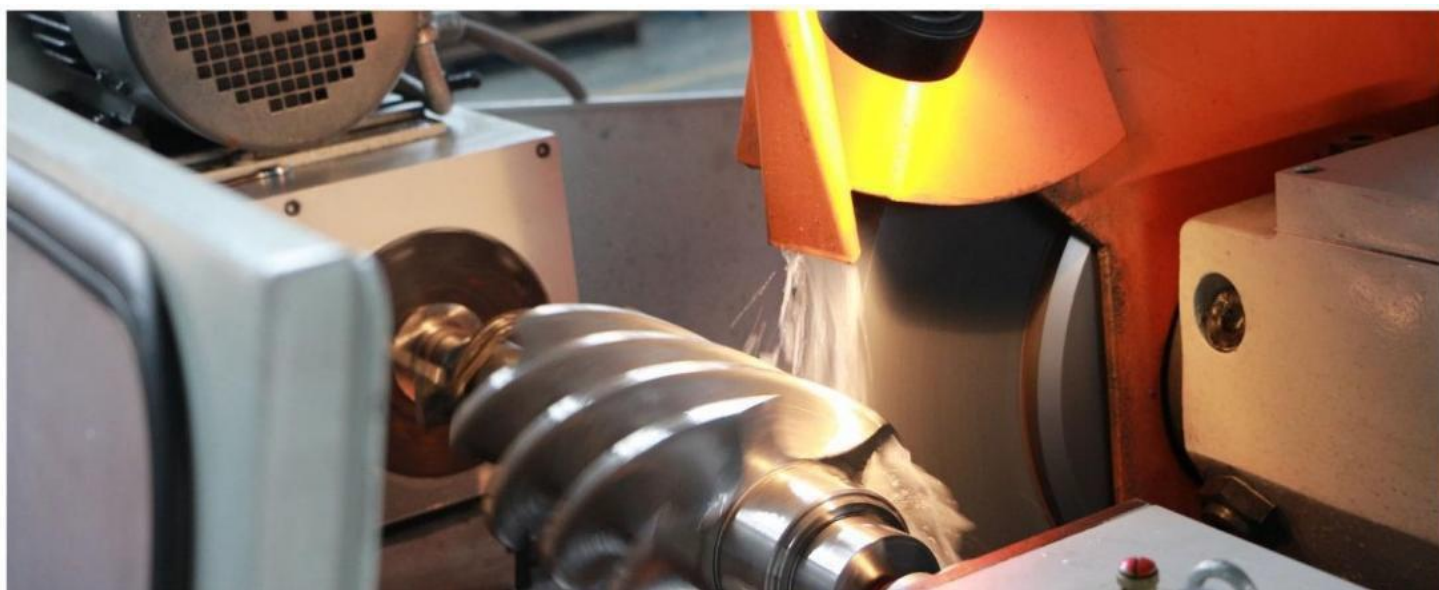
EQUIPMENT

权伟机械不是简单的“采购→装配→销售”模式的组装型工厂，是从“市场→研发→制造→市场”全能力、系统化的螺杆压缩机专业制造商，“立足专业、科技创新、追求卓越”是我们的宗旨，相信我们是您更值得信赖的伙伴！

Quan Wei Machinery is not a simple "purchase, assembly, and sales" model assembly factory, is from the " market R & D " system. Manufacturing market " fully capable, systematic screw compressor professional manufacturers," based on professional, scientific and technological innovation, the pursuit of excellence "is our purpose, I believe that we are your more trustworthy partners!

主机加工中心

AIR END PROCESSING CENTER



制造一流产品

MANUFACTURE

FIRST-CLASS

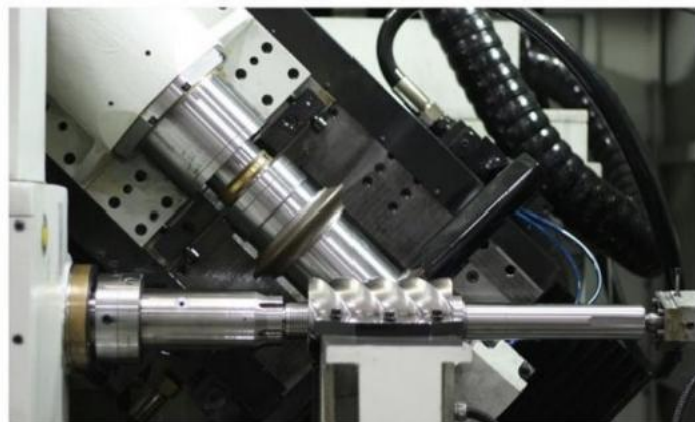
PRODUCTS

权伟机械拥有两条高精度的螺杆主机生产线，装备进口专业加工检测设备和国际先进的工艺技术，机壳采用精密数控加工中心加工，高效型线转子经CNC 高精度磨削加工而成，实现螺杆空压机核芯一主机的高精度、高效率、高可靠性和长寿低噪。

Quan Wei Machinery has two high precision screw main machine production lines, equipped with imported professional processing and testing equipment and international advanced technology. The casing is machined by precision NC machining center, and the high efficiency linear rotor is machined by CNC high precision grinding. To realize high precision, high energy efficiency, high reliability and long life and low noise of the core of screw air compressor and Airend.

德国转子测量中心

GERMAN ROTOR MEASUREMENT CENTER



公司资质

COMPANY

QUALIFICATION



具有变频节能核心技术， 达到静音、耐用、省电、安全的特点

SUPER VARIABLE FREQUENCY ENERGY SAVING CORE TECHNOLOGY,
ACHIEVE MUTE, DURABLE, POWER SAVING, SAFETY CHARACTERISTICS



创新12大核心技术

1

进口主机、大转子、低转速、长寿命;

7

超强的智能监控物联网技术任您无限扩展,手机、电脑远程控制;

2

同轴一体、分体设计,电机无轴承,没有维护,没有传动损失;

8

真彩显示、触控最少100万次,支持32种语言设置;

3

IP54永磁电机, 欧盟E4标准, 整机保修1年

9

客户用电无需安装电表、显示器直接显示电量;

4

高性能矢量永磁同步一体双变频恒压、恒温技术;

10

可为客户量身定制各种型号产品;

5

高效静音的离心变频风机控制系统;

11

每台永磁变频空压机拥有低噪音、低耗能、低维修的特点,平均节能35%以上;

6

行业领先的智能变频触摸屏控制技术、人力成本最低;

12

人性化的外观设计,美观大方实用,可拆卸过网,独特的门卡扣设计,使管理工作轻松简单。

INNOVATE 12 MAJOR CORE TECHNOLOGIES

1 Main engine imported ,big rotor,low rotating speed and long service life;

2 Coaxial integration, separate design,motor has no bearing or maintenance,so there is no transmission loss:

3 IP54 servo permanent magnetic motor,EU IE4 standard, magnetic steel has ten-year warranty with lifelong maintenancer;

4 High-performance vector permanent magnetic synchronous integrated dual-frequency converting constant voltage and temperature technology;

5 High-efficient and muting centrifugal variable frequency draught fan;

6 Control technology of smart variable frequency touch screen and lowest cost of labor;

7 Super strong intelligent monitoring IoT(Internet of Things) technology allowyou to do infinite extension, cellphone and computer remote control;

8 True color display,touch screen control for at least one million times, support 32 languages setting;

9 Client power utilization doesn't need to install electricity meter, and displayer directly displays it;

10 Can customize products of all models for customers;

11 Each permanent magnetic variable-frequency air compressor is featured by low noise, low energy consumption and low maintenance,averagely saving energy by over 35%;

12 Humanized appearance design, which is beautiful, elegant and practical, filter screen can be dismounted, unique snapjoint design makes

全国统一服务热线 NATIONAL SERVICE HOTLINE

400-601-4677

接收客户咨询及投诉公司在10分钟内响应客户要求为客户
提供全面的支持与协作

Receiving customer consultation and complaints, the company responds to customer requests within 10 minutes.

Customers provide comprehensive support and collaboration



营销网络

MARKETING

NETWORK

中国. 苏州工厂

FACTORY-SUZHOU, CHINA

台湾. 总部

CENTRAL OFFICE

全国100多个分支机构

MORE THAN 100 BRANCHES ACROSS CHINA

- 及时快捷为全国客户提供售前售后服务
Timely and rapidly provide pre-sale and after-sale service for national customers
- 全国各分支机构的服务团队
Service teams in various branches across the whole nation
- 定期对您的空压机系统进行回访
Pay regular return visit to your air compressor system
- 定期追踪空压机系统使用情况
Regularly track service conditions of air compressor system

品牌优势

BRAND ADVANTAGES



质量第一贯穿始终
Quality comes first and runs through beginning to endings

权伟压缩机产品质量充分体现了最现代化的技术，其设计和制造过程均按照S9001标准要求执行，产品符合环保更求，质量保证，安全可靠，使用寿命长。
Quan Wei compressor product quality fully reflects the most modern technology, its design and manufacturing process are in accordance with the requirements of S9001 standards, products in line with more environmental protection, quality assurance, safety and reliability, long service life.

安装简单运行方便
Simple installation and convenient operation

产品出厂时，机器中已充满压缩机油，若安装就位后，接通电源，即可投入运行，通过带背光的液晶屏幕，清晰地显示机器的运行状态。
When the product leaves the factory, the machine is filled with oil, after installation, press the power supply, can be put into operation, through the liquid display screen with backlight, clearly show the running state of the machine.

节省空间安全环保
Save space, safety and environmental protection

产品结构紧凑，体积小，占用场地面积少，加之运行噪声低，因此可安装在任何需要的地方，即使是生产区域也无妨碍。
Compact structure, small size, less occupied area, low operating noise, so can be installed in any need, even the production area is not obstructed.

降低成本节约能耗
Reduce cost and reduce energy consumption

使用智能控制系统和全自动加载/卸载调节，可保证空压机根据压缩空气的需求量运行，杜绝浪费，不用气时自动停机，降低机器的运行成本减少能源消耗，效果显著。
The use of intelligent control system and automatic loading/unloading regulation can ensure that the air compressor can run according to the demand, eliminate waste, stop automatically when no gas is needed, reduce the running cost of the machine and reduce the energy consumption, and the effect is remarkable.

不接受不良品
Not accept non-performing products

不创造不良品
Not create non-performing products

不传替不良品
Not pass on non-performing products

在行业内:

我们敢于承诺整机质保两年，双级压缩主机质保五年，伺服永磁电机磁钢保修10年，终身维护，我们敢于先赔付再理赔。

Within the industry:

We dare to promise two-year quality guarantee for complete machine, five-year quality guarantee for host machine of two-stage air compressor and ten-year warranty for magnetic steel of servo permanent magnetic motor with lifelong maintenance, and we dare to compensate before settlement of claims.

因为：质量体系的贯彻保驾护航

ISO9001质量管理体系，追求“零缺陷”宗旨；
宁愿事前检查，不愿事后返工，控制每一道工序，做好每一件产品。

Because: implementation of quality system conveys our development

ISO9001 quality control management system, we pursue "zero defect" tenet;
We prefer pre-incident survey rather than afterward rework, we control each working procedures and accomplish each piece of product.

强大的权伟公司
Powerful Quanwei company

专家团队
Expert team

全程为您提供全面周到的服务
Provides you with comprehensive and thoughtful service

无论是购买的新机器, 还是用了几十年的老机器, 权伟机械知识渊博的专家都能为您解决所有疑问, 您可以通过在线交流或拨打电话与我们沟通, 也可以前往附近的权伟机械特约经销商当面咨询, 我们的专家关心的只是帮助您做出正确的选择, 而不是以赚钱为目的的, 只要给我们打个电话, 就能体验我们贴心的服务。

No matter newly bought machines or old machines which have been used for dozens of years, knowledgeable experts in Quan wei machinery can solve all doubts for you. You can choose online-communication or communicate with us on the phone, Can enjoy- face-to-face consultation with nearby Quan wei machinery franchised dealers. what our expert concern is to help you to make right choice but not for money. Only if you give us a call you can experience our thoughtful service.

本地化及时快捷的服务

Localized timely and convenient service

新建空压机的全套建站咨询。
设备安装后派专员负责设备调试及管理人员操作维护方面的培训。
设备调试合格后, 质保期内提供免费维护及配件。
主机终生服务, 配件供应保障。
每年定期走访客户。

对客户偶尔故障, 派员迅速排除故障。
先进的检测仪器, 及时提供运行数据。
系统用气数据收集、分析及优化气源管理。
对于特殊需要的客户, 我们还可以常年派驻专员小组至用户现场, 进行24小时的跟踪服务, 定点的现场检查维护、定时的保养措施及随时随地的现场维修。

我们为客户提供最佳的服务方案, 以降低用户维修成本。
Wholesale of station building consultation of newly built air compressor station. After equipment is installed, we will assign specialized personnel to take charge of equipment debugging and training of management personnel about operational maintenance.

After equipment is qualified through debugging we provide maintenance and accessories for free within term of quality guarantee.

We provide lifelong service for host machine and guaranteed accessories supply. We will pay regular visit to customer every year.

For occasional fault from customers, we will assign personnel to do rapid fault removal.

Advanced detecting instrument timely provides operation data. The system has air used data collection, analysis and optimization of air source management.

For customers having special requirements, we can also dispatch commissioning team to user's site through the year to conduct 24h follow-up service, fixed-point on-site inspection and maintenance, and take regular maintenance measures and on-site repair whenever and wherever possible.

We provide customers with optimal service scheme to reduce maintenance cost of customers.

我们的服务态度

Our service attitude

耐心听取客户的需求, 细心诊断各种故障、用心处理客户一切问题。以乐业的心态、专业的技能、敬业的态度满足顾客需求。
Listen patiently to internal requirements of customers, carefully diagnose all kinds of faults and diligently handle all problems for clients.

Satisfy customer demand with professional enthusiasm, professional skills and dedicated attitude.

我们的服务

OUR SERVICES

权伟常年技术服务支持

QuanWei provides Technical support and service all time

定期的上门现场服务, 并承诺24小时内至现场进行维修服务。

为客户提供全方位的空压机诊断, 将压缩机的故障消灭在萌芽中, 确保生产线连续完整, 避免昂贵的故障损失。

绝对更低的维护成本, 在充沛的备件保证前提下, 对于签约客户可获得最低10%优惠价格的备件, 5年保固心计划。

标准螺杆机一年保修期满后压缩单元保修再延长4年, 同时, 我们将对所有的签订5年安心合同的用户单机建档管理, 进行定时保养服务提醒。

We provide regular door-to-door field service and promise to give maintenance service on the site within 24h. We provide customers with all-round air compressor diagnosis and eliminate its faults in sprout so as to ensure continuous and complete production line and avoid expensive fault loss.

With absolutely lower maintenance cost and on the condition that abundant spare parts are guaranteed, signed clients will obtain spare parts with 10% preferential price at least and enjoy five year heart warranty plan.

After expiration of one year guarantee period of standard screw-machine, guarantee of compressor units will be extended for 4 years, in the meantime, we will conduct filing management of individual machines of all clients which sign "5-year relieving" contracts with us and conduct regular remind of maintenance service.

售后服务:

After-sale service

在行业内率先做出永磁变频两年质保的承诺。
公司设有培训基地, 每月定期免费为客户进行培训。
全国各地的分支机构, 均建有不同规模的备件库, 确保能就近为客户提供快捷的售后服务及配件供应。
数百位服务工程师和代理商的服务人员, 可提供覆盖全国的快速服务。

只需一个电话, 即可得到您需要的帮助。
Take the lead in making a commitment for two-year quality guarantee of permanent magnet variable frequency within the industry.

The company has set training base and provide training for clients for free periodically in each month. Branches across the nation have built spare parts storages of different scales to ensure providing rapid after-sale service and spare parts supply for customers in the neighborhood. Hundreds of service engineers and service personnel of our agents can provide rapid services covering the whole nation. Only if you give a call you can obtain any help you need.

产品细节

PRODUCT DETAILS



新一代高效进口主机 New generation efficient import air end

采用台湾ChiWai双螺杆主机，高精度进口双螺杆转子，容积效率高达99%强大的心脏决定了整机优异的性能。

Taiwan ChiWai twin screw main engine, imported high precision twin screw rotor, volume efficiency up to 99%, strong heart determines the machine excellent performance.



压缩机专用电机IP54 High performance brand motor

1. 电机采用知名世界品牌高性能电机，防护等级IP54，绝缘等级F级；

2. 电机轴承采用的是瑞典SKF重载轴承，效率较同类产品高5%-7%。

3. The motor adopts the famous world brand high-performance motor with IP54 protection level and F insulation level.

2.the motor bearing adopts SKF heavy-duty bearing from Sweden, with an efficiency of 5%-7% higher than similar products.



先进的控制系统 Advanced control system

1. 采用知名世

界品牌，电器符合符合国际安全标准。

2. 采用热固型料，没有熔点，即使遇明火也会逐步碳化。

3. 采用台湾权伟原装控制显示系统，中(英)文控制系统，简单明了，易于操作；

4. 拥有过载保护、短路保护、反转保护、低温保护、超压保护等多达14种保护功能对机组进行全方位保护。

1.It adopts a well-known world brand,and electrical appliances meet international safety standards.

2.The use of thermosetting materials, no melting point, even in the event of an open fire will gradually carbonize.

3.Taiwan quan wei original control display system, Chinese (English) control system, simple,easy to operate;

4.With overload protection, short circuit protection, reverse protection, low temperature protection, overpressure protection and other protection functions of up to 14 to provide all-round protection to the unit.



先进的油气管路系统 Advanced oil and gas piping system

采用紫铜管路，有效降低压损，增大流量。柔韧性好，耐高温，耐高压，耐磨耐腐蚀。

Adopt red copper pipeline, reduce pressure loss effectively, increase flow rate. Good flexibility,high temperature, high pressure,abrasion and corrosion resistance.



选用高效过滤系统 Select high efficiency filtration system

1. 采用高精度进口滤纸，完全滤除润滑油中的杂质，确保润滑清洁延长压缩机使用寿命。
1.High precision imported filter paper is adopted to completely remove impurities in the lubricating oil, ensuring the lubrication and cleanliness to extend the service life of the compressor.
2. 高效的精密油气分离滤芯能有效降低压缩机中的排气含油量和机组功耗含油量仅为1-2PPM。
2.The efficient and precise oil and gas separation filter element can effectively reduce the exhaust oil content and unit power consumption oil content of the compressor is only 1-2ppm.



高性能进气阀 High performance inlet valve

采用世界知名品牌红星进气阀，可根据系统用气量的要求，0-100%自动调节气量，降低运行费用。

Adopting the world famous brand red star air inlet valve, it can automatically adjust the air volume from 0 to 100% according to the requirements of system air consumption to reduce the operation cost.

一体永磁变频螺杆式 空压机7.5KW-45KW

PM VARIABLE FREQUENCY
SCREW TYPE AIR COMPRESSOR 7.5KW-45KW



优势/特点

ADVANTAGES / CHARACTERISTICS

1 新一代高效进口主机 New generation of efficient imported mainframe

- 1、最先进的螺旋齿型技术
The most advanced spiral tooth type technology
- 2、新型5:6非对称转子齿型
New-type 5:6 asymmetrical rotor tooth type
- 3、台湾品牌螺杆主机，大转子低转速设计
Design of low rotational speed of large rotor in German screw air end
- 4、采用顶级品牌瑞典原装进口SKF圆锥滚柱轴承
Imported SKF tapered roller bearings from Sweden
- 5、相对功率比普通机型排气量增加5-10%以上
The relative power is more than 5-10% higher than that of the ordinary model



高效稀土永磁同步电机 Efficient RPM motor

- 1、永磁同步电机(PM电机)采用高性能钕铁硼永磁体，200℃不失磁。使用寿命长达15年
Permanent magnetic synchronous motor(PM motor) adopts high-performance NdFeB permanent magnet which will not lose magnetism under 200 °C and its service life reaches as long as 15 years
- 2、定子线圈采用变频器专用耐晕漆包线，绝缘性的卓越，使用寿命更长
The stator coil uses the frequency converter special halo proof enamelled wire, the insulation is outstanding, the service life is longer
- 3、同轴一体结构设计，电机无轴承结构传动效率100%
Coaxial structure design, drive efficiency of bearingless structure is 100%
- 4、免定期注油脂，免定期更换轴承
No regular grease injection, no replacement of bearings on a regular basis
- 5、电机具有温度保护功能(PTC/PT100)
The motor has the function of temperature protection, PTC/PT100
- 6、电机调速范围宽、精度高、气量调节范围更广
Wide range of motor speed regulation, high precision and wider range of air volume regulation
- 7、电机体积小，低噪音，低振动，运行平稳
The motor is small in size, low in noise, low in vibration and smooth in operation
- 8、特殊电机壳体设计，可提供IP23/IP54/IP65防护等级电机
Special motor shell design, which can provide IP23/IP54/IP65 protection grade motor



智能控制系统 Intelligent control system

首创节能数据显示，让您的节能看得到。多重保护设计，一项轻故障提醒，十项更故障保护三种压力单位可自由选择，包括(Mpa/Bar/Psi)自由待机及休眠唤醒功能、目标压力设定功能，实现期望机组达到的输出气压值保留多出节点，用于控制冷干机启停及预加热功能。
Initiated energy-saving data display makes it possible for you see energy conservation. Multiple protection designs with one light fault remind and ten severe fault protections three pressure units can be freely chosen including functions of (Mpa/Bar/Psi) free standby sleep resuming, and target pressure setting functions, which can realize reservation of output air pressure value reached by unit and to make it excess nodes to be used to Control dryer starting and stopping and preheating functions.



智能PID功能 Intelligent PID function

作用：防止用气量迅速变化时空压机系统频繁加载卸载；延长系统寿命。其功能下的压力PID调节更灵敏可控，即使在用量变化较大的场合，也能防止空压机过多卸载。降低达用气量变化较大问题而使压缩机来不及降低转速而多余浪费的能量。

Function: prevent frequent loading and unloading of air compressor system when air consumption rapidly changes so as to lengthen service life of the system. Pressure PID regulation under its function is more sensitive and controllable even if under situation with great air consumption, it can also prevent excess loading and unloading of air compressor. Energy wasted because its too late for air compressor to lower rotating speed when change of air consumption is great will be reduced.



5 无极容调进气系统 Infinite volume control airinlet system

采用无极容调进气系统，无电磁阀运行，自带止回功能，减少故障点；机器没有卸载，更节能。可实现 0-300HZ 运行，做到真正意义上的节能。

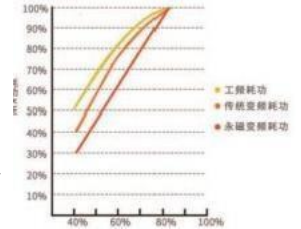
The compressor adopts infinite volume control airinlet system. It could operate without magnetic valve. Built in function of the check valve can reduce malfunctions. The compressor is free from unloading process and shows higher energy efficiency This compressor can operate at frequencies from 0-300HZ and realize high energy efficiency in real sense.



变频控制范围更宽广更节能

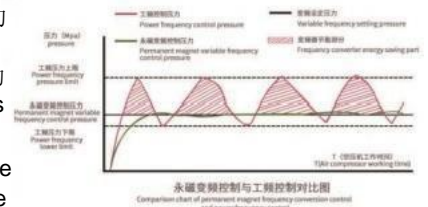
Variable-frequency control range is broader with more energy conservation

拥有低转速高输出转矩优势变频控制模式较普通感应变频电机更加宽广尤其在低负载工作区30%-80%用气量比工频压缩机节约15%~38%，比一般变频压缩机节能10%左右负载率越低，节能效果越明显。It has advantages of low rotating speed high output torque, variable frequency control mode is broader than ordinary inductive variable frequency motor, especially its 30%-80% air consumption in low-load working area saves by 15%-38% when compared with that of power-frequency compressor and by 10% when compared with ordinary variable frequency compressor. The lower load ratio, the more obvious the energy-saving effect.



领先业界的恒压 Leading constant pressure control

AVF 系列永磁变频螺杆空压机在任何负载下始终保持 0.1bar 恒压供气，当用气量大时，压力保持不变而转速自动补偿，确保供气需要，当用气量小时，压力保持不变而转速自动降低，满足仅够用气的气量在用气很少或不用气的情况下系统会进入休眠状态，实现最大的节能：在休眠中，实际压力达到休眠唤醒压力时，变频器高速响应，立即启动。AVF series permanent magnet frequency conversion screw air compressor always keeps 0.1bar constant pressure air supply under any load. When the air volume is large, the pressure remains constant and the rotational speed is compensated automatically to ensure the need of gas supply. When the air volume is small, the pressure remains constant and the rotational speed automatically decreases. To meet the only enough gas in the case of little or no gas use the system will enter into the state of dormancy to achieve the maximum energy saving in dormancy the actual pressure to achieve dormancy wake-up pressure the frequency converter high speed response and start immediately.



8 高性能矢量变频器 High-performance vector frequency converter

标准配备高频电抗器，有效降低了变频器产生的高频及外界的磁场干扰。可靠的降低了启动时的峰值电流，实现了平稳的启动；节省了电源设备的成本；特殊的散热设计，防止夏季高温跳脱；标准配备防尘网，电路板表面涂层处理，实现防污。防尘、防潮的效果；CAN 的标准协议，有硬件的线材规范，抗噪音能力强；快速追踪压力的变化，将压力波动控制在 $\pm 0.01\text{Mpa}$ 以内，利用最佳的动力，精确地提供必要的空气量；先进的一体式风机、电机双矢量变频控制技术。

Standard equipped with high frequency reactor, effectively reduce the frequency generated by the converter and external magnetic field resistance. Reliable reduction of peak start current, smooth start: save power equipment cost: special cooling design, to prevent summer high temperature jump: standard equipped with dustproof mesh, PCB sheet and coating treatment, anti-fouling. Dustproof and moisture-proof effect: CAN standard protocol, wire specification for hardware, strong noise resistance; Fast track pressure changes, control pressure fluctuation within $\pm 0.01\text{Mpa}$, use the best power, accurately provide the necessary air volume; Advanced integral fan, motor double loss frequency conversion control technology.



9 高效的离心式风机双变频控制系统(可选配) High efficient centrifugal fan-cooling control system of double frequency (optional package)



1、离心式冷却风扇永磁电机采用变频控制，节能约为50%。根据排气温度，控制风扇的转速，抑制电力的浪费，同时因为稳定了系统及整体的部件温度，从而提高了部件的耐久性，而且风扇变频，从而使噪音进一步降低。

2、离心风机具有高效率，低噪音，压力曲线平衡等优质特性。

1.Centrifugal cooling fan permanent magnet motor adopts frequency conversion control, saving about 50% energy. According to the exhaust temperature, control the fan speed, reduce the power waste, stabilize the system and the overall component temperature, improve the component durability, fan frequency conversion, further reduce the noise.

2.Centrifugal fan has high efficiency, low noise, pressure curve balance and other high-quality characteristics.

10 智能的空压机物联网管理系统(可选配) Intelligent IoT management system of the compressor (optional package)

配有空压机云管理平台，可以做到实时监控，维保提醒，故障记录查询，远程操作，一键启停等功能，用户可以通过下载APP到手机、电脑端，一目了然，直接掌控客户使用情况，通过“云”平台，可以对客户做到更加细致的服务。

With air compressor cloud management platform, real-time monitoring, maintenance reminder, fault record query, remote operation, one key start stop and other functions, users can download app to mobile phone, computer end, at a glance, directly control the use of customers, through the "cloud" platform, customers can do more detailed services.



四种控制模式:

Four modes of control:

自动控制，手动控制，多台联动、远程监控。

Automatic control, manual control, multiple linkage, remote monitoring.

a、微电脑控制、智能化运行、中英文界面显示、操作直观方便

microcomputer control, intelligent operation, Chinese and English interface display, intuitive and convenient operation.

b、压力，温度等各种参数按预设值进行连续监测、显示及控制。

Pressure, temperature and other parameters according to the preset value for continuous monitoring, display and control.

c、故障自动报警及保护，历史运行记录的种类存储及查询。

failure automatic alarm and protection, historical operation record type storage and query.

d、可实现计算机远程监控通讯或空压机之间多台联动控制

It can realize the remote monitoring and communication of computer or the linkage control between air compressors.

权伟-空气压缩机节能专家!

每一台螺杆空压机均达到国家节能标准，部分产品超国家标准。

QUANWEI--ENERGY.SAVING EXPERT OF AIR COMPRESSOR EACH SCREW AIR COMPRESSOR REACHES NATIONAL ENERGY SAVING STANDARD, AND SOME PRODUCTS EXCEED NATIONAL STANDARD.

选择权伟选择绿色节能

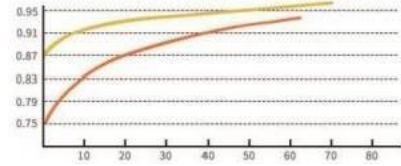
SELECT QUANWEI MEANS SELEC TING GREEN ENERGY SAVING

您将获得超乎想象的节能效益

You will obtain unimaginable energy-saving benefits

两台30HP空压机，24小时运转。顶峰用气在40HP-55HP，由流量计算一日总流量，累计式电表记录日耗电量。

Two 30HP air compressors operate 24 hours a day. The peak gas is 40HP-55HP.the total flow rate is calculated by the flow rate, and the accumulative ammeter records the daily power consumption.



永磁电机 Permanent magnetic motor
异步电机 Asynchronous motor

1 使用定频空压机 Fixed frequency air compressor is used

气量变动是空压机容调反空重车，耗损很多电能：

Air flow change is caused as air compressor regulating capacity repeats empty and heavy vehicle, which consumes a large quantity of electric energy;

一日总流量6983m³，一日总耗电985KWh

Total daily flow quantity is 6,983m³ and total daily power consumption is 985KWH

单位用气点 (KWh/m³) 985.4KWh/6983m³=0.1410KWh/m³

Unit airuse point(KWh/m³)985.4KWh/6.983m³=0.1410KWh/m³

年度耗电0.141KWh/m³×8724m³×350t 天=430529KW/年

Annual power consumption:0.141 KWh/m³×8.724m³×350t days=430,529KW/year

年度电费430529KWh/年×1元=430529元/年

Annual electric charge:430529KWh/year×1 RMB=430.529 RMB/year

使用永磁变频空压机

Permanent magnetic brushless variable frequency air compressor is used

运用其宽广调频湖控能力30%-100%的变动供气量可满足工厂温度用气和压力 Its30%-100% variable airdemand with broad frequency modulation regulating capacity can meet stable air use and pressure of the factory

日总流量8724m³，一日总耗电781.4KWh

Total daily flow quantity is 8.724m and total daily power consumption is 781.4KWh 单位用气点 (KWh/m³)

781.4KWh/8724m³=0.089KWh/m³

Unitairuse point:(KWh/m³)781.4KWh/8.724m³=0.089KWh/m³

年度耗电0.089KWh/m³×8724m³×350 天=271752KW/年

Annual power consumption 0089KWh/m³×8724m³×350tdys=271.752KWyear

年度电费271752KWh/年×1元=271752元/年

Annual electric charge:271.752KWh/year×1RMB=271.752RMB/year

使用永磁变频空压机每年节省电费

Permanent magnetic variable-frequency air compressor can annually save electric charge of:

430529元/年-271752元/年=158777元/年

430,529RMB/year-271,752RMB/y=:158777yuanyar

4 预测您的减少支出费用

Now reduced expenditure and expense of yours will be predicted

与我们的专家联系，我们会与您在您的工厂进行详细的评估报告报告，显示出您自前运行成本和使用我们的AM 原列产品后可达到的收益效果In contact with our experts, we will carry out a detailed evaluation report with you at your factory showing the cost of running before and the benefits to be achieved by using our original AM products

精确 Accuracy

在一定范围内，设定空压机功率和压力，根据用气量需求经系统运算驱动电机输出相应转速

来达到相应应用的流量，该永磁空压机使用高性能永磁电机及驱动器使用开环控制，通过反馈系统使系统的调节精确度更高，响应时间更短，提供更快

Within a certain range, power and pressure of air compressor are set, corresponding flow quantity is reached through system operation of governor, responding output rotating speed of servomotor according to demand for air consumption. This servo permanent magnetic air compressor uses high-performance permanent magnetic servo motor and actuator, uses open-loop control, and feedback system makes higher regulation accuracy and shorter response time, and faster system response time and better stability are provided. Air pressure in air supply pipe keeps constant, which can enhance productivity and product quality.

稳定 Stability

此系统在电压波动、负载波动、电磁干扰以及其他特殊运行条件下能维持稳定运行并保证一定的性能指标，工作可靠，对维护和保养要求低。

The servo permanent magnet air compressor uses servo system in voltage fluctuation, load fluctuation, electromagnetic dry energy to maintain stable operation and ensure fixed performance index, reliable work, low requirements for maintenance and maintenance.

节能 Energy conservation

永磁电机扭矩大、效率高。根据实际负载情况调整电流的大小，将发热降至最低，且功率输出能力可达到100%，在最紧凑的空间内发挥出最大能量转化率，高效节能。一般的变频机组相比工频机组节能约为22%，而本公司的永磁空压机相比工频机组节能达35%至40%。

Servo motor is of large torque and high efficiency. According to actual loading situation, current is adjusted to reduce heating to the minimum, power output capacity can reach 100%, in the most compact space, it exerts maximum energy transformation ratio with high efficiency and energy conservation. Ordinary variable frequency unit can save energy by about 22% when compared with power-frequency unit, while servo permanent magnetic air compressor unit in our company can save energy by 35% to 40% when compared with power-frequency unit.

加载卸载 Loading and unloading

通过开环控制，当压力有变时，以最快速度达到需要的转速来提供所需压力值。没有缓慢加载过程及加载时多余的功率损耗。一般的变频器在50%~100%额定转速时调整转速以达到恒压目的，当转速低于50%，而压力超过设定值时，此时机器只能卸载，电机空转，由于使用异步电机，故转速必须大于

等于40%的转速，仍然在损耗一定的功率，消耗不必要的电能。与之相比，电机可调的转速使用范围大，恒压时可使用10%~100%额定转速。当降速到10%以下，机器进入休眠状态，相当没了卸载。重新启动的机器可迅速进入有效的工作转速。Through open loop control when the pressure changes the required speed is reached at the fastest loading speed to provide. The required pressure value. There is no slow load overloading and excess power loss during loading. General Through open loop control when the pressure changes the required speed is reached at the fastest loading speed to provide. The required pressure value. There is no slow load overloading and excess power loss during loading. General When the speed is less than 50% and the pressure exceeds the set value, the machine can only be unloaded, the motor is idle because of asynchronous motor, therefore, the speed must be greater than 40% of the speed still in the loss of a certain amount of work, consume unnecessary electrical energy. By contrast servo motor adjustable speed range is very large, constant voltage can use 10-100% rated speed. When the speed drops below 10%, the machine goes dormant, which is equivalent to on-load. Restart the machine can quickly enter the effective speed of the work.

噪音低 Low noise

对电网无冲击电机启动，加载时的电流平缓上升，没有任何冲击，可使电机精确控制，避免电流波动造成的危害，有利于延长设备的使用寿命。

Starting the servo motor without impact on the power grid, the current when loaded rises slowly, without any impact, it can make the motor accurate control, avoid the harm caused by the current fluctuation, and help to prolong the service life of the equipment.

启动电流小 对电网无冲击 Low start-up current has no impact on power grid

永磁空压机根据用气需要提供能量，无能量损耗，电机运转频率低，机械转动噪音因此变小。因为以精确电机转速的方式，没有反复加载卸载，不存在须繁加卸载时的噪音，持续加压，气压不稳

定产生的噪音可消失。The servo permanent magnet air compressor provides energy according to the need of gas, no loss of energy, low frequency of motor operation, so the noise of mechanical rotation becomes smaller, because in the way of precise motor speed, no repeated loading and unloading is carried out. There is no noise that needs to be loaded and unloaded. The noise generated by the unstable pressure can also disappear when the pressure continues to increase.

永磁变频螺杆式空压机

7.5KW-160KW

SENSORLESS PERMANENT MAGNETIC
VARIABLE-FREQUENCY SCREW
AIR COMPRESSOR 7.5KW-160KW



永磁电机特征：

Characteristics of permanent magnet motor:

高效节能:

Highly efficient and energy-saving

权伟永磁同步电机为IPM 同步电机，采用高效钕铁硼永磁铁，无励磁损耗，经过特殊转子结构设计，大大降低铁损与杂散损耗，整机效率达到E4标准以上，比三相异步电机效率提高5%-10%，功率因数提高10%-15%以上。权伟永磁同步电机在20%-120%负载范围内可保持较高的效率与功率因数，功率因数可为1，三相异步电机只能达到0.86，有效降低了线路损耗，轻载节能更为显著，并提高电网利用率。

Quan Wei permanent magnet synchronous sensorless motor is IPM synchronous motor, adopts high efficiency NdFeB permanent magnet, no excitation loss, through special rotor structure design, greatly reduces iron loss and stray loss, and the efficiency of the whole machine reaches above E4 standard.

Compared with the three-phase induction motor, the efficiency increases 5-10 and the power factor increases more than 10-15%.

Guanwei PMSM can maintain high efficiency and power factor in the range of 20-120% load. The power factor can be 1, and the three-phase asynchronous motor can only reach 0.86, which can effectively reduce the line loss, save energy under light load, and improve the utilization ratio of power network.

在全负载状态下，同步永磁电机可以在最小能耗下产出最大气量，并且当负载率低于20%时，仍然能保证此效率。

Under full load status, synchronous sensorless permanent magnetic motor can produce maximum air flow under the minimum energy consumption, and when load rate is lower than 20%, this efficiency can still be guaranteed.

同步永磁电机在整个气量调节速度范围内始终保持高达95%的运行效率。

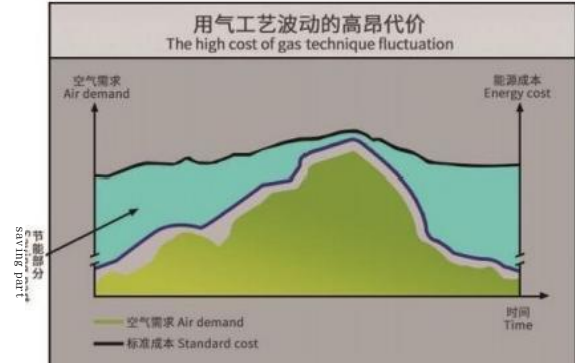
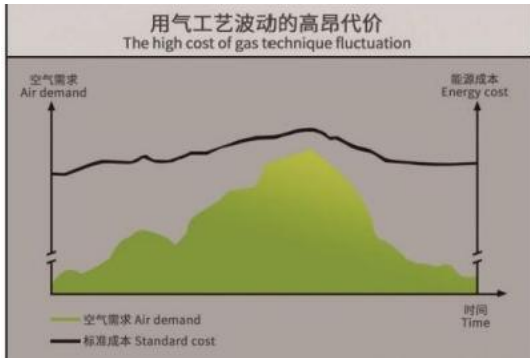
Synchronous sensorless permanent magnetic motor maintain operating efficiency reaching as high as 95% within the whole range of air flow regulating speed.



降低能源成本 Reduce energy costs

当能源占压缩机生命周期成本 (LCC) 达70%以上时, 能耗优化就变得必不可少。事实上, 生产压缩空气的电耗几乎占工厂总电耗的40%以上。能耗优化基学能决定成败。采用的权伟的永磁变频技术, 我们能为您首屈一指的成本节约之路提供合作伙伴。权伟系列产品能真实反映压缩空气需求, 使得大幅度能源节约成为现实。

When energy accounts for more than 70% of the life cycle cost of the compressor, energy consumption optimization becomes essential. In fact, the production of compressed air consumption of almost 40% of the total power consumption of the factory. Energy consumption optimization is the basis for success or failure. Using the Dresdnerlan permanent magnet frequency conversion technology, we can provide you with the most cost saving partners. QW series products can truly reflect the compressed air demand, so that a large amount of energy savings become a reality.



传统压缩机采用以“满载、空载”控制方式, 在两个设定的压力点之间运行。达到最大压力时, 压缩机转为空载。在空气需求中等或较低时, 空载功率会过度消耗, 这会造成能源大量浪费。

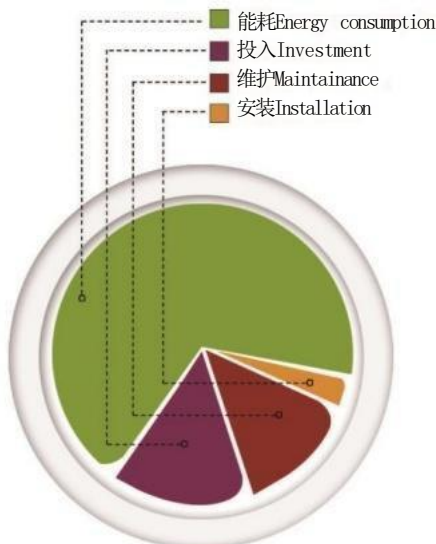
Traditional compressors are operated between two set pressure points using the control methods of "full load and no load". The compressor turns into no load mode when the pressure reaches the maximum. When the air demand is medium or low, the no-load power will be consumed excessively, which will result in large amount of waste.

由于不会产生不必要的功耗, 永磁变频所减少的能源成本可达35%或更多。压缩机的生命周期成本 (LCC) 平均可降低22%。总而言之, 相比定速压缩机, 权伟压缩机的额外成本在1年或2年内即可收回。

Because no unnecessary power consumption will be generated, the energy cost reduced by the permanent-magnetism frequency conversion can be up to 35% or more. The life cycle cost LCC of the compressor can be reduced by an average of 22%. In a word, compared with the compressor with invariable rotate speed, QuanWei compressor can recover the extra cost within 1 or 2 years.

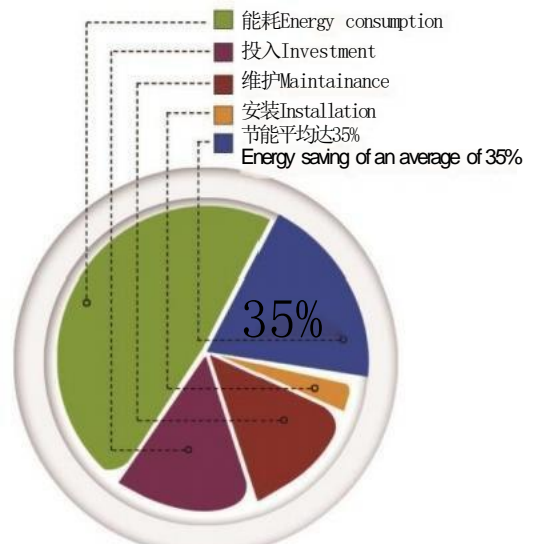
标准压缩机的生命周期成本

Life Cycle Cost of Standard Compressors



权伟压缩机的生命周期成本

Life cycle cost of QuanWei Compressor



拥有并运行一台压缩机的长期成本由资产净值、安装、维修和能源成本组成。选用权伟压缩机解决方案能获得最高投资回报。The long-term cost of owning and running a compressor consists of net asset value, installation, maintenance and energy costs. Select Quan Wei compressor solutions to achieve the highest return on investment.

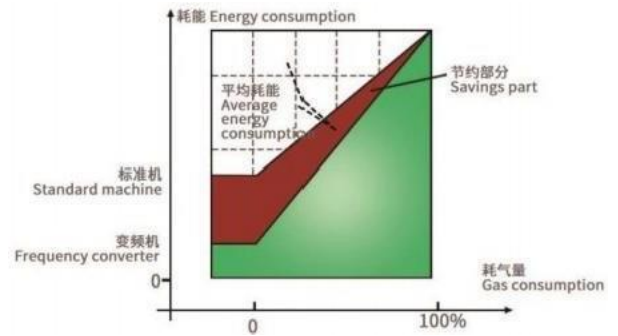
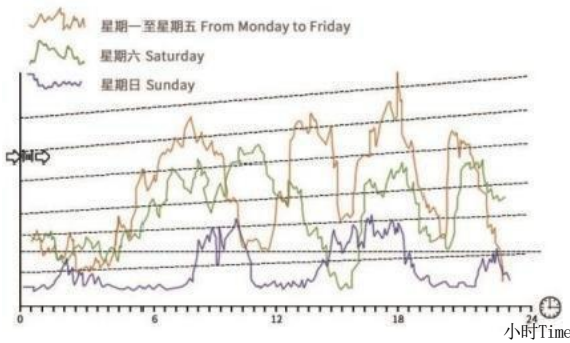
节能Energy Saving

传统的压缩机(标准机)通常采用ON/OFF 或比例调节系统, 通过调节压缩机进气口的开口量来对气量进行调节。该调节方式也可以较好地满足实际用气量的要求, 但在整个调节过程中, 压缩机的转速保持在额定转速, 机器消耗的摩擦功、冷却液搅拌功等不会减少, 因此虽然用气量下降, 但实际功耗降低非常有限。而变频调节能使变频压缩机实际功耗接近于同比例下降, 能量有效地被利用于空气的压缩上

Traditional compressors (standard machines) usually use ON/OFF or proportional adjustment system, by adjusting the opening of compressor intake to adjust the volume of gas. The regulating method can also meet the requirements of actual air consumption. However, in the whole adjustment process, the speed of the compressor is kept at the rated speed, and the friction power consumed by the machine and the stirring power of the coolant are not reduced, so although the amount of gas used is reduced, But the actual power consumption reduction is very limited. The frequency conversion regulation can reduce the actual power consumption of the inverter compressor in the same proportion, and the energy can be effectively used in the compression of the air.

某客户用气负荷变化图

The gas load variation diagram of a client



压力平稳Steady Pressure

自动跟踪系统气量的变化, 采用PID(比例、微分、积分)方式精确调节压缩机的转速, 使系统压力维持稳定。

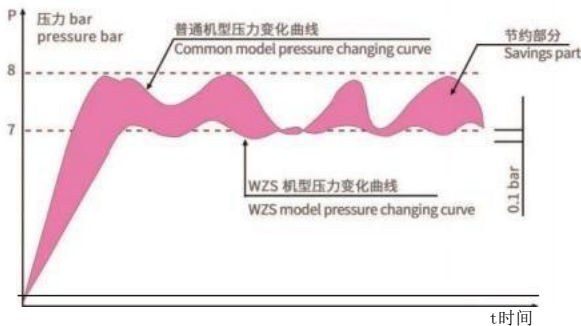
It tracks system gas volume changes automatically, and adjusts the revolving speed of compressor accurately with the use of PID (proportional, differential, integral), to keep the system pressure stable.

启动无冲压Start-up without stamping

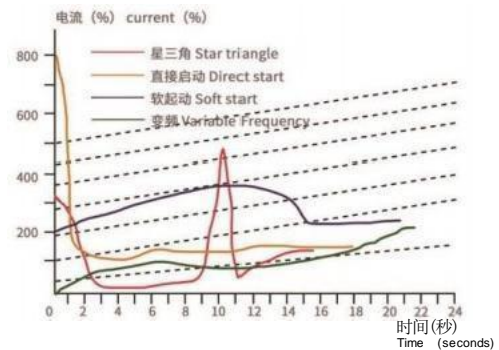
变频启动方式大大降低了压缩机的启动对电网及机械部分的冲击, 延长了机器的寿命。

Frequency conversion start-up greatly reduces the impact of compressor start-up on the power grid and mechanical parts, and prolongs the life of the machine.

压力变化图Pressure variation diagram



启动电流表Table of starting current



QA效率最大化, 节能QA/Maxi n efficiency, energy saving

在竞争激烈的市场环境中是否降低成本是你需要考虑的一个重要的问题。采用PM 变频技术您能节约能源, 从而大幅度减少电费支出。根据精确的空气需求自动调压缩机生产能力, 您只需要最低限度的的能量, 由此节约的能源对您有益, 也对环境有益。

Whether or not to reduce costs in a competitive market environment is an important issue to consider. Using PM frequency conversion technology you can save energy, thus greatly reducing the cost of electricity. According to the accurate air demand automatically adjusts the compressor production capacity, you only need the minimum energy, thus saves the energy to be beneficial to you, also is beneficial to the environment.

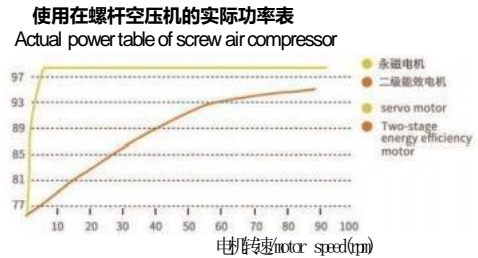
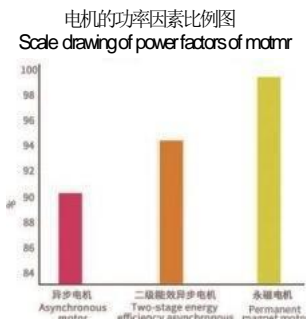
权伟产品通过下列方式降低能源成本:

QuanWei products reduce energy Costs in the following ways:

● 消除从满载功率到空载功率的无效过渡期
Elimination of the invalid transition period load
避免空载功率消耗
Avoid excessive no-load power consumption
维持净压力段
Maintain the net pressure section

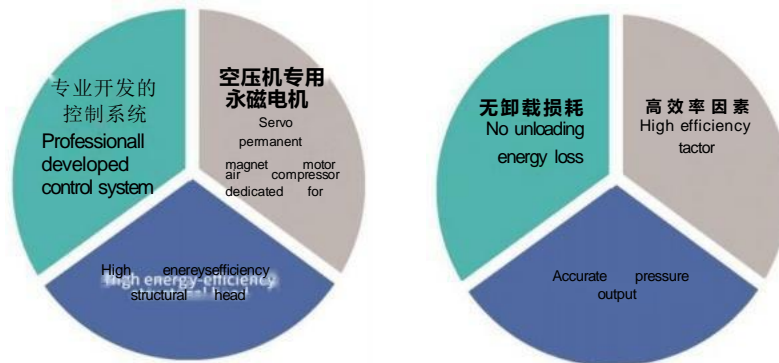
降低总体平均运行压力
Reduce the overall average operating pressure
系统压力较低,造成的系统泄露也能降至最低
System pressure is low,making the system leak declinde to a minimum
采用软启动电机逐渐加速,提高灵活性,从而避免电涌
The soft start motor is used to speed up gradually and improve the flexibility,To avoid the surge

权伟自主研发的永磁螺杆空压机是高效的节能产品,对空压机的能效有了新的突破,比常规空压机的效率提高35%以上。
Quan Wei self-developed servo permanent magnet screw air compressor is the most efficient energy-saving products, the air compressor energy efficiency has a new breakthrough, compared with the conventional air compressor efficiency increased by more than 35%.



永磁空压机的节能要素

Energy saving elements of permanent magnet air compressor



高效率的永磁同步电机

High-efficiency permanent magnetic synchronous servo motor

权伟电机与国内外同类相比具有很高的力矩/体积和功率比,低速时具有最好的稳定性,从而克服机械传动装置的诸多限制,使众多的应用场合采用直接驱动技术。满足高端机械设备对精度、速度和效率的要求,满足了用户对节能和环保的苛刻要求。权伟系列产品,设计耳力矩从1NM-10000NM,额定功率从50W到60W,将势必成为中国功率规格系列最高性能系统产品,并可以直接地和全面地取代进口系统产品。

采用成熟的永磁电机结构、制造技术、磁铁为钕永磁铁被称为“永磁王”,是目前磁性最高的永磁材料,且磁钢经过特殊处理后可在较高的温度下长期工作而不会出现退磁的现象,无轴承的电机结构省却了轴承定期保养与更换的麻烦。

The power servo motor has a high torque/volume and power ratio compared with the domestic and foreign similar, and has the best stability at low speed, which overcomes many limitations of mechanical transmission and makes many applications adopt direct drive technology. Meet the requirements of precision, speed and efficiency of high-end mechanical equipment, and meet the stringent requirements of energy saving and environmental protection. Quan Wei series products, design ear torque from 1NM-10000NM, rated power from 50W to 60W, will certainly become the most powerful high performance servo system products of Chinese power specification series, and can directly and comprehensively replace imported servo system products. Using mature permanent magnet servo motor structure, manufacturing technology, the magnet is called "permanent magnet king", and it is the most magnetic permanent magnet material at present. After special treatment, the magnetic steel can work at high temperature for a long time without the phenomenon of magnetization. The bearingless motor structure saves the trouble of bearing maintenance and replacement on a regular basis.

解决方案分析

ANALYSIS OF SOLUTION

权伟电机在螺杆式空压机行业经过几年的酝酿，已经成功批量供货给东南亚及欧美市场，以下是普通螺杆式空压机系统图：

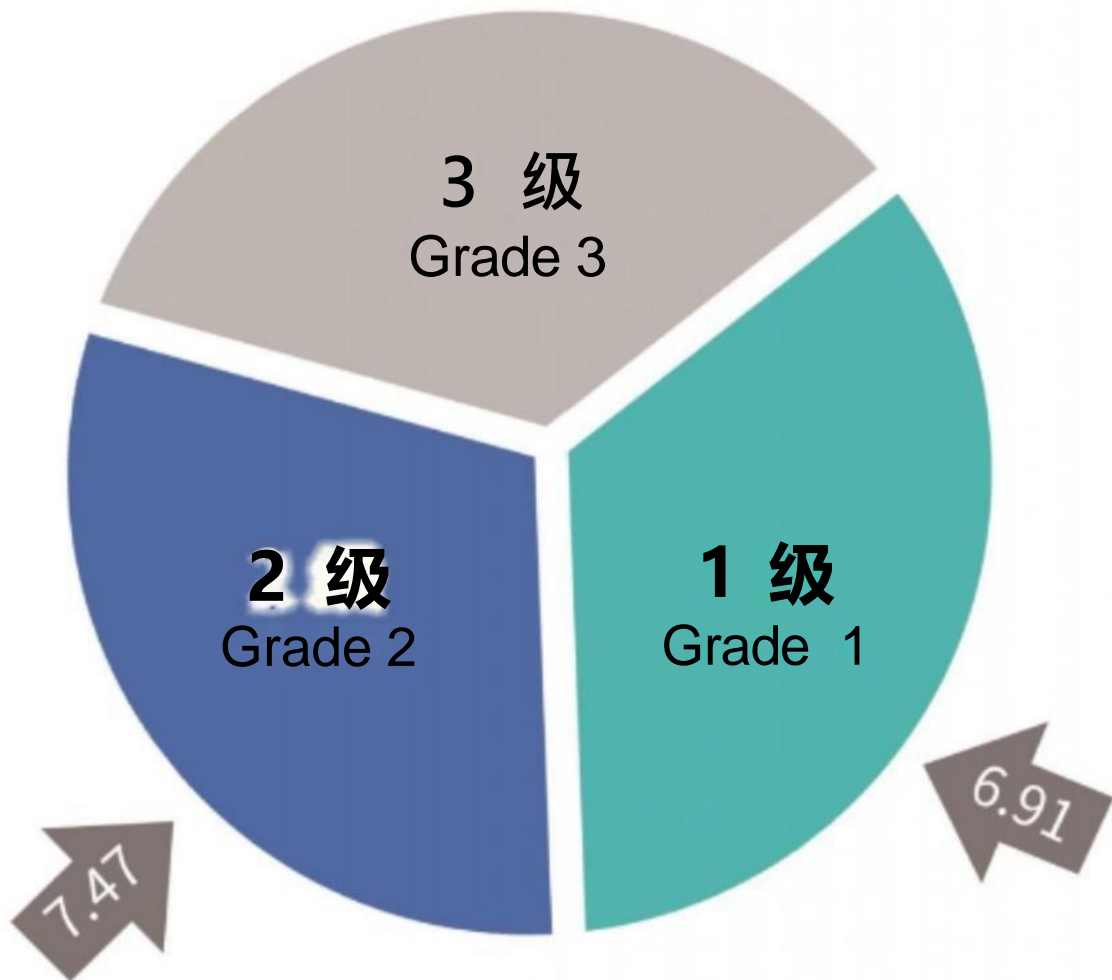
Through several years of development in the field of air compressor, QuanWei servo motor has successfully been supplied to South Asia, European and American markets in batches, and the following is system diagram of ordinary screw air compressor:

而普通异步工频机型组输入功率测得为 $p_i=43.64\text{kw}$ ，其整机的输入比功率为： $q_i=p_i/Q_o=43.64/5.84=7.47$

Input power of Shantong asynchronous power-frequency model is measured as $p_i=43.64\text{kw}$ and input specific power of its complete machine is: $q_i=p_i/Q_o=43.64/5.84=7.47$

根据最新的《GB15193-2009 容积式空气压缩机能效限定值及能效等级》中螺杆式空气压缩机的标准，1级能效为输入比功率 $q_i < 7.2$ ，2级能效为输入比功率 $7.2 < q_i < 8$ ，因此永磁同步机型为1级能效，而普通异步工频机型只能达到2级能效。

According to standard of screw air compressor in the latest Energy efficiency Limit Value and Grade of GB15193-2009 Positive Discharge Air Compressor grade 1 energy efficiency is input specific power $q_i < 7.2$ and grade 2 energy efficiency is input specific power $7.2 < q_i < 8$. So permanent magnetic synchronous model is grade 1 energy efficiency while ordinary asynchronous power-frequency model can only reach grade 2 energy efficiency.



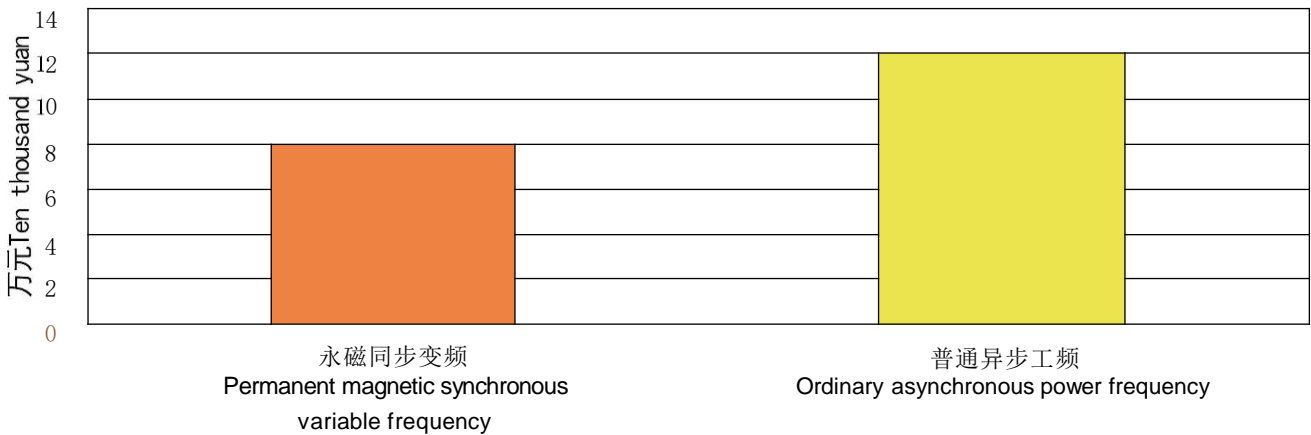
节能效果

ENERGY-SAVING EFFECT

同样按前面额定功率37kw 的两种机型，在负载率只有60%时，普通进气节流控制的工频机型的输入功率为38.2kw。而永磁同步机型的轴功率为23.6kw 节电率达到37.5%如果按每年4000小时计算，普通异步工频机型每年的电费开销为10.72万元，而如果改用永磁同步机型的话，每年的电费则为6.58万元，每年节省的电费为4.14万元。

When the negative cutting rate is only 60%, the input power of the conventional intake throttling control model is 38.2 kw.And the permanent magnet synchronous servo model has a power saving rate of37.5% for23.6kw. If 4000 hours a year,The average asynchronous power-frequency model costs RMB 107200 a year, if the permanent magnet synchronous servo is used.The annual electricity bill is RMB 65800 and the annual savings are RMB 41400.

年用电费用(元) Annualelectric charge(yuan)



永磁变频技术与非变频的节能差异

Energy Saving difference between Servo permanent Magnet Frequency conversion Technology and Non-Frequency conversion

假设条件: Assumptions:

平均负载70%(即重车时间70%),每年运传8000小时，每度(KW/h) 电费0.7元人民币计算，工频机组按照一般设定，永磁变频机组达到最低转速时，设定0分钟转为待机状态。The average load of 70 yuan (that is, 70 hours of heavy load,8000 hours of transportation per year, KW /h)the electricity rate of 0.7 yuan, according to the normal set, servo hydro magnetic change unit to the minimum speed, set 0 minutes to standby state.

节能计算: 节省空车运转的至少能耗+节省加载过程所需的能耗+恒压能耗。

Energy saving calculation: saving at least energy consumption of empty car operation + saving energy consumption of loading process + constant pressure energy consumption.

与工频组相比较，永磁变频机组每年节约金额如下表:

Compared with the power frequency group, the annual savings for servo permanent magnet frequency conversion units are as follows:

功率(KW) power	15	22	30	37	55	75	90	110	132
省电(元/年) Power saved (RMB/year)	15800	22669	30912	38125	56672	77282	92736	113344	138000

永磁变频机组与非变频机组比较，若排气量(%)稳定在50%时，节能比例约为23%，若需求量起伏更大或用气量(%)更低时，节能效益就会大于23%。

Compared with non-variable-frequency unit,for servo permanent variable-frequency unit,when air discharge(%)is stabilized at 50%,energy-saving proportion is about 23%.If fluctuation of quantity demanded is bigger or air consumption(%) is lower,energy-saving benefit will be greater than 23%.

判断空压机节能的唯一标准是：输入比功率

国家能效标准的制定也是根据输入比功率来划分

GB19153-2009空压机能效限定值及能效标准(节选) 工况：排风压力0.8Mpa风冷															
能效等级	7.5kw	11kw	15kw	22kw	37kw	55kw	75kw	90kw	110kw	132kw	160kw	220kw	250kw	315kw	355kw
	比功率(kw/m ³ /min)														
1	7.9	7.9	7.4	7.2	7.2	6.5	6.5	6.5	6.3	6.3	6.3	5.9	5.9	5.9	5.4
2	8.9	8.9	8.4	8.1	8.1	7.3	7.3	7.3	7.1	7.1	7.1	6.6	6.6	6.6	6.1
3	10.2	10.2	9.5	8.9	8.9	8.4	8.4	8.4	8.1	8.1	8.1	7.9	7.9	7.9	7.1
T	10.1	10.1	9.4	8.8	8.8	8.3	8.3	8.3	8.0	8.0	8.0	7.8	7.8	7.8	7

国标GB19153-2009对容积式空气压缩机的输入比功率做了详细的定义和解释：在规定工况下，空压机的输入功率与空压机的实际容积流量之比值，单位kw/(m³/min)。

计算公式为
$$\text{比功率(kw/m}^3\text{/min)} = \frac{\text{机组输入功率(kw)}}{\text{排气量(m}^3\text{/min)}}$$

已知比功率空压机耗电量的算法

项目	标称功率	排气量	输入比功率
单位	kw	m ³ /min	kw/m ³ /min
A空压机	37	6.5	7.2(一级能效)

每小时耗电量为：7.2×6.5=46.5kwh

国标一级能效标准

下表列出了在标准工况下相同功率不同比功率的机器节能情况

GB19153-2009空压机能效限定值及能效标准(节选) 工况：排风压力0.8Mpa风冷															
功率段	7.5kw	11kw	15kw	22kw	37kw	55kw	75kw	90kw	110kw	132kw	160kw	220kw	250kw	315kw	355kw
	11.24%	11.24%	11.90%	11.11%	11.11%	10.96%	10.96%	10.96%	11.27%	11.27%	11.27%	10.61%	10.61%	10.61%	11.48%
1	22.55%	22.55%	22.11%	19.10%	19.10%	22.62%	22.62%	22.62%	22.22%	22.22%	22.22%	25.32%	25.32%	25.32%	23.94%

上述参数可能因技术更新而变动，请至台湾权伟集团螺杆空压机微信公众号查询最新信息

磁钢Magnetic steel

冲片采用高性能低损耗矽钢片，通过有限元方法进行机械强度的模拟分析，在保证提供足够的机械刚度和机械强度，使转子的惯量达到最小；

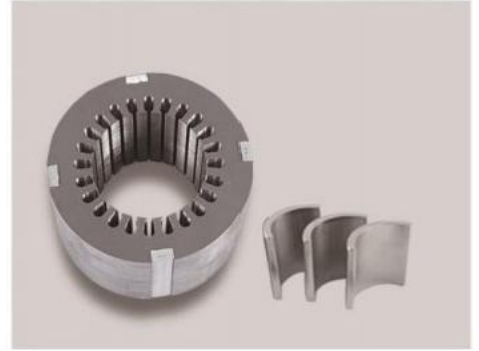
Punching uses high-performance low-loss silicon, we conduct simulation analysis of mechanical strength with finite element method so as to make rotator inertia reach the minimum on the condition that enough mechanical rigidity and mechanical strength.

转子磁钢采用高性能钕铁硼永磁材料形成正弦波气隙磁场；

Rotator magnetic steel adopts high-performance NdFeB permanent magnetic material to form sine wave air-gap field.

出轴采用埋键加工的方法，同时满足光轴和键轴的要求。

Axial flow uses the processing method of embedded bond, which simultaneously meets requirements of optical axis and bond axis.



绕组Winding

冲片采用高性能低损耗矽钢片；

Punching uses high-performance low-consumption silicon steel sheet;

漆包线绝缘等级C级，整体绝缘F级；

Insulation grade of enameled wire is grade C and integral insulation is grade F;

外壳使用高强度的铝型材外壳，外形和风道经过有跟元温度场分析最后优化确定，温度梯度大，散热效果好。

Shell uses high-intensity aluminum profile shell, appearance and air flue are confirmed by final optimization through finite element temperature field analysis with large temperature gradient and good heat dissipation effect.



SKF-轴承SKF-bearing

SKF轴承是世界轴承科技与制造的领导者，持续致力于轴承工业的研究与发展，是世界轴承的第一品牌。与其它品牌轴承相比，具有良好的耐磨性、优异的抗疲劳性、强大的耐腐蚀性，舒适的静音性，使得永磁同步无感电机寿命更长、可靠性更高、噪音更低。

SKF bearing, a leader of world bearing technology and manufacturing, has been persistently dedicated to research and development of bearing industry and it is a first-class bearing brand in the world. Compared with bearings of other brands, it has good abrasive resistance, superior fatigue resistance, strong corrosion resistance and comfortable muting property, making longer service life, higher reliability and lower noise of permanent magnetic synchronous non-inductive motor.



永磁电机Permanent magnetic motor

结构合理，功率密度高；

Reasonable structure and high power density;

转子惯量非常小，响应速度非常快；

Very small rotator inertia and very fast response speed;

超高内禀矫顽力稀土永磁材料，抗去磁能力强；

Ultrahigh intrinsic coercive rare earth permanent magnetic material with strong anti demagnetizing capacity;

在堵转和额定转速范围内可恒转矩输出；

Possible constant torque output within scope of locked rotator and rated rotating speed;

特殊的不对称磁路设计，使得低速转矩脉动小；

Special asymmetrical magnetic circuit design, making low-rotating-speed torque ripple small;

平衡精度高、高速运行平稳、噪音低、振动小；

High balancing precision, stable and high-speed operation, low noise and small vibration;

全密封或高防护等级外形结构设计。

Full-sealed or high protection-grade appearance structural design.



无以伦比的可靠性: Incomparable reliability:

卓越的技术：混合永磁电机革命性独特的永磁结构，利用更少的电能提供更多的压缩空气和更大的气量调节范围，跟工频空气压缩机相比，节能15%-38%，跟普通变频相比，节能5%-10%，系统用气量波动越大，节能效果越明显。

Excellent technology: mixed permanent magnetic motor has unique permanent magnetic structure of revolutionary character, and it uses less electric energy to provide more compressed air and broader range of air flow regulation. Compared with power-frequency air compressor, it saves energy by 15%-38%. Compared with ordinary variable frequency, it saves energy by 5%-10%, and the greater air flow fluctuation of the system, the more obviously energy-saving effect.

工况节能: Working conditions of energy conservation

永磁电机能在低速时仍保持极佳的电机效率，保证了在用气量小的时候，具有很明显的节能优势，变频范围可从5%-100%，普通变频只能从50%-100%。

Non-inductive permanent magnetic motor can maintain high motor efficiency at low speed it has obvious energy-saving advantages when air consumption is small, frequency converting range is from 5% to 100% while ordinary variable frequency can only be adjusted within 50%-100%.

普通变频空气压缩机仅节省系统卸载时的能耗(变频节能)

(Ordinary variable-frequency air compressor only saves energy consumption (variable-frequency energy conservation) when the system unloads)

根据固定式空气压缩机在用气量波动是，会有卸载的时。这时空转但还消耗45%的电能，而用MPV系列永磁空压机为变频式控制，可以没有卸载，不存在浪费，如兵系统台数越多，节能果越多。

As there will be unloading time when fixed air compressor has fluctuation of air flow, at the moment, it is idling, but it still needs to consume 45% electric energy, while MPV series of non-inductive permanent magnetic air compressor is of variable-frequency control, it may not need to unload without any waste. The greater the number of machines in the system, and the better the energy-saving effect will be.

节省控制压力带宽浪费的电能(变频节能) Save electric energy wasted by control pressure bandwidth(variable-frequency energy conservation)

固定式空气压缩机为了避免频繁启动而造成对机组，对电网的冲击，必须设置一个最小为1Bar的控制压力带(既上下限)，几台机器一起使用时需要有一个压力梯度，系统的压力带就更宽了，而MPV系列永磁空压机为变频控制，可以无限次启停，故无需设置压力带，设一个压力点就行，每节0.41b的压力带，系统可节省5%-7%。

In order to avoid impact on unit and power grid caused by frequent starting, fixed air compressor must set a minimum 1 Bar control pressure band (namely upper and lower limit), when several machines are simultaneously used, a pressure gradient is needed, then pressure band of the system will be broader, while MPV series of non-inductive permanent magnetic air compressor is of variable-frequency control, it can infinitely start and stop, so it's not necessary to set pressure band, only needing to set a pressure point. Once pressure band saves 0.41 b, the system can saves by 5%-7%.

节省启动时的能耗(变频节能)

Save energy consumed when it is started (variable-frequency energy conservation)

固定式空气压缩机启动时电流为额定工作电流的3-6倍左右，若频繁启动则会浪费大量电能。MPV系列永磁空压机启动没有电流冲击，且启动时为软启动，最大电流不超过定工作电流，没有能源浪费，同时也大大减小了对电网设备的冲击不会对用电设备造成损害。When fixed air compressor is started, the current is about 3-6 times of rated operational current, if it is frequently started, it will waste a large quantity of electric energy. There is no current impact when MPV series of non-inductive permanent magnetic air compressor is started, and it is soft start with maximum current not exceeding rated operational current and without energy waste, in the meantime, it greatly reduces impact on power grid equipments, and it will not harm electric equipment.

永磁电机

PERMANENT MAGNET MOTOR

【主要特点】

MAIN FEATURES

高效节能

Highly efficient and energy saving

采用高性能稀土永磁材料，采用特殊定子槽形与转子结构，使得该电机效率达到IE4标准。

It uses high-performance rare-earth permanent magnetic materials, special stator groove shape and rotor structure, thus efficiency of this motor reaches IE4 standard.

高性能

High performance

转动惯量更小，启动转矩大，运行频率更宽。

Smaller rotational inertia, large starting torque and broader operating frequency.

可靠性高

High reliability

电流减小，升温降低，电机寿命更长。

Lowered current, reduced temperature rise and longer motor service life.

小型轻量

Small size and light weight

比同功率异步电机缩小1至2个机座号，体积更加紧凑。

Shrink by 1-2 seat No. with more compact volume when compared with asynchronous motor of the same power.

适用性强

Strong applicability

可用于各种恶劣工程，甚至长时间低速运转、频繁启动等场合。

It can be applied to all kinds of severe working conditions, and it even can operate at low speed for a long time and be frequently started.

模块化设计

Modular design

可灵活配置多种模型如独立驱动风扇，编码器，制动器等。

It can be flexibly configured with multiple modules such as independent drive fan, encoder, brake, etc.

控制简单

Simple control

采用变频矢量控制方式，控制精度高并减少故障环节。

It uses variable-frequency vector control mode with high control precision and reduced breakdown links.

通用性强

Strong universality

与异步电机结构相同，可直接替代异步电机。

It has the same structure with asynchronous motor, and it can directly replace asynchronous motor.

ZBY 系列双螺杆主机高效永磁电机驱动特点：

ZBY series twin screw mainframe high efficiency permanent magnet motor drive characteristics:

永磁电机采用高性能钕铁硼永磁体，200度不失磁，使用寿命超15年。

定子线圈采用变频器专用真空压力无溶剂3层漆膜漆包线，具有极强的耐潮、耐湿、耐压性能、绝缘性能、机械强度、以及耐湿热应力卓越，使用寿命更长，最小击穿电压为4800V。

SKF-轴承：SKF轴承是世界轴承科技与制造的领导者，与其它品牌轴承相比，具有良好的耐磨性，优异的抗疲劳性，强大的耐蚀性，舒适的画静音，使得无感永磁电机寿命更长，可靠性更高，噪音更低。能够实现软启动，运行时，电机电流不会超过满载电流，同时大大减少了对电网设备的冲击，不会对用电设备造成损伤。没有电机轴承：带有永磁体的转子直接安装在正转子的伸出轴上。这种结构无需使用轴承，从而消除了电机轴承故障点。

Permanent magnet motor with high performance NdFeB permanent magnet 200 degrees without loss of magnetic life more than 15 years.

The stator coil adopts three layers of enamelled wire with special vacuum pressure and no solvent for Frequency converter. It has extremely strong resistance to moisture, voltage, insulation, mechanical strength, hygrothermal stress, longer service life, and the minimum breakdown voltage is 4800V.

SKF-bearing: SKF bearing is the world leader in bearing technology and manufacture. Compared with other brand bearings, it has good wear resistance, excellent fatigue resistance, strong corrosion resistance, comfortable silent drawing, and makes the life of sensorless permanent magnet motor longer. Higher reliability and lower noise. Can achieve soft start, when running, the motor current will not exceed full load current, at the same time greatly reduce the impact on the power grid equipment, will not cause damage to the electrical equipment. No motor bearings: a rotor with a permanent magnet is mounted directly on the protruding shaft of the positive rotor. This structure does not need to use bearings, thus eliminating the motor bearing fault point.

电机的技术特点 Technical features of servo motor

1. 防护等级: IP54
Protection grade: IP54
2. 失速转矩: 2.5倍以上
Stall torque: 2.5 times
3. 调速范围: 1:100
Speed range: 1:100
4. 调速精度: 0.01% (带编号器)
Speed regulation precision: 0.01% (Numbered device)
5. 高效率: 95%-97%
high efficiency: 95%-97%
6. 超高内禀矫顽力稀土永磁材料
Ultra-high intrinsic coercivity rare earth permanent magnetic material
7. 绝缘等级: F级
Insulation grade: class F
8. 平衡精度高、过载能力强、调速范围宽、转动惯量低、响应快、噪音低、振动小
High balance precision, strong overload capacity, wide speed range, low moment of inertia, fast response, low noise and small vibration.
9. 温度保护支持PTC150、KTY84、标配欧标航空插头和旋转变压器，控制转矩转速平稳
Temperature protection supports PTC150, KTY84, standard European standard aeronautical plugs and rotary transformers, stable control torque and rotational speed.



权伟永磁变频螺杆空压机技术规格表

Technical specifications of Quanwei permanent magnet variable frequency screw air compressor

永磁系列(一体)

机型/Model	排气压力/	QWL-10ZBY	QWL-20ZBY	QWL-30ZBY	QWL-40ZBY	QWL-50ZBY	QWL-60ZBY
排气量 m ³ /min	0.7	0.9-1.81	1.05-2.4	1.0-3.9	1.4-5.5	1.75-6.8	2.35-7.8
	0.8	0.83-1.68	1.0-2.2	0.95-3.7	1.25-5.2	1.65-6.4	2.05-7.5
	1.0	0.73-1.47	0.9-1.8	0.8-3.3	1.05-4.1	1.55-6.0	1.75-7.0
	1.3	0.62-1.25	0.75-1.5	0.7-2.8	1.0-3.9	1.25-5.2	1.45-5.9
噪音 dB(A) Noise Level/dB(A)		58±3	60±3	62±3	62±3	62±3	62±3
机组净重(kg) Weight(kg)		250	350	450	580	650	780
功率 Power/KW		7.5	15	22	30	37	45
外形尺寸 External dimensions	长L(mm) length L(mm)	850	950	1000	1000	1200	1200
	宽W(mm) Winth W(mm)	750	800	950	950	1120	1120
	高H(mm) Height H(mm)	930	1100	1220	1220	1400	1400
出口管径 Outlet diameter		G1/2"	G3/4"	G1"	G1"	G1 1/2"	G1 1/2"

备注:

ZBY为风冷型, 本系列产品支持变频机型, 水冷型可定制。

噪音等级按照ISO2151/Pneuro/CagiPn8NTC2 标准测试公差: 3dB(A)

风冷机型≤环境温度+15℃水冷机型供气温度≤40℃ 电机电压: 380V频率50Hz

Remarks:

ZBY is air-cooled. This series of products support variable-frequency models, and water-cooled models can be customized.

Noise level according to iso2151/pneuro/cagipn8ntc2 standard test tolerance:3dB(a)

Air cooled model ≤ambient temperature+15℃water cooled model air supply temperature ≤40℃motor voltage: 380Vfrequency 50Hz

权伟永磁变频螺杆空压机技术规格表

Technical specifications of Quanwei permanent magnet variable frequency screw air compressor

永磁系列(分体)

机型 / Model	排气压力 / MPa	QWL-207B	QWL-307B	QWL-40/BY	QWL-507B	QWL-607B	QWL-757BT	QWL-1007B	ML-1257B	QL-150ZBY	QWL-175/B	QWL-2002BY	QWL-250/B	QWL-275/6L	QSL-300/8L	ML-335/BT	ML-3757BY	QWL-425/B
排气量 m ³ /min	0.75	0.7-2.4	1.0-3.9	1.4-5.3	1.75-6.8	2.35-7.8	2.6-10.5	3.7-14.8	4.3-17.2	5.5-21.1	6.0-24.1	14.5-29.2	16.0-32.5	17.4-35.8	18.5-38.0	22.5-45.5	25.3-50.5	29.5-59.8
	0.85	0.65-2.2	0.95-3.7	1.25-5.0	1.65-6.4	2.05-7.5	2.25-10.3	3.05-12.1	4.25-17.1	4.95-19.8	5.5-22.0	14.2-28.8	15.5-31.5	16.0-32.5	17.2-35.5	21.7-43.6	25.0-50.0	29.0-58.0
	1.0	0.5-1.5	0.8-3.0	1.05-4.1	1.55-6.2	1.75-7.0	1.94-9.1	2.55-11.3	3.65-14.5	4.05-17.0	4.60-18.5	13.2-26.5	13.5-27.5	14.0-29.0	16.0-32.0	19.5-39.5	21.0-42.0	24.5-49.0
	1.3	0.62-1.25	0.7-2.6	1.0-3.9	1.25-5.0	1.45-5.9	1.85-8.5	1.85-9.8	3.0-12.0	3.75-14.5	4.45-17.8	11.2-22.5	12.2-24.5	13.0-26.0	14.2-29.5	17.5-36.0	19.0-39.5	21.0-42.0
噪音dB(A) Noise Level/dB(A)	60±3	62±3	62±3	62±3	62±3	64±3	64±3	66±3	66±3	68±3	74±3	74±3	74±3	78±3	78±3	80±3	80±3	
机组净重(kg) Weight (kg)	420	500	610	700	840	950	1100	1550	1860	2000	3600	3800	4500	4800	5500	6000	6500	
功率 Power/KW	15	22	30	37	45	55	75	90	110	132	160	185	200	220	250	280	315	
外形尺寸 Dimensions	长L(mm) length L(m)	1150	1350	1350	1500	1500	1900	1900	2200	2460	2460	2950	2950	3000	3000	3000	3000	3700
	宽W(mm) Width W(mm)	800	900	900	1000	1000	1260	1260	1500	1670	1670	1900	1900	2200	2200	2200	2200	2300
	高H(mm) Height H(mm)	1100	1230	1230	1400	1400	1400	1400	1670	1700	1700	2000	2000	2200	2200	2300	2300	2250
出口管径 Outlet diameter	G3/4"	G1"	G1"	G1 1/2"	G1 1/2"	G2"	G2"	DN50	DN80	DN80	DN80	DN80	DN80	DN100	DN100	DN100	DN125	DN125

备注:

ZBY为风冷型, 本系列产品支持变频机型, 水冷型可定制。

噪音等级按照ISO2151/Pneuro/Cagipn8ntc2标准测试公差: 3dB(A)

风冷机型≤环境温度+15℃ 水冷机型供气温度≤40℃ 电机电压: 380V频率50Hz

Remarks:

ZBY is air-cooled. This series of products support variable-frequency models, and water-cooled models can be customized.

Noise level according to iso2151/pneuro/cagipn8ntc2 standard test tolerance: 3dB(a)

Air cooled model ≤ ambient temperature + 15 °C water cooled model air supply temperature ≤ 40 °C motor voltage: 380V frequency 50Hz

两级压缩永磁变频 螺杆式空压机

TWO-STAGE PERMANENT
MAGNETIC VARIABLE-FREQUENCY
SCREWAIR COMPRESSOR



品质主机

Quality air end

至臻完美的高效主机 Perfect efficient air end

- 转子采用世界领先的高效型线，铸就稳定的高效率主机；
 - 采用两级独立压缩、等压比、低转速设计，同等功率下气量提升15%以上；
 - 每一级低压缩比保证、主机泄露更小、容积效率更高；
 - 级间采用油雾喷淋冷却，使整个压缩过程接近等温压缩，提高压缩绝热效率；
 - 两段转子分别通过斜齿轮直接驱动，使得每段转子获得最佳线速度，压缩传递效率最高；
 - 转子、轴承受力小，主机持续运转的高寿命保证。
-
- Rotor adopts the world's leading high-efficiency line to cast a stable, high-efficiency air end;
 - Two stage independent compression, isobaric ratio and low speed design are adopted. The gas volume is increased by more than 15% under the same power;
 - Each stage of low voltage ratio guarantee, air end leakage smaller, volume efficiency is higher;
 - Oil spray cooling is used between stages, which makes the whole compression process close to isothermal compression and improves the compression adiabatic efficiency;
 - The two sections of rotor are driven directly by helical gears respectively, which makes each rotor obtain the best linear speed and the highest compression transfer efficiency;
 - High Life guarantee of rotor and bearing with small load and continuous Operation of air end.



节能成本 Energy conservation cost



精于节能品质卓越

Skillful in energy saving excellent quality

高效节能

—两级压缩空压机终身价值传递

High efficiency and energy saving, Life-long value transfer of Two-stage Compression Air Compressor

高效节能螺杆主机

High efficiency and energy saving screw air end

主机采用大转子、低转速设计，内涵两个独立压缩单元。高效、低噪音、低振动高可靠性，每级压缩比小，泄漏更小，容积效率高。相同功率下由两个机头承担符合，周承受力小，寿命更长。

The air end is designed with large rotor speed and low speed, with two independent compression units. High efficiency, low noise, low vibration, high reliability, low compression ratio per stage, less leakage, high volume efficiency. Under the same power, the two air ends bear the coincidence, the weekly bearing capacity is small, and the life is longer.



高效节能永磁电机

High efficiency and energy saving permanent magnet motor

主电机是根据空压机应用的需要精心选择的防护等级IP55高效节能永磁电机，全部达到国际一级能效标准，扭矩和负载都能满足特殊设计标准，以便负载条件下电机效率和功率系数最优化。这个优化的系数相比其他电机效率大约有5%-8%的优势。

The main motor is an IP55 high efficiency and energy saving permanent magnet motor which is carefully selected according to the need of the application of the air compressor. All of them meet the international first class energy efficiency standard, and the torque and load can meet the special design standard. In order to optimize motor efficiency and power coefficient under load conditions. This optimized coefficient is about 5-8% more efficient than other motors.



高效节能过滤系统

High efficiency and energy saving filtration system

高效油气分离器，特殊的筒体设计聚集式分离芯以及回油装置的组成，使用寿命6000小时，油过滤器，低压设降设计，使用寿命高达4000小时，高过滤精度有效保护轴承和螺杆机转子。空气过滤器，进行过滤时不用改变空气流动方向，直接穿过过滤媒介，减少压力损失，比传统空气过滤器更节能，过滤面积大，精密度更高，寿命更长。

High efficiency oil and gas separator, special simplified design, aggregate separation core and composition of oil return device, service life 6000 hours, oil filter, low pressure drop design, service life up to 4000 hours, High filtration accuracy effectively protects bearings and screw rotors. Air filter, without changing the direction of air flow, directly through the filter medium, reduce pressure loss, more energy saving than traditional air filter, larger filter area, higher precision, longer life.



绝佳设计的冷却系统

Perfectly designed cooling system

采用高效翅片式大换热面积冷却器，换热量盈余30%，冷却效果更加，可在环境温度45℃下正常工作。

Adopting high-efficiency fin type large heat transfer area cooler, the heat transfer surplus is 30%,the cooling effect is more effective, and it can work normally at 45℃ ambient temperature.



节能进气控制系统

Energy saving air intake control system

专业化设计的新型一体式进气阀，进气调整范围0-100%，容调阀调节，压力损失小，动作稳定，寿命长，进气阀关键零件电磁阀采用国际知名品牌，保证螺杆压缩机的绝对运转安全和经济控制。

Professional design of a new integrated airintake valve, intake adjustment range 0-100,tolerance valve adjustment,small pressure loss,stable action,long life,intake valve key parts solenoid valve use international well-known brand, Ensure the absolute operation safety and economic control of screw compressor.



智能型微电脑控制系统

Intelligent microcomputer control system

操作简单，可实现中英文切换，空滤/油滤/油细分离器/润滑油，使用时间智能监控及管理，更有远程监控功能，供用户选择。

Easy to operate, can be switched between Chinese and English, air filter /oil separator /lubricating oil, use time intelligent monitoring and management, more remote monitoring function for users to choose.



物联网PLC无限扩展模块

IoT PLC infinite extension module



永磁变频双级压缩特性应用优势

Application advantages of Two-Stage Compression characteristics of permanent Magnet Frequency conversion

系统24小时预警

System 24 hour early warning

保养、故障预警提示一触即发，第一时间短信或邮件通知设备管理人员及经销商维护人员，减少用户二次损耗，避免机器重大故障。

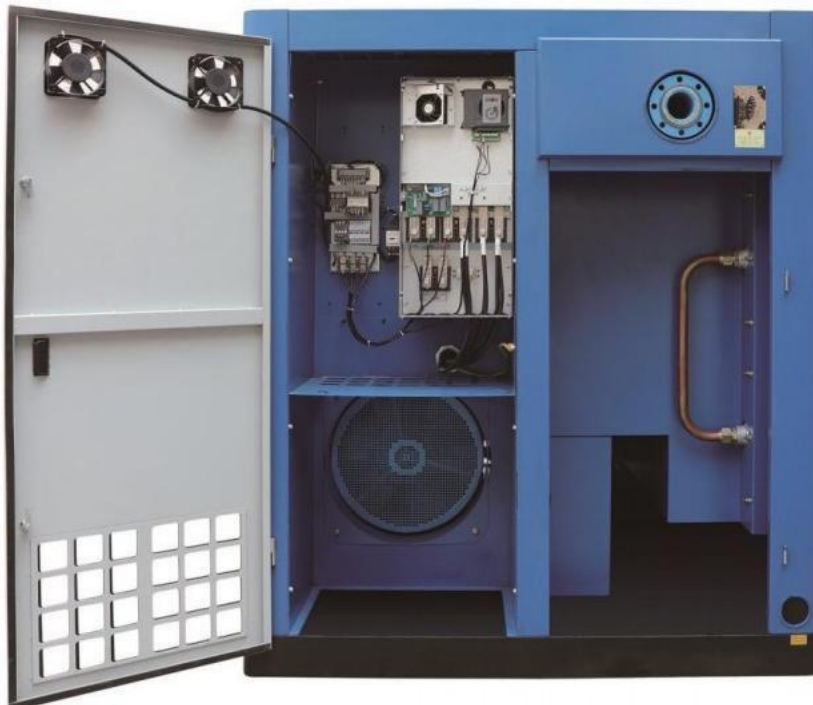
Maintenance, fault warning is imminent, the first time SMS or email to inform equipment management and dealer maintenance staff, reduce user secondary loss, to avoid major machine failures.

快速便捷操作人机合一

Quick and convenient operation man-machine integration

独创“简易管理”模式，全触摸屏操作，参数修改方便快捷。可设定智能定时开关机或者定时压力设置，实现智能网络控制变为现实。

Original "simple management" mode, full touch screen operation, parameter modification is convenient and fast. Intelligent timing switch machine or timing pressure setting can be set to realize intelligent network control become a reality.



节能静音环保整洁颠覆传统引领未来

Energy conservation, silence, environmental cleanliness, subverting tradition, leading the future

安全放心的售后服务

对售后服务，做到智能化监控，实时反馈故障信息，可通过APP端系统，PC端系统，做到及时精准控制，无后顾之忧。

Secure after-sales service

For after-sales service, intelligent monitoring, real-time feedback fault information, through the APP system PC terminal system, timely and accurate control, no worries.

大数据信息化管理系统

随时随地掌控各种信息、使用信息、问题故障等等，提供最有价值的及时的重要信息，提高各种效率。

Big data information management system

It can control all kinds of information, use information, trouble and so on, provide the most valuable and timely important information, and improve the efficiency.

节能省电可高达42%

做最省电费的空压机。购买成本加使用成本维护成本达到最优的组合，一切为使用优先考虑。

Energy saving up to 42%

To make the most economical air compressor. Purchase cost plus usage cost maintenance cost to achieve the optimal combination, all for use priority.



PC端口系统监控平台

PC port system control platform



远程监控系统，可以实时查看机器运行参数，故障报警提示

Remote monitoring system, can real-time view machine operation parameters, fault alarm tips.

移动环境下及时快速处理故障

The breakdowns under moving circumstances can be dealt with timely and quickly.

APP端口系统提供最方便和最有效控制使用情况以人为本、服务为先，随时随地管理好，做好安全、放心、贴心。

APP port system provides the most convenient and most effective control of the use of people-oriented, service-oriented, anytime and anywhere good management, do a good job of security, rest assured, intimate.



APP端口系统监控平台

APP port system control platform



高效永磁同步电机
Efficient permanent magnet synchronous motor

永磁同步电机有着宽范围的高效运行频率，实现更多的节能运行空间
Permanent magnet synchronous motor has a wide range of efficient operation frequency to achieve more energy-saving operation space.

两级压缩机在同功率下比单机压缩排气量提高15%，可实现多达15%的节能空间

The two-stage compressor can save up to 15% more energy than the single compressor at the same power,

权伟双级压缩机参数表

QuanWei two stage Air compressor parameters

机型 / Model	排气压力 / Mpa	QWS-20ZY	QWS-30ZY	QWS-40ZY	QWS-50ZY	QWS-60ZY	QWS-75ZY	QWS-100ZY	QWS-125ZY	QWS-150ZY
排气量 m ³ /min	0.75	0.70-2.9	1.00-4.2	1.40-6.4	1.75-7.2	2.35-9.8	2.60-10.5	3.70-14.8	4.30-17.2	5.50-21.1
	0.85	0.65-2.8	0.95-4.1	1.25-6.2	1.65-6.9	2.05-9.6	2.25-10.3	3.05-12.1	4.25-17.1	4.95-19.8
	1.0	0.55-2.4	0.80-3.5	1.05-4.9	1.55-6.4	1.75-8.4	1.94-9.1	2.55-11.3	3.65-14.5	4.05-17.0
	1.3	0.50-2.2	0.70-3.2	1.00-4.2	1.25-6.0	1.45-7.2	1.85-8.5	1.85-9.8	3.00-12.0	3.75-14.5
噪音dB(A) Noise Level/dB(A)		60±3	62±3	62±3	62±3	62±3	64±3	64±3	66±3	66±3
电源 Voltage	380v/50Hz									
功率 Power/KW		15	22	30	37	45	55	75	90	110
启动方式 Start method	永磁变频启动 Permanent Magnet Variable start									
出口管径 Outlet diameter		G1丝"	G1"	G2"	G2	G2	G2"	DN50	DN80	DN80
重量(kg) Weight (kg)		730	850	1000	1100	1980	2200	2400	3000	3200
外形尺寸 External dimensions	长L (mm) length L (mm)	1500	1500	1900	1900	2100	2100	2200	2460	2460
	宽W (mm) Width W (mm)	1000	1000	1260	1260	1500	1500	1500	1670	1670
	高H (mm) Height H (mm)	1400	1400	1400	1400	1600	1600	1670	1700	1700

备注:

容积流量 (FAD) 是机组在负载条件下按IS001217 [GB/T 3853]的要求测试。

针对行业使用工况不同, 可能调整相关参数, 以提供的外观图为准, 噪音值为标准测试条件下测试, 具体使用时因安装条件会有所不同。

其它排气压力(可达12.5 bar)机组, 欢迎洽谈, 本公司对产品不断改进, 保留设计权, 参数更改, 恕不另行通知。

Remarks:

The volume flow rate (Fad) is tested according to the requirements of IS001217 [GB/T3853] under load conditions. According to the different working conditions of the industry, the relevant parameters may be adjusted to provide the appearance chart, the noise value is the standard test conditions, the specific use will be different because of the installation conditions.

Other exhaust pressure (up to 12.5 bar)units, welcome to negotiate, our products continue to improve, reserve the right to design, parameters are subject to change without notice.

权伟双级压缩机参数表

QuanWei two stage Air compressor parameters

机型 /Model	排气压力 /pa	QWS-175ZY	QWS-200ZY	QWS-250ZY	QWS-275ZY	QWS-300ZY	QWS-335ZY	QWL-375ZY	QWS-425ZY
排气量 m ³ /min	0.75	6.00-24.1	14.5-29.2	16.0-32.5	17.4-35.8	18.5-38.0	22.5-0.75	25.3-50.5	29.5-59.8
	0.85	5.50-22.0	14.2-28.8	15.5-31.5	16.0-32.5	17.2-35.5	21.7-0.85	25.0-50.0	29.0-58.0
	1.0	4.60-18.5	13.2-26.5	13.5-27.5	14.0-29.0	16.0-32.0	19.5-39.5	21.0-42.0	24.5-49.0
	1.3	4.45-17.8	11.2-22.5	12.2-24.5	13.0-26.0	14.2-29.5	17.5-36.0	19.0-39.5	21.0-42.0
噪音dB(A) Noise Level/dB(A)		68±3	74±3	74±3	74±3	78±3	78±3	80±3	80±3
电源 Voltage		380v/50Hz							
功率 Power/KW		132	160	185	200	220	250	280	315
启动方式 Start method		永磁变频启动 Permanent Magnet Variable start							
出口管径 Outlet diaete		DN80	DN80	DN100	DN100	DN100	DN125	DN125	DN125
重量(kg) Weight (kg)		3450	3950	4800	5400	5400	6800	7100	7650
外形尺寸	长L (mm) length L(mm)	2950	2950	3370	3370	3370	4120	4120	4350
	宽W (mm) Winth W (mm)	1900	1900	2070	2070	2070	2200	2200	2200
	高H (mm) Height H(mm)	2000	2000	2300	2300	2300	2350	2350	2350

备注:

容积流量 (FAD) 是机组在负载条件下按ISO1217 [GB/T 3853]的要求测试。

针对行业使用工况不同, 可能调整相关参数, 以提供的外观图为准, 噪音值为标准测试条件下测试, 具体使用时因安装条件会有所不同。

其它排气压力(可达12.5 bar)机组, 欢迎洽谈, 本公司对产品不断改进, 保留设计权, 参数更改, 恕不另行通知。

Remarks:

The volume flow rate (Fad) is tested according to the requirements of ISO1217 [GB/T3853] under load conditions. According to the different working conditions of the industry, the relevant parameters may be adjusted to provide the appearance chart, the noise value is the standard test conditions, the specific use will be different because of the installation conditions.

Other exhaust pressure (up to 12.5 bar) units, welcome to negotiate, our products continue to improve, reserve the right to design, parameters are subject to change without notice.

低压专用螺杆式空气压缩机 22KW-250KW

LOW PRESSURE SPECIAL SCREW AIR COMPRESSOR
22KW-250KW



主机介绍

Host Introduction

[安装、维护、保养简便]

Easy to install, maintain and maintain



真品 · 正品 · 权伟制造

Authentic authentic made by Quanwei



转子rotor

转子选用了不对称型线，运行效率高，选用圆柱滚珠轴承，提高了承载能力。支撑着转子可靠的运行，磨损较小，维修保养费用低，主机寿命长、可靠性安全性高。

Unsymmetrical profile is selected for the rotor with high operation efficiency. Cylindrical ball bearing is selected to improve the bearing capacity. It supports the reliable operation of the rotor, with small wear, low maintenance cost, long service life and high reliability and safety.



轴密封装置Shaft sealing device

配有金属框架的双轮圈氟橡胶环能够承受一定的压力，形成可润滑的轴密封装置。轴上的衬套系运用我公司的独家技术可进行特殊加工，具体完善的密封性能和超长的寿命。

The double ring fluororubber ring with metal frame can bear certain pressure to form a lubricating shaft sealing device. The bushing on the shaft can be specially processed by using the exclusive technology of our company, with specific and perfect sealing performance and long service life.

工作原理Working principle

1. 吸气

空气进入进气端转子的螺旋槽

2和3. 压缩

随着转子的旋转，进气口关闭，润滑油注入容积减少

同时气体压力升高

4. 排气

压缩过程结束，最终压力获得，排气过程开始

1. Inhale

Air enters the spiral groove of the rotor at the inlet end

2.3. compress

As the rotor rotates, the air inlet closes, the volume of lubricating oil injection decreases and the gas pressure increases

4. exhaust

The compression process is completed, the final pressure is obtained, and the exhaust process is started



轴 承Bearing

为了保证轴承的转速和负载量，螺杆式压缩机采用SKF轴承受重能力相当高的优质轴承，保证了较长的轴承寿命。

In order to ensure the speed and load of the bearing, the screw machine adopts the high-quality bearing with high load capacity of SKF Bearing to ensure the bearing life.

[产品六大特性] six characteristics of the product

50%

以上
Above

权伟低压螺杆空气压缩 将为您节约电

Quanwei low pressure screw air compressor
费 save you electricity

■ 真正节能 Real energy saving

为降低您的生产成本，同时为减少碳排放，保护绿色家园，我们为您的行业专门设计制造了名义排气压力为0.15Mpa、

0.5Mpa 的节能系列低压螺杆式空气压缩机。
In order to reduce your production cost, reduce carbon emissions and protect our green home, we specially designed and manufactured a series of energy-saving low-pressure screw air compressors with nominal discharge pressure of 0.15Mpa and 0.5Mpa for your industry.

■ 高效主机 Efficient host

与电机联轴器联接，传动效率高。采用权伟专用主机，更优异的型线，降低转子运转时的摩擦阻力，大幅度降低能耗与振动。将

泄露面积减少，使效率提高约15%，使排气量大大增加。
It is connected with motor coupling and has high transmission efficiency. It adopts the special main engine of Quanwei, more excellent profile, reduces the friction resistance when the rotor is running, and greatly reduces the energy consumption and vibration. The leakage area is reduced, the efficiency is increased by about 15%, and the exhaust volume is greatly increased.

■ 高可靠性 high reliability

我们的低压螺杆空气压缩机采用高效油气分离系统，确保压缩空气含油量在3ppm以下。选择我们的低压螺杆压缩机您就选择了低油耗、低噪音、高可靠性的压缩机。
Our low-pressure screw air compressor adopts an efficient oil-gas separation system to ensure that the oil content in the compressed air is below 3ppm. Choose our low-pressure screw compressor you choose the compressor with low fuel consumption, low noise and high reliability.

■ 量身打造 Tailor made

如果您的设备仅需要0.5Mpa及以下的压缩空气，我们的低压螺杆压缩机是您最佳选择。防雨防尘防异物、冷却风侧进侧出、高精双层滤芯等设计更好的适应水泥、纺织等较恶劣的工作环境。
If your equipment only needs 0.5MPa or less compressed air, our low-pressure screw compressor is your best choice. Rain proof, dust-proof and foreign matter proof, cooling airside in and out, high-precision double-layer filter element are designed to better adapt to the worse working environment such as cement and textile.

■ 智能控制 intelligent control

设备节能并不局限与单机的系统设计，多台联控也是有效节能方式，我们的控制系统使节能效果更明显，在实现联控的基础上，只要得到您的支持，我们就能通过网络，利用远程软件实时查看

空压机的一切运行状态，实现即时体检。
Energy saving of equipment is not limited to the system design of single machine, and multi unit joint control is also an effective energy-saving way. Our control system makes the energy-saving effect more obvious. On the basis of realizing joint control, as long as we get your support, we can use the remote software to view all the running states of the air compressor in real time through the network and realize real-time physical examination.

■ 省电 50% save electricity 50%

无论您是新的投资，还是取代现有排气压力为0.7-0.8Mpa的螺杆机压缩机，我们的低压螺杆压缩机将为您节约电费50%以上，

您所节约的电费将让您在不到一年的时间内收回投资。
Whether you are a new investment or replacing the existing screw compressor with a discharge pressure of 0.7-0.8mpa, our low-pressure screw compressor will save you more than 50% of the electricity charge, and the electricity charge you save will allow you to recover your investment in less than a year.

[产品细节优势] Advantages of product details



■ 冷却系统 Cooling system

油冷、气冷散热面积加大50%，降低油路、气路压阻，有效降低系统能耗。提供大风扇同时可有效降低风扇噪声。
Increase the heat dissipation area of oil cooling and air cooling by 50%, reduce the pressure resistance of oil and air cooling, and effectively reduce the energy consumption of the system. Large fans are provided to reduce fan noise.



■ 微电脑控制系统 Microcomputer control system

操作简单，可实现中英文切换，使用时间智能监控及管理，更有远程监控功能，供用户选择。
Simple operation, can switch between Chinese and English, use time intelligent monitoring and management, more remote monitoring function, for users to choose.



■ 主机 Host

传动效率高，大幅度降低能耗与振动。将泄露面积减少，使效率提高15%，使排气量大大增加。
High transmission efficiency, greatly reduce energy consumption and vibration. Reduce the leakage area, increase the efficiency by 15%, and increase the displacement greatly.





■ 预过滤系统
Prefilter system

超大过滤面积，低吸气阻力，过滤效率达90%以上；延长空气滤芯寿命，减少维护机器的费用，延长整机的使用寿命。

Large filtration area, low suction resistance, filtration efficiency of more than 90%. Extend the service life of air filter element, reduce the cost of maintenance and extend the service life of the whole machine.



■ 油滤
Oil filtration

独特油滤保养系统：不停机的状况下可自由更换油滤，有效延长整机的使用寿命。

Unique oil filter maintenance system: the oil filter can be freely replaced without shutdown, effectively extending the service life of the machine.



■ 进气系统
Intake system

停机空气不回流，不喷油，大口径、低压降设计使进气效率达到最佳；无级调节系统范围可达0-100%；御载无放空，有效降低能耗。

Stop the air without backflow, no fuel injection, large diameter, low pressure drop design to achieve the best intake efficiency: stepless regulation system range up to 0-100%, it can reduce energy consumption effectively.



■ 变频控制系统
Frequency conversion control system

利用变频器通过改变电机频率来调节转速，变频控制即通过改变电动机的转速来控制空压机单位时间的出风量，从而达到控制管路的压力，具有明显的节能效果。

The frequency converter is used to adjust the speed by changing the motor frequency, and the frequency conversion control is used to control the air output per unit time of the air compressor by changing the motor speed, so as to control the pressure of the pipeline.



■ 油气分离器
Oil gas separator

采用三级分离方法(旋风分离法、沉降分离法、精过滤法)使出口压缩空气的含油量仅为3ppm。Three stage separation methods (cyclone separation, sedimentation separation, fine filtration) were used to make the oil content of compressed air at the outlet only 3ppm.



■ 电机
Electric machinery

F级绝缘电动机，配进口长寿命轴承。电机容量增加1.2，连续无故障运行能力强。可承受满负荷长时间运行。

F class insulated motor with imported long life bearing. Motor capacity increased by 1.2, continuous trouble-free operation ability. Able to run at full load for long periods.



低压螺杆空气压缩机系列 Low pressure screw air compressor series

低压螺杆空气压缩机系列是根据国家提出的节能减排，保护环境的国策下诞生的新型压缩机，它改变了传统的用较高压力的压缩机，将压缩机排出的压缩空气进行减压后，再输送给用气设备。造成浪费大量能源。

低压螺杆空气压缩机可根据用户用气配置，使用最少的能源来满足你的工艺系统的流程，节省大量能源，你的产品的制造成本会得到可观的改善。比如你的工艺系统中对供气要求只需3bar，而使用的空气压缩机配置7bar，再通过减压至3bar。你会多花费一倍的电来满足你的工艺系统，你可以选择我们的低压螺杆空气压缩机，可付出少一半的电费，工艺系统中的供气仍然得以保证，且实现了节能减排。

Low pressure screw air compressor series is based on the national policy of energy conservation, emission reduction and environmental protection. It has changed the traditional high pressure compressor. After decompressing, the compressed air discharged by the compressor is transferred to the gas equipment. It wastes a lot of energy.

Low pressure screw air compressor can be configured according to the user's air pressure, use the least energy to meet the process of your process system, save a lot of energy, and the manufacturing cost of your products will be significantly improved. For example, you only need 3 bar for air supply in your process system, and the air compressor used is configured with 7 bar, and then reduced to 3 bar by decompression. You will spend twice as much electricity to meet your process system. You can choose our low-pressure screw air compressor, which can pay half of the electricity fee. The gas supply in the process system is still guaranteed, and energy conservation and emission reduction are achieved.



玻璃行业class industry

纺织行业Textile industry

化纤行业chemical fiber industry

水处理watertreatment

水泥行业Cement industry

ZCD低压永磁系列螺杆式空气压缩机技术参数 Technical parameters of ZCD low voltage permanent magnet series xrew air compressor					
项目型号 Project model	功率(KW) power	气量/压力m ³ /min Air flow/pressure	出口尺寸 Outlet size	机组重量kg Unit weight	机组尺寸(LxWxh) mm Unit size
QWL-30ZCD	22	6.7m ³ /0.3mpa	G2*	1050	1550x1010x1330
		5.2m ³ /0.5mpa			
QWL-40ZCD	30	7.8m ³ /0.3mpa	G2*	1350	1980x1270x1620
		6.5m ³ /0.5mpa			
QWL-50ZCD	37	10.8m ³ /0.3mpa	G2*	1500	1980x1270x1620
		8.5m ³ /0.5mpa			
QWL-60ZCD	45	12.3m ³ /0.3mpa	G2'	1850	1980x1270x1620
		10.7m ³ /0.5mpa			
QWL-75ZCD	55	17.6m ³ /0.3mpa	DN65	2100	2450x1600x1750
		12.8m ³ /0.5mpa			
QWL-100ZCD	75	21.3m ³ /0.3mpa	DN65	3200	2450x1600x1750
		17.8m ³ /0.5mpa			
QWL-125ZCD	90	25.7m ³ /0.3mpa	DN80	3500	2550x1650x1850
		23.0m ³ /0.5mpa			
QWL-150ZCD	110	29.2m ³ /0.3mpa	DN100	3800	3200x1950x2100
		25.3m ³ /0.5mpa			
QWL-175ZCD	132	41.3m ³ /0.3mpa	DN100	4500	3200x1950x2100
		34.5m ³ /0.5mpa			
QWL-200ZCD	160	45.2m ³ /0.3mpa	DN100	4800	3200x2100x2150
		39.8m ³ /0.5mpa			

备注note

容积流量(FAD)是机组在负载条件下按ISO01217[GB/T3853]的要求测试。

针对行业使用工况不同,可能调整相关参数,以提供的外观图为准,噪音值为标准测试条件下测试,具体使用时因安装条件会有所不同。

其它排气压力(可达12.5 bar)机组,欢迎洽谈,本公司对产品不断改进,保留设计权,参数更改,恕不另行通知。

The volume flow rate (FAD) is tested under load conditions according to the requirements of ISO01217[GB/T3853].

According to different operating conditions of the industry, relevant parameters may be adjusted. The appearance diagram provided shall prevail. The noise value shall be tested under standard test conditions.

Other exhaust pressure (up to 12.5 bar) units, welcome to negotiate, the company constantly improve the product, reserve the right to design, parameters change, without prior notice.



专业ZCD系列

定制低压螺杆空气压缩机

纺织、水泥、建材、化工、玻璃吹瓶、水处理等行业所需要的压缩空气压力为2-5bar，然而目前多数采用7-8bar的空压机加装减压阀来做到，这无疑是一种极大的浪费。针对此工况，权伟最早专业研发了低压螺杆空气压缩机，直接输出适合工作压力的压缩空气。

ZCD 系列低压螺杆空气压缩机可根据用户用气压而配置，使用最少的能源来满足你的工艺系统的需要，节省大量能源，你的产品的制造成本会得到可观的改善。

独特的设计，排气压力为1.2-5bar，低压螺杆空气压缩机，最低压力可达1.2bar。

ZCD 智能控制系统：根据客户使用情况自动调节排气量，降低了能源浪费。

专用智能控制器，三变频设计，供气压力更稳定，温度控制更精准，客户用电量更少，保证设备长期稳定运行。标配物联网与手机APP 软件，远程监控空压机运行状况，为客户提供远程诊断服务。

The compressed air pressure required by textile,cement, building materials, chemical industry,glass blowing bottle, water treatment and other industries is 2-5bar.However, most of the air compressors with 7-8bar are equipped with pressure-reducing valves, which is undoubtedly a huge waste.Aiming at this working condition, kwon wei developed the first professional low-pressure screw air compressor to directly output compressed air suitable for working pressure.

ZCD series low pressure screw air compressor can be configured according to the user pressure, use the least energy to meet the needs of your process system, save a lot of energy,your product manufacturing costs will be significantly improved.

Unique design,exhaust pressure of 1.2-5bar, low pressure screw air compressor, minimum pressure up to 1.2bar.

ZCD intelligent control system:according to the use of customers automatically adjust the volume of exhaust,reduce energy waste.

Special intelligent controller, three frequency conversion design, more stable air supply pressure,more accurate temperature control, less power consumption, to ensure long-term stable operation of equipment. Standard Internet of things and mobile APP software,remote monitoring of air compressor operation, to provide customers with remote diagnosis services.

玻璃行业Glass industry

低压螺杆空气压缩机在玻璃行业的应用主要是用于吹瓶和玻璃器皿、吹灯管和电子管、燃烧气、传输原料、玻璃刻蚀清光和钻孔、输送玻璃、气动控制、真空吊板。

Low pressure screw air compressor in glass industry applications are mainly used for blowing bottles and glassware, blowing lamp tube and electron tube, burning gas, transmission materials, glass

棉纺、化纤行业cotton spinning,chemical fiber industry

棉纺行业主要用空压机压缩空气来做动力源，对含油量要求比较高，主要设备为织布机、纺锤和其他动力设备等。化纤行业主要是仪表用气和吸丝枪用气，主要用气设备有：喷气织机、空气包覆丝机、加弹机等。

The cotton spinning industry mainly USES the air compressor to compress the air to do the power source, the oil content request is higher, the main equipment is the loom,the spindle and other power equipment

水泥行业The cement industry

水泥行业压缩空气主要用于贮藏通气、水泥浆的搅拌、水泥袋清洁封口、原料搅拌、翻斗车、清洗设备、熟料冷却、输送水泥和梅、水泥窑清洗、车船装卸、升降和起吊器、气动控制。

Cement industry compressed air is mainly used for storage ventilation, cement slurry mixing,cement bag cleaning seal, raw material mixing,dumper,cleaning equipment, clinker.

水处理行业Water treatment industry

污水处理，发酵，吹泡。

Sewage treatment,fermentation,blowing.

激光切割专用螺杆式 空压机

SPECIAL SCREW AIR COMPRESSOR
FOR LASER CUTTING



激光切割机用什么样的空压机

WHAT KIND OF AIR COMPRESSOR DOES LASER CUTTING MACHINE USE

激光切割是什么

what is laser cutting

激光切割机是一种新型的切割技术，采用光束切割，这种切割出来的物品，精度更高。但是在激光切割机使用的时候，经常要用到辅助气体。切割物品的厚度与气体的选择有很大的关系。那么激光切割机用什么气体？一般多采用空气压缩机压缩的气体，作为辅助气体。

Laser cutting machine is a new cutting technology, using beam cutting, the cutting out of this kind of objects, the accuracy is higher.

However, auxiliary gases are often used when laser cutting machines are used.

The thickness of the cutting object has a great relationship with the choice of gas.

So what kind of gas does a laser cutter use?

Generally, the compressed gas of air compressor is used as auxiliary gas.

权伟激光切割机节能省电

Quan Wei Laser cutting Machine saves Energy

以上就是空气压缩机在激光切割机中作用，一般多采用螺杆式空压机，用气稳定，使用时间长。但是激光切割机行业，离不开用气需求，可以说是常年用气，这样一来，机会造成耗电量大的想象。不过，几年空气压缩机市场出现了，节能空压机，为常年用气的企业解决了烦恼。特别是永磁变频空压机，恒压产气，节能省电。

The above is the role of air compressors in laser cutting machines, the general use of screw air compressor, with gas stability, the use of a long time.

But the laser cutting machine industry, can not be separated from the gas demand, can be said to be a perennial gas, so that the opportunity to create a large power consumption imagination.

However, a few years air compressor market appeared, energy-saving air compressor, for the perennial gas enterprises to solve the problem.

In particular, permanent magnet variable frequency air compressor, constant pressure to produce gas, energy and electricity saving.

像这种常年用气的企业，多不胜数，根据客户用气情况，空气压缩机厂家也会根据实际情况，为企业推荐合适的空气压缩机产品。

Like this perennial gas enterprises, more than a few, according to the customer gas situation, air compressor manufacturers will also be based on the actual situation, for enterprises to recommend appropriate air compressor products.

在权伟空压机厂家的客户案例中，有很多激光切割机客户，这些客户是经常用气厂家，在考虑节能省电方面，都会选用节能空压机。这种压缩气体，满足激光切割机用气需求。

In the Quan Wei air compressor manufacturers customer cases, there are many laser cutting machine customers, these customers are often used gas manufacturers, in the consideration of energy saving, will choose energy-saving air compressor. The compressed gas meets the gas demand of the laser cutting machine.

Quan Wei specializing in the production of air compressors manufacturers, will not regularly publish some knowledge about air compressors, I hope you pay more attention.

空气压缩机在激光切割机中的用途

Application of Air Compressor in Laser cutting Machine

1. 空气压缩机压缩空气(一般用来保护光路, 有的厂家还用来做保护气体)

1. Air compressor compressed air (commonly used to protect the light path, some manufacturers also used to make protective gas).

2. 辅助气体(从切割机割嘴喷出来的气体)

2. Auxiliary gas (gas ejected from a cutting machine).

压力和流量每个激光切割机厂商各不相同，这跟切割嘴型号大小，切割材料板厚密不可分。一般要求压力在0.3-0.8Mpa，割嘴部一般0.02-0.05Mpa。流量不好说，比如切割22mm碳钢，有些厂家的流量要达到10M³/h(包括双层割嘴的保护用氧气)。

Pressure and flow rate of each laser cutting machine manufacturers are different, this is closely related to the size of the cutting nozzle, cutting material plate thickness is inseparable.

Pressure is generally required in the range of 0.3-0.8 Mpa, and the muzzle is generally 0.02-0.05Mpa. The flow rate is uncertain, such as cutting 22mm carbon steel, some of which require a flow rate of 10 M³/h (including oxygen for the protection of double-cut nozzles).

激光切割永磁变频参数表

LASER CUTTING PERMANENT MAGNET VARIABLE FREQUENCY PARAMATERS

机型/Model	QWL-10ZBY	QWL-15ZBY	QWL-20ZBY	QWL-25ZBY	QWL-30ZBY	QWL-40ZBY	QWL-50ZBY	
排气量/排气压力 (m3.miril/MPa) Gas displacement/ Discharge pressure (m3.miril/MPa)	0.8/1.2	1.1/1.2	1.9/1.2	2.4/1.2	2.7/1.2	4.8/1.2	5.0/1.2	
	0.48/1.6	0.68/1.6	1.2/1.6	1.6/1.6	2.9/1.6	3.2/1.6	4.0/1.6	
润滑油量L Lubricating volume/L	10	18					30	
噪音dB(A) Noise Level/dB(A)	66±2	68±2						
功率 Power/KW	7.5	11	15	18.5	22	30	37	
外形尺寸 External Dimension	长L(mm) length L(mm)	900		1150		1350		1550
	宽W(mm) Winth W(mm)	660		810		850		1010
	高H(mm) Height H(mm)	1010		1160		1040		1330
重量, (kg)、 Weight (kg)	190	400		570		630	750	
出口管径 Outlet diameter	G34°	G1°					G1-1/2°	
电源 Voltage	380V/50Hz							
启动方式 Start method	永磁变频启动Permanent Magnet Variable start							

水润滑无油变频单螺杆式 空压机7.5KW-315KW

INTRODUCTION OF WATER LUBRICATING OIL
FREE VARIABLE SPEED SINGLE SCRWE
AIR COMPRESSOR 7.5KW-315KW



产品简介

Product Profile

水润滑无油变频式单螺杆压缩机是节能变频器控制电动机和主机运行，与工频控制的压缩机比较，能源节约是最有实际意义的。根据空气量需求来供给压缩机的电能是最经济的运行方式。节省电费约15-30%，约半年到一年即可回收投入的资金。高效率的水润滑无油变频式单螺杆压缩机，根据客户的用气量，实现无级调速，在输出气量与系统消耗之间维持最佳的运转效率。实现节能效果。由于自动调整能力强，可快速的反应系统压力的变化，维持最佳的运转效率。与普通压缩机相比变频压缩机的优点除了省电的明确效益外，也能提供稳定的排气压力，提高马达功率因素，有效降低启动电源，并延长压缩机的使用寿命。

Water-lubricated oil-free single-screw compressor is an energy saving inverter that controls the motor and the main engine. Compared with the compressor controlled by power frequency, energy saving is of the most practical significance. It is the most economical way to supply the electric energy of the compressor according to the air demand. We can save about 15-30% of the electricity cost, and we can recover the investment from half a year to one year. High efficiency water-lubricated oil-free variable frequency single-screw compressor can realize stepless speed regulation according to the gas consumption of customers, and maintain the best operating efficiency between the output gas volume and system consumption. Achieve energy saving effect. With strong automatic adjustment ability, it can quickly respond to the change of system pressure and maintain the best operating efficiency. Compared with ordinary compressor, the advantages of variable frequency compressor are not only the definite benefit of saving electricity, but also can provide stable exhaust pressure, improve motor power factor, effectively reduce the starting power, and extend the service life of the compressor.

水润滑无油变频式单螺杆压缩机的变频节能系统原理如下： 通过压力变送器测得的管网压力值与压力的设定值相比较，得到偏差，经PID调节器计算出变频器作用于异步电动机的频率值。由变频器输出的相应频率和幅值的交流电，在电动机上得到相应的转速。那么空压机输出对应的压缩空气输出至储气罐，使之压力变化，直

到管网压力与给定压力值相同，具有明显的节能效果。

The principle of energy saving system of water-lubricated oil-free variable frequency single-screw compressor is as follows: the pipe pressure value measured by the pressure transmitter is compared with the set value of pressure to obtain the deviation, and the frequency value of the inverter acting on the asynchronous motor is calculated by the PID regulator. The alternating current with the corresponding frequency and amplitude output by the inverter can obtain the corresponding speed on the motor. Then the air compressor outputs the corresponding compressed air to the gas storage tank, so that the pressure changes until the pipe network pressure is the same as the given pressure value, with obvious energy-saving effect.

水润滑无油变频式单螺杆压缩机还具有以下优点： 一般不常在高速区域运转，延长了电机和主机轴承的寿命。变频运行状态保持储气罐出口压力稳定，压力波动范围不能超过 ± 0.2 bar。变频器从0Hz启动压缩机，它的启动加速时间可以调整，因而减少启动时对压缩机的电器部件和机械部件所造成的冲击，增强系统的可靠性，使压缩机的使用寿命延长。电机运转速度较慢，有效地降了空压机运行时的噪音和振动。噪音与原系统比较下降约3至7分贝。变频控制能够减少机组启动时电流波动，这一波动电流会影响电网和其它设备的用电，变频器能够有效的将启动电流的峰值减少到最低程度。不影响电网和其它设备的用电，最主要的是低运行成本。其

能源成本大约降低44.3% 效益非常可观。

Water-lubricated oil-free variable frequency single-screw compressor also has the following advantages: Generally does not often operate in the high speed area, prolongs the life of the motor and main engine bearing. The pressure at the outlet of the gas storage tank is kept stable under variable frequency operation, and the pressure fluctuation range shall not exceed ± 0.2 bar. The frequency converter starts the compressor from 0Hz, and its starting acceleration time can be adjusted, so as to reduce the impact on the electrical and mechanical components of the compressor, enhance the reliability of the system, and prolong the service life of the compressor. The motor runs at a slower speed, effectively reducing the noise and vibration of the air compressor. The noise drops about 3 to 7 decibels compared to the original system. The frequency conversion control can reduce the current fluctuation during the starting of the unit, which will affect the power consumption of the grid and other equipment. The frequency converter can effectively reduce the peak value of the starting current to a minimum. It does not affect the power supply of the power grid and other equipment. The most important thing is the low operating cost. Its energy costs were reduced by about 44.3 per cent, with impressive benefits.

产品特点

Product characteristics

不锈钢水气分离桶

STAINLESS STEEL WATER VAPOR SEPARATOR DRUM

创新型不锈钢水气分离桶，以及全不锈钢管路设计，避免生锈腐蚀的同时更洁净，使用寿命更长。系统不含润滑油，没有油污染风险，经过水清洗的压缩空气很洁净。

Innovative stainless steel water-gas separation barrel, and all stainless steel pipe design, to avoid rust and corrosion while more clean, so that They last longer. The system contains no lubricating oil, no risk of oil contamination, and the compressed air cleaned by water is clean.

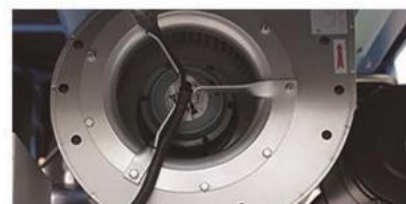


离心风机

CENTRIFUGAL FAN

采用静音设计，采用迷宫式进气，低速离心风机参照模拟冷却空气流动，成功减少空气摩擦的噪音。

Adopt quiet design, adopt labyrinth air inlet, low speed centrifugal fan with reference to the simulation of cooling air flow, successfully reduce the empty. The noise of air friction.



效率电机

THE EFFICIENCY OF THE MOTOR

主机精细优化设计。大转子，低转速(主机转速3000R/MIN 以内直联驱动);接近等温压缩，主机很低温升(风冷：环境温度+15℃。水冷：环境温度+10℃)，排气露点低。

Fine optimization design of main engine. Large rotor, low speed (direct drive within 3000r/min of main engine speed); Close to the isothermal. Low temperature rise (air cooling: ambient temperature +15°C. Water cooling: ambient temperature +10°C), low exhaust dew point.



全不锈钢效率主机

ALL STAINLESS STEEL EFFICIENCY MAINFRAME

主用peek，高强度，很耐磨的分子材料，全不锈钢转子以及全新工艺。饱和压缩空气露点低，含水量比普通无油干式螺杆空压机少25%以上。

Main use peek, high strength, very wear-resistant molecular material, all stainless steel rotor and new process. Saturated compressed air Low dew point, water content than ordinary oil-free dry screw air compressor less than 25%.



进口滤芯

IMPORT FILTER

防尘效果好，进口滤芯，大一号流量设计，保证进气流量充足。很节能。定制专用变频器，采用进口施耐德西门子电器元件。

Good dustproof effect, imported filter element, large flow design, to ensure adequate intake flow. Is energy saving. Customized special variable. Frequency device, using imported schneider Siemens electrical components.



技术参数

technical parameter

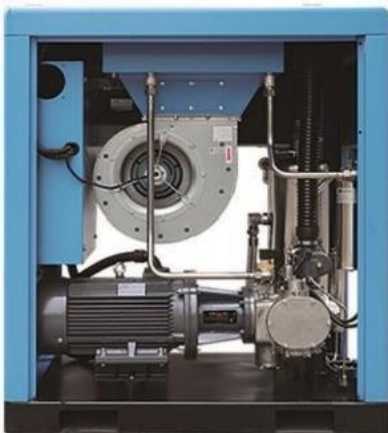
型号	最大工作压力 MPa	流量 m ³ /min	电机功率 KW	噪音 dB	冷却水 进出口径	冷却水量 进出口径	润滑 水量 L	外形尺寸 长*宽*高mm	重量 KG	空气出口
						进水32℃				
QWL-7SA	0.8	0.3~0.78	5.5	57	3/4*	1.5	10	800×800×1100	460	3/4
	1.0	0.2~0.65								
QWL-10SA	0.8	0.35~1.17	7.5	57	3/4"	2	10	800×800×1100	510	3/4°
	1.0	0.3~1.05								
	1.25	0.24~0.81								
QWL-15SA	0.8	0.54~1.72	11	60	1'	2.5	26	1200×760×1300	620	3/4°
	1.0	0.45~1.42								
	1.25	0.35~1.10								
QWL-20SA	0.8	0.75~2.43	15	60	1°	3.5	26	1200×760×1300	670	3/4
	1.0	0.65~2.17								
	1.25	0.6~1.80								
QWL-25SA	0.8	0.9~3.13	18.5	63	1°	4	30	1400×900×1450	730	1°
	1.0	0.9~2.82								
	1.25	0.6~2.05								
QWL-30SA	0.8	1.1~3.62	22	63	1'	5	30	1400×900×1450	780	1'
	1.0	0.97~3.21								
	1.25	0.85~2.78								
QWL-40SA	0.8	1.55~5.12	30	66	11/2'	7	40	1550×1150×1500 (A) 1500×1150×1300 (W)	1150	11/4°
	1.0	1.255~4.43								
	1.25	1.1~3.63								
QWL-50SA	0.8	1.91~6.30	37	66	11/2'	9	40	1550×1150×1500 (A) 1500×1150×1300 (W)	1200	11/4'
	1.0	1.60~5.33								
	1.25	1.42~4.77								
QWL-60SA	0.8	2.50~7.8	45	68	11/2'	10	90	1800×1300×1750 (A) 1800×1300×1680 (W)	1490	2'
	1.0	1.91~6.30								
	1.25	1.70~5.56								
QWL-75SA	0.8	3.0~9.76	55	69	11/2'	12	100	1980×1300×1750 (A) 1800×1300×1680 (W)	1570	2°
	1.0	2.60~8.55								
	1.25	2.30~7.67								

注：1.5.5kw-37kw 的空压机冷却方式为风冷，后面的冷却方式是水冷。

2. 以上参数在标准工况下调试得出，供参考

Note: 1.the cooling mode of 1.5.5kw-37kw air compressor is air cooling, and the cooling mode behind is water cooling.

2.The above parameters are obtained by debugging under standard working conditions for reference



适用范围

Scope of application

适用于干燥、涂装、发酵、清洁吹扫(半导体芯片及加工)、仪表用气(仪控)输送(食品、医疗) 医院、包装(食品，医用)。

Suitable for drying, coating, fermentation, cleaning and purging (semiconductor chip and processing), instrument gas (instrument control) transportation (food, medical treatment) hospital, packaging (food, medical).





为什么需要无油水润滑空压机?

WHY DO YOU NEED AN OIL-FREE AIR COMPRESSOR?

1. 等温压缩

Isothermal compression

2. 自润滑轴承

Self-lubricating bearing

3. 无油压缩转子

Oil-free compression rotor

4. 排气量大

Large displacement

5. 效率高

High efficiency

6. 连续稳定运行

Continuous and stable operation

7. 无污染

There is no pollution

8. 噪音低

Low noise

9. 节能减排

Energy conservation and emissions reduction

案例展示

Case presentation

权伟无油水润滑空压机至今已经为1000+家客户服务，其中大部份是上市公司或大型企业。涉及领域有医药、食品、电子、化工、包装等要求高品质气源的行业。

Kwon has served more than 1000 customers, most of which are listed companies or large enterprises. Related fields include medicine, food, electronics, chemical industry, Packaging and other industries that require high quality air sources.



机器展示

Machine display



无油涡旋空压机

3.7KW-30KW

OIL-FREE SCROLL
AIR COMPRESSOR 22KW-160KW



为您提供清洁压缩空气

应用于多种领域的压缩空气一顺应时代需求的方案

Saving energy, eliminating waste, greatly reducing your gas cost

干净的无油压缩空气

Clean oil-free compressed air

由于压缩涡旋之间没有金属间的接触，压缩腔里不需要油的润滑。因此涡旋压缩机的工作原理保障了干净的无油压缩空气。Because there is no contact between the scrolls, there is no need for oil lubrication in the compression chamber. Therefore, the working principle of scroll compressor ensures clean oil-free compressed air.

能源利用率高

A complete set of low pressure permanent Magnet

权伟无油涡旋空压机是很有效率的，由于采用了简单的启动/停止的控制，卸载功率的损耗没有了。权伟使用变流量控制，可以使压缩机的排气量和空气需求相匹配。

Quanwei Oil Free Vortex Air Compressor is very efficient. Because of the simple start/stop control, the loss of unloading power is eliminated. Quanwei uses variable flow control to match the compressor's exhaust and air demand.

静音低噪

Mute and low noise

涡旋部件的低转速使权伟空气压缩机很安静。权伟空气压缩机是现场型压缩空气系统，可以安装在很多工作场合。

The low speed of the scroll component makes the Quanwei air compressor quiet. Quanwei air compressor is a field compressed air system, which can be installed in many working occasions.

稳定性, 使用时间长

Stability, long use time

权伟无油涡旋空压机代表着简单和稳定。涡旋空气压缩机的设计有很少的运动部件，可以长时间运转，而服务的次数很少。

Quanwei Oilless Vortex Air Compressor represents simplicity and stability. The design of scroll air compressor has few moving parts, which can run for a long time, and few service times.

安装面积小

Stability, long use time

权伟无油涡旋压缩机很紧凑，安装面积很小。

Quanwei Oilless Vortex Air Compressor represents simplicity and stability. The design of scroll air compressor has few moving parts, which can run for a long time, and few service times.



无油涡旋空压机内部细节

Internal details of oil-free vortex air compressor

空气进气过滤器

Air Intake Filter

效率纸质筒式进气过滤器，可过滤尘埃和颗粒物
Efficient paper cylinder air inlet filter, which can filter dust and particulate matter.

自动调节

Automatic regulation

达到所需压力时，压缩机自动停止，节省能源消耗
When the required pressure is reached, the compressor stops automatically and saves energy consumption.

效率涡旋转子

Efficient Vortex Rotator

风冷式涡旋转子，使用时间长，运行稳定，且能效好
The air-cooled vortex rotator has the advantages of long service time, stable operation and good energy efficiency.

IP67 H级/IE3电机

IP67 H/IE3 Motor

风冷式IP67级电机，符合IE3效率电机能效标准
Air-cooled IP67 H class motor, in line with IE3 efficiency motor energy efficiency standards.

冷冻式干燥机

Freeze dryer

紧凑优化的内置冷冻式干燥机使压缩空气干燥，使压缩空气管道的生锈腐蚀少发生

Compact and optimized built-in freeze dryer dries compressed air and reduces rust and corrosion of compressed air pipes.

静音罩

Mute hood

隔音罩可将噪音水平减少，因此压缩机可安装在使用点附近
The noise level can be reduced by the sound insulation cover, so the compressor can be installed near the service point.

权伟人机界面控制器

Quanwei Man-Machine Interface Controller

监控功能包括报警提示、维护计划和在线查看运行情况
The monitoring function includes alarm prompt, maintenance plan and on-line inspection of operation.

全性能机组选配储气筒

Full performance units with optional gas cylinder

即插即用式解决方案，安装成本低，有300L和500L两种储气罐可选
Plug-and-play solution, low installation cost, 300L and 500L gas storage tank options

紧凑的设计

Compact design

新型直立式紧凑型设计，维护方便，优化冷却器性能从而减少运行温度并且提供减震

New vertical compact design, easy maintenance, optimize the performance of the cooler to reduce operating temperature and provide shock absorption

冷却器和管道

Coolers and pipes

Large-size coolers greatly increase the performance of units



无油涡旋空压机规格及性能参数表

Specification and performance parameter table of oil-free scroll air compressor

型 号	QWL-5WX	QWL-10WX	QWL-15WX	QWL-20WX	QWL-30WX	QWL-40WX
功率/KW	3.7	7.5	11	15	22	30
主机/台			3	4	6	8
电机/台	异步电机*1	异步电机*2	异步电机*3	异步电机*4	异步电机*6	异步电机*8
防护等级	IP67					
流量/L/min	400-355	800-710	1200-1050	1600-1400	2400-2100	3200-2800
噪音/dB(a)	57	58	60		63	
电压/V	380					
转速/rpm/min	2870					
压力/bar	8-10					
控制方式	压力传感器和电脑自动控制		压力传感器和7英寸人机界面自动控制			
MINIMUM 上下限压差/bar	0.8					
防护等级	IP67					
尺寸(长宽高)	700*900*1050		800*900*1750		1400*800*1580	
尺寸(带罐子)		700*900*1600				
重量/kg	165	250	405	450	680	780
重量(带罐子)		310				

一体永磁变频螺杆式 空压机7.5KW-45KW

PM VARIABLE FREQUENCY
SCREW TYPE AIR COMPRESSOR 7.5KW-45KW



多重把关，做工精良，恒久耐用，高效节能： Multiple checks, excellent workmanship, durability, high efficiency and energy saving:

气量大

排气量比同功率活塞机高10%以上

Big breath

Exhaust capacity is more than 10% higher than that of the same power piston engine.

适用范围广

广泛应用于涂装精密电子零件处理以及微处理等行业的压缩空气后处理设备，气体洁净度高

Wide scope of application

It is widely used in compressed air post-treatment equipment of coating precision electronic parts processing and micro-processing industries, with high gas cleanliness.

方便易用

可24小时无人值守全天工作空载自动启动，满载自动停机

Convenient and easy to use

No-load automatic start-up and full-load automatic shutdown for 24-hour unattended full-time work.

智能设计

完善的微电脑控制系统冷却系统过滤系统

Intelligent Design

Perfect Microcomputer Control System Cooling System Filtering System.

稳定性强

长时间工作环境下排气量及气压稳定无死机现象，故障率低

Strong stability

The exhaust volume and air pressure are stable in long-term working environment, and the failure rate is low.



菲拉格摩变频内部细节展示图

TAIWAN YONGYING FREQUENCY CONVERTER INTERNAL DETAILS DISPLAY PICTURE

菲拉格摩系列螺杆式空气压缩机技术参数

TECHNICAL PARAMETERS OF TAIWAN YONGYING SERIES SCREW AIR COMPRESSOR

机型/Model	FL-10GM	FL-15GM	FL-20GM	FL-25GM	FL-30GM	FL-40GM	FL-50GM	FL-60GM	FL-75GM	FL-100GM	
排气量/排气压力 (m ³ .miril/MPa) Gas displacement/ Discharge pressure (m ³ .miril/MPa)	1.2/0.7	1.65/0.7	2.5/0.7	3.2/0.7	3.8/0.7	5.3/0.7	6.8/0.7	7.4/0.7	10/0.7	13.4/0.7	
	1.1/0.8	1.5/0.8	2.3/0.8	3.0/0.8	3.6/0.8	5.0/0.8	6.2/0.8	7.0/0.8	9.2/0.8	12.6/0.8	
	0.95/1.0	1.3/1.0	2.1/1.0	2.7/1.0	3.2/1.0	4.5/1.0	5.6/1.0	6.2/1.0	8.5/1.0	11.2/1.0	
	0.8/1.2	1.1/1.2	1.9/1.2	2.4/1.2	2.7/1.2	4.0/1.2	5.0/1.2	5.6/1.2	7.6/1.2	10.0/1.2	
润滑油量L Lubricating volume/L	10	18				30			65		
噪音dB(A) Noise Level/dB(A)	66±2	68±2						72±2			
功率 Power/KW	7.5	11	15	18.5	22	30	37	45	55	75	
外形尺寸 External Dimension	长L (mm) length L (mm)	900	1150		1350			1550		1980	
	宽W (mm) Winth W (mm)	660	810		850			1010		1270	
	高H (mm) Height H (mm)	1010	1160		1040			1330		1620	
重量 (kg) weight (kg)	240	450	620		680		850	850	1800	1900	
出口管径 Outlet diameter	G3/4"	G3/4"		G1"			G1-1/2"		G2"		
驱动方式 Driven method	皮带Belt	直联Direct driven									
电源 Voltage	380V/50Hz										
启动方式 Start method	变频器启动										

机型/Model	FL-125GM	FL-150GM	FL-175GM	FL-200GM	FL-250GM	FL-300GM	FL-350GM	FL-430GM	FL-480GM	FL-540GM
排气量/排气压力 (m ³ .miril/MPa) Gas displacement/ Discharge, pressure (m ³ .miTIL/MPa)	16.2/0.7	21/0.7	24.5/0.7	28.7/0.7	32/0.7	36/0.7	42/0.7	51/0.7	64/0.7	71.2/0.7
	15.0/0.8	19.8/0.8	23.2/0.8	27.6/0.8	30.4/0.8	34.3/0.8	40.5/0.8	50.2/0.8	61/0.8	68.1/0.8
	13.8/1.0	17.4/1.0	20.5/1.0	24.6/1.0	27.4/1.0	30.2/1.0	38.2/1.0	44.5/1.0	56.5/1.0	62.8/1.0
	12.3/1.2	14.8/1.2	17.4/1.2	21.5/1.2	24.8/1.2	27.7/1.2	34.5/1.2	39.5/1.2	49/1.2	52.2/1.2
润滑油量L Lubricating volume/L	72	90		110		125	150			180
噪音dB(A) Noise Level/dB(A)	72±2			75±2			82±2		84±2	
功率 Power/KW	90	110	132	160	185	220	250	315	355	400
外形尺寸 External Dimension	长L (m) length L (mm)	2450		2500		3150				
	宽W (mm) winth W (mm)	1600		1470		1980				
	高H (mm) Height H (mm)	1740		1840		2150				
重量 (kg) weight (kg)	1950	2700	2900	3200	3500	4000	4500	6000	6500	7200
出口管径 Outlet dianetor	G2"	G2-1/2"			DN85				DN100	
驱动方式 Driven method	直联Direct driven									
电源 Votlag	380V/50Hz									
启动方式 Start method	变频器启动									

容积流量(FAD)是机组在负载条件下按ISO01217[GB/T3853]的要求测试。

针对行业使用工况不同,可能调整相关参数,以提供的外观图为准,噪音值为标准测试条件下测试,具体使用时因安装条件会有所不同。其它排气压力(可达12.5 bar)机组,欢迎洽谈,本公司对产品不断改进,保留设计权,参数更改,恕不另行通知。

The volume flowrate(Fad)istested according to therequirements ofISO01217[GB/T3853]underload conditions.According to the different working conditions oftheindustry,the relevant parameters may beadjusted to provide the appearance chart, the noise value isthe standard test conditions, the specific use will be different because of the installation conditions.

Othere exhaust pressure (upto 12.5bar) units, welcome to negotiate, our products continue to improve, reserve the right to design, parameters are subject to change without notice.

冷冻式干燥机

REFRIGERANT DRYER



压缩空气精华设备系统

Compressed air purifying equipment system

随着工业水平的不断提高，压缩空气已成为一种广泛应用于各个工业领域的重要动力。在压缩空气系统中，压缩空气主要通过空气压缩后取得，在气源系统中，从空气压缩机直接排除的空气中含有很多杂质，其中主要由水、油及颗粒杂质组成，如果不对其进行处理而直接使用，空气中的杂质会对客户的设备及产品造成很大伤害，使设备的维护成本上升，使用寿命缩短，严重时污染产品造成产品的报废。同时压缩空气中含有100%相对温度的水份，随着其在管道的冷却，水分将析出，这也一直是造成空气质量不良及设备维护成本增加的原因。

所以对气源进行处理是绝对必要的。空气的净化处理设备主要由后部冷却器，精密过滤器(含气水分离器),干燥机(冷冻式或吸附式),自动排水排污阀等，根据不同的工艺要求组成一个完整的系统。

权伟凭借丰富的压缩空气系统制造经验，采用高质量的零部件和先进的技术，为您提供优质系列的压缩空气净化产品，具有效率高、能耗低、使用寿命长等显著特点、对压缩空气进行深度净化，全面提升您的空气质量。

With the continuous improvement of industrial level, compressed air has become an important power widely used in various industrial fields.

In the compressed air system, compressed air is mainly obtained by air compression. In the air source system, the air directly removed from the air compressor contains a lot of impurities, which are mainly composed of water, oil and particles.

If it is not treated and used directly, the impurity in the air will cause great harm to the customer's equipment and products, which will increase the maintenance cost of the equipment, shorten the service life, and lead to the waste of the product when the pollution product is serious.

At the same time compressed air contains 100% relative temperature of water, as it cooled in the pipeline, moisture will precipitate, which has been the cause of poor air quality and equipment maintenance costs increased.

So it is absolutely necessary to deal with the gas source.

Air purification and treatment equipment is mainly composed of rear cooler, precision filter (containing air and water separator), dryer (freezing or adsorption type), automatic drainage and sewage valve, etc. According to different technological requirements, a complete system is formed.

Quan Wei by virtue of rich compressed air system manufacturing experience, the use of high-quality components and advanced technology, to provide you with high-quality series of compressed air purification products,

With high efficiency, low energy consumption, long service life and other remarkable characteristics, deep purification of compressed air, improve your air quality.

技术规格

进气温度 $\leq 45^{\circ}\text{C}$

工作压力: 7bar (使用范围: 6-10bar)

环境温度: 风冷型(A) $\geq 2^{\circ}\text{C}$, $\leq 38^{\circ}\text{C}$ 水冷型(W) $\geq 2^{\circ}\text{C}$, $\leq 45^{\circ}\text{C}$

压力露点: $3^{\circ}\text{C}-10^{\circ}\text{C}$ (7bar)

冷却水温: $t \leq 32^{\circ}\text{C}$

冷却水压: 2-4bar

安装方式: 室内无基础, 混凝土地坪, 四周边留空不小于1米

Technical specification

Inlet temperature $\leq 45^{\circ}\text{C}$.

Work pressure: 7 bar (range: 6-10bar)

Environment temperature: air cooled type (A) $\geq 2^{\circ}\text{C}$, water cooled type $\leq 38^{\circ}\text{C}$ (W) $\geq 2^{\circ}\text{C}$, $\leq 45^{\circ}\text{C}$

Pressure dew point: $3^{\circ}\text{C}-10^{\circ}\text{C}$ (7 bar)

Cooling water temperature: $t \leq 32^{\circ}\text{C}$.

Cooling water pressure: 2-4 bar.

Installation: no foundation, concrete floor, $\leq 1\text{m}$.

冷冻式干燥机规格及性能参数表

Table of refrigerated dryer specifications and performance parameters

项目型号 Project model	QW-10	QW-20	QW-30	QW-50	QW-75	QW-100	QW-120	QW-150	QW-180	QW-200	QW-250	QW-300	QW-350	QW-400
空气处理量 A Capacity (Nm ³ /min)	1.5	2.6	3.8	6.5	10.5	13.5	17.0	21.5	25.0	28.5	32.0	37.0	41.5	45.0
电源 Power supply (V/Hz)	220/50	220/50	220/50	220/50	220/50	380/50	380/50	380/50	380/50	380/50	380/50	380/50	380/50	380/50
压缩机总功率 Total compressor power (kW)	0.8	0.9	1.1	1.5	2.2	2.8	2.8	5.2	5.2	5.5	6.2	7.8	7.8	10.5
排水器 Drainer	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器	自动排水器
空气接管口径 Air inlet tube	G1"	G1.5"	G2"	G1"	G1.5"	G2"	G1"	G1.5"	G2"	G2.5"	DN80	DN100	DN100	DN100
设备重量 (kg) Equipment weight	52	73	95	115	160	225	235	345	395	530	580	680	750	800
外形尺寸 长 Dimension Length (mm)	680	880	980	1030	1250	1350	1350	1450	1450	850	850	850	850	950
外形尺寸 宽 Dimension Width (mm)	440	440	500	600	650	650	650	700	700	1550	1550	1700	1700	1900
外形尺寸 高 Dimension Height (mm)	710	800	930	1000	1150	1300	1300	1430	1430	1600	1600	1730	1730	1880



吸附式干燥机

ADSORPTIVE TYPE DRYER

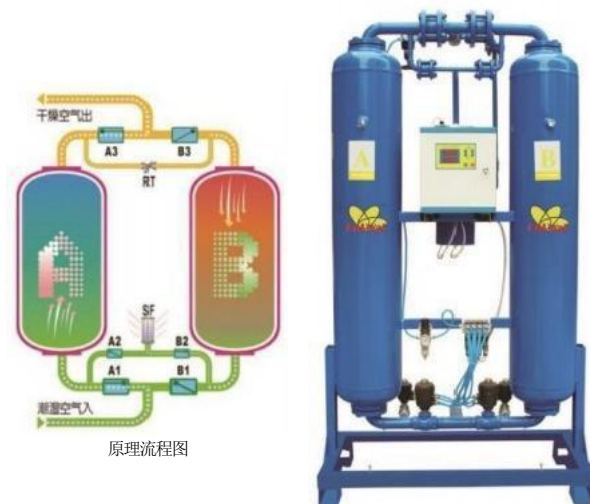


余热再生压缩空气干燥机

Waste heat regenerated compressed air dryer

工作原理：余热再生吸附式干燥机是利用空压机压缩空气时能量转换而产生的热量或高温压缩空气直接加热干燥机使其再生的空气干燥设备，无再生加热器、再生时耗气非常少，最大程度的节约了能量，本设备采用了PLC自动控制，操作简单，安全可靠，具有再生耗气小，露点稳定，可根据露点要求设定工作周期等特点。

Working principle: waste heat regenerative adsorption dryer is a kind of air drying equipment which is produced by energy conversion when compressed air is compressed by air compressor or directly heated by high temperature compressed air to make it regenerate. The equipment uses PLC automatic control, simple operation, safe and reliable, small regenerative gas consumption, stable dew point, no regenerative heater, very little gas consumption, maximum energy saving, the equipment adopts PLC automatic control, the operation is simple, the operation is safe and reliable, the regeneration gas consumption is small, the dew point is stable, The working cycle can be set according to the requirements of dew point and so on.



原理流程图

QW 系列WXF 无热再生吸附式干燥机规格及性能参数

Specification and performance parameters of QW Series WXF Heat Free Regeneration adsorption Dryer

项目型号 Project model	空气处理量 Air handling capacity (Nm ³ /min)	加热器功率 Heater power (kw)	空气接管口径 Air tube caliber	外形尺寸(mm)Boundary dimension			总量 Total quantity (kg)
				长Length	宽Width	高Height	
QWL-1WXF	1.6	0.5	ZG1	850	360	1540	120
QWL-2WXF	2.5	1	ZG1	850	360	1645	280
QWL-3WXF	3.8	1.2	ZG1.5	1010	460	1570	320
QWL-6WXF	6.8	2.1	ZG1.5	1010	460	1940	480
QWL-8WXF	8.5	3	ZG2	1200	500	1940	540
QWL-10WXF	11.5	4	ZG2	1200	500	2200	650
QWL-13WXF	13.5	4	ZG2	1300	500	2200	690
QWL-15WXF	17	5	ZG65	1350	580	2330	780
QWL-20WXF	23	6	ZG80	1450	600	2340	920
QWL-25WXF	27	8	ZG80	1700	930	2570	1050
QWL-30WXF	34	10	ZG80	1750	960	2626	1200
QWL-40WXF	45	12	ZG100	1850	1060	2646	1530
QWL-50WXF	55	15	ZG100	1900	1120	2730	1750
QWL-60WXF	65	18	ZG125	2160	1240	2784	2230
QWL-80WXF	87	27	ZG125	2416	1440	2827	2710
QWL-100WXF	110	36	ZG150	2560	1560	2827	4173
QWL-160WXF	160	54	ZG200	2760	1760	3136	6479

微热再生压缩空气干燥机

Micro-heat regenerated compressed air dryer

工作原理：微热再生吸附式干燥机是利用吸附剂在较高温度下吸附水分能力较低的特性，把再生气加热通入到再生塔，利用高温气体加热吸附剂，脱除其吸附水分，达到再生吸附剂的效果。本设备采用PLC自动控制技术，操作简便、节能、安全可靠、露点稳定，可根据工况露点要求设定系统的工作周期，自动恒温控制，具备无热再生干燥机的特点。

Working principle: the micro-heat regenerative adsorption desiccator uses the characteristics of the adsorbent to absorb water at higher temperature, heat the regenerated gas into the regeneration tower, use the high temperature gas to heat the adsorbent, and remove the adsorbent from the adsorbent. To achieve the effect of regenerative adsorbent. This equipment adopts PLC automatic control technology, easy to operate, energy saving, safe and reliable, stable dew point, can set the working cycle of the system according to the requirement of dew point of working condition, automatic constant temperature control, has the characteristics of no heat regenerative dryer.



原理流程图

QW 系列WXG 微热吸附式干燥机规格及性能参数

Specification and performance parameters of QW Series WXG Microthermal adsorption Dryer

项目型号 Project model	空气处理量 Air handling capacity (Nm ³ /min)	加热器功率 Heater power (kw)	空气接管口径 Air tube caliber	外形尺寸(mm)Boundary dimension			总量 Total quantity (kg)
				长Length	宽Width	高Height	
QWL-1WXG	1.6	0.5	ZG1	850	360	1540	120
QWL-2WXG	2.5	1	ZG1	850	360	1645	280
QWL-3WXG	3.8	1.2	ZG1.5	1010	460	1570	320
QWL-6WXG	6.8	2.1	ZG1.5	1010	460	1940	480
QWL-8WXG	8.5	3	ZG2	1200	500	1940	540
QWL-10WXG	11.5	4	ZG2	1200	500	2200	650
QWL-13WXG	13.5	4	ZG2	1300	500	2200	690
QWL-15WXG	17	5	ZG65	1350	580	2330	780
QML-20WXG	23	6	ZG80	1450	600	2340	920
QML-25WXG	27	8	ZG80	1700	930	2570	1050
QWL-30WXG	34	10	ZG80	1750	960	2626	1200
QWL-40WXG	45	12	ZG100	1850	1060	2646	1530
QWL-50WXG	55	15	ZG100	1900	1120	2730	1750
QWL-60WXG	65	18	ZG125	2160	1240	2784	2230
QWL-80WXG	87	27	ZG125	2416	1440	2827	2710
QWL-100WXG	110	36	ZG150	2560	1560	2827	4173
QWL-160WXG	160	54	ZG200	2760	1760	3136	6479

组合干燥机

COMBINED DRYER



技术规格	Technical specifications
额定进气温度≤45℃	Rated air inlet temperature≤45℃
额定工作压力：7bar(使用范围：6-10bar)	Rated working pressure:7bar(Range of application:6-10bar) Environmental temperature:air cooling type≥2℃, ≤38℃
环境温度：风冷型≥2℃, ≤38℃ 水冷型≥2℃, ≤45℃	water cooling type≥2℃, ≤45℃
压力露点：-40℃-70℃	Pressure dew point:-40℃-70℃
再生方式：DSZ型无热再生 DSZG型微热再生	Regenerating mode:DSZ type: heatless regeneration DSZG type micro-heating regeneration
控制方式：单独控制或联机控制	Control mode:individual control or joint control
再生消耗：3%-5%	Air consumption of regeneration:3%-5%
吸附剂：活性氧化铝	Adsorbing agent:activated aluminum oxide
进气含油量≤0.1mg/m ³	Oil content of inlet air≤0.1mg/m ³
安装：室内无基础，平坦混凝土地面	Installation :no indoor foundation, flat concrete floor

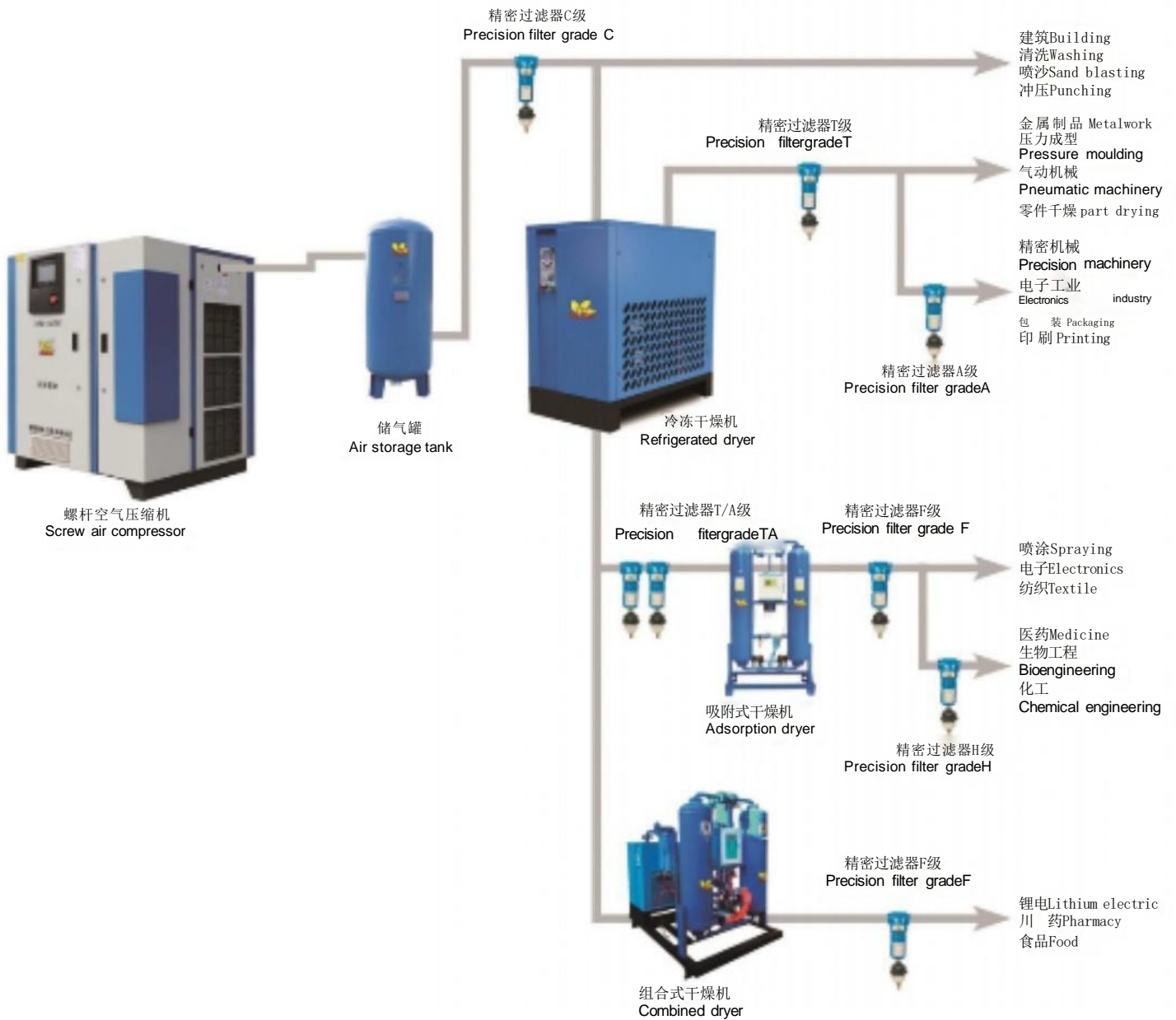
QW 系列组合式干燥机规格及性能参数

Specification and performance parameters of QW Series combined Dryer

项目型号 Project model	空气处理器 Air handling capacity (Nm ³ /min)	电源 Power supply (V/Hz)	空气接管口径 Air tube caliber	冷却水环量 Cooling water circulation (Nm ³ /h)	重量 Weight (kg)	外形尺寸Boundary dimensions 长×宽×高(mm) Length,width and height	
QWL-1CD	1.2	220/50	Rp1"		180	1060*710*1450	
QWL-2CD	2.4				240	1060*710*1600	
QWL-3CD	3.8		Rp1.5"		335	1120*800*1800	
QWL-6CD	6.5				475	1450*1120*1850	
QWL-8CD	8.5				560	1450*1120*2150	
QWL-10CD	10.7	380/50	Rp2	2	850	1450*1320*2150	
QWL-13CD	13.5			2.5	950	1600*1320*2350	
QWL-15CD	17		DN65	3	1060	1600*1320*2350	
QWL-20CD	23		DN80		3.7	1320	1800*1400*2500
QWL-25CD	27				4.4	1700	2000*1500*2900
QWL-30CD	33				5.9	2200	2000*1500*2900
QWL-40CD	45		DN100	7.4	2750	2200*1600*2950	
QWL-50CD	55		DN125		9.5	3350	2200*1600*2950
QWL-60CD	65				11.1	3900	2360*1700*2950
QWL-80CD	85				13	5060	2500*1800*2950

压缩空气净化设备系统安装图

Installation diagram of compressed air purification equipmentsystem



高效精密过滤器

HIGH-EFFICIENCY PRECISION FILTER



空气压缩机高效精密过滤器

Air compressor high efficiency precision filter

采用高密度铝挤型铝壳，正极防锈处理，强制泄压装置等设计，滤网材质为DH 公司独家设计制造，内层采用特殊处理的“硼矽微玻璃纤维”此介质可主动排除水份，及油份以及降低压降及过转成本(内吸附空间可达96%)外层则采用不含矽之泡棉材质，能完全隔离干净空气以及此被吸附的污染物。

High density aluminum extruded aluminum shell, positive anti-rust treatment, forced pressure relief device and so on. The material of filter screen is exclusively designed and manufactured by DH Company. The inner layer is made of "boron silicon micro-glass", which can be used to remove moisture actively. The outer layer is made of silicone free foam cotton, which can completely isolate clean air and the adsorbed pollutants.

分离过滤器 (C级) Separation filter(level C)

适用于滤除大量液体和3微米大小的凝聚物(5ppmw/w) 最大残留油份含量

Suitable for filtering large amount of liquid and 3 micron size agglomeration without 5ppmw/w)maximum residual oil content.

双极过滤Two stage filtering

第一级两根不锈钢孔管，进行10微米机械分离

First stage two stainless tubes for 10 micron mechanical separation.

第二级深层纤维介质滤除3微米的固态和液态颗粒

Filtration of solid and liquid particles in 3 microns by secondary deep fiber media.

主管路过滤器 (T级) Supervisor filter (grade T)

适用于滤除大量液体和1微米大小的凝聚物(1.0ppmw/w) 最大残留油份含量

Suitable for filtering large amounts of liquid and 1 micron size condensate,1.0 ppm w/w)maximum residual oil content.

内/外过滤芯皆防腐蚀双极过滤Internal/external filter cores are anti-corrosion-resistant two stage filtration

第一级多纤维介质和介质滤网，滤除较大的颗粒，在空气进入第二级过滤前进行预过滤。

The first stage stringy medium and the medium filter net filter the larger particles and prefilter before the air enters the second stage filter.

第二层多层黏合混合纤维介质，滤除细小的凝聚物

A second layer of multilayer adhesive fiber media to filter out fine aggregates.

超强效除油过滤器 (F级) Super effective oil removal filter(grade F)

适用于聚结学校的水份和油雾；可滤除小至0.001ppmw/w 最大残留油份含量(5ppmw/w)

W) and oil mist for coalescence schools; can be filtered to the maximum residual oil content of 0.001ppmw/w up to 5 ppm w/w

内/外过滤芯皆防腐蚀双极过滤Internal/external filter cores are anti-corrosion-resistant bipolar filtration

第一级涂膜封闭泡沫套筒，进行预过滤和气流分散。

The first stage film is used to seal the foam sleeve for pre-filtration and airflow dispersion.

第二层多层矩阵混合纤维介质，滤除极小的凝聚物。

The second layer multi-layer matrix blends the fiber medium, filters the extremely small condensate.

外涂膜封闭式泡沫筒

Outer coating closed foam tube

除油蒸汽过滤器(H级) Deoiling steam filter(grade H)

适用于滤除活性炭通常可吸收的油蒸汽和碳氢化合物蒸汽；可滤除小至0.01微米的固态颗粒(0.003ppmw/w 最大残留油份含量)

Suitable for filtering the normally absorbable oil vapor and hydrocarbon vapor of activated carbon, and the maximum residual oil content of 0.003 ppm w/w for solid particles as small as 0.01 micron).

内/外过滤芯皆防腐蚀双极过滤Internal/external filter cores are anti-corrosion-resistant bipolar filtration

第一级极精细的活性炭粉稳定层，可滤除大部分油蒸汽。

The first stage of the very fine active carbon stable layer can filter out most of the oil vapor.

第二层多纤维介质，黏合微精滤活性炭粉，可滤除残留的油蒸汽。

The second layer of stringy fiber medium, bonding micro-fine filter activated carbon powder, can filter residual oil vapor.

项目型号 Project model	空气处理器 Air handling capacity (Nm ³ /min)	空气接管口径 Air be caliber	外形尺寸Boundary			总量 Total quantity (kg)
			长Length	宽Width	高Height	
C、T、A、F、H-001	1.2	ZG1	105	78	250	2
C、T、A、F、H-002	2.4	ZG1	105	78	310	3
C、T、A、F、H-003	3.8	ZG1.5	187	99	400	4
C、T、A、F、H-006	6.5	ZG1.5	187	99	425	5
C、T、A、F、H-010	10.7	ZG2	187	99	620	5
C、T、A、F、H-010	10.7	DN50	310	133	860	25
C、T、A、F、H-013	14	ZG2	135	108	750	10
C、T、A、F、H-013	14	DN50	310	133	860	25
C、T、A、F、H-015	18	ZG2.5	148	125	920	13
C、T、A、F、H-015	18	DN65	310	133	860	25
C、T、A、F、H-020	22	ZG2.5	148	125	920	14
C、T、A、F、H-020	22	DN80	379	158	1040	44
C、T、A、F、H-030	35	DN100	465	219	1060	65
C、T、A、F、H-040	45	DN125	470	219	1060	69
C、T、A、F、H-054	54	DN125	513	270	1215	96
C、T、A、F、H-066	60	DN125	513	273	1215	96
C、T、A、F、H-088	88	DN150	615	325	1395	140
C、T、A、F、H-110	110	DN150	615	416	1395	145
C、T、A、F、H-132	132	DN150	615	416	1395	210
C、T、A、F、H-150	150	DN200	615	416	1395	220
C、T、A、F、H-180	180	DN200	615	466	1395	235
C、T、A、F、H-200	200	DN200	615	466	1395	240
C、T、A、F、H-230	230	DN200	615	466	1395	265

空压机储气罐规格表

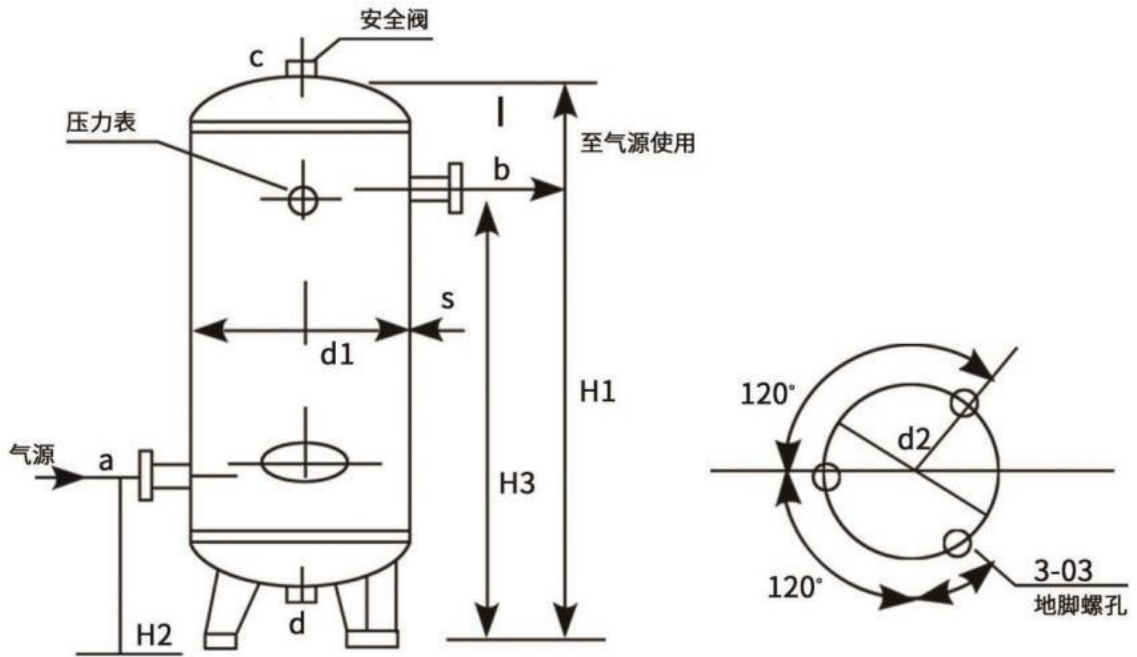
SPECIFICATION TABLE OF AIR TANK OF AIR COMPRESSOR

序号 No.	型号 Model 容积/工作/压力 Volume/operation/pressure	设计温度 Designed temperature	容器总高H班 Total container height	容器内径 Containet inner diameter	进气口 Air inlet			出气口 Air outlet			支座 Support		安全阀接口 Relief valve connector	排污阀接口 Drainage valve connector
					H2	DN	螺纹式 Thread type	H3	DN	螺纹式 Thaead typ				
1	0.3/0.8	110	1594	550	642	50	Rp1' /2	1242	50	Rp1':/2	400	20	RP3/4	R1/2
2	0.3/1.0		1594		642			1242						
3	0.3/1.3		1598		644			1244						
4	0.3/1.6		1598		644			1244						
5	0.6/0.8	110	1905	700	680	65	Rp1' /2	1550	65	Rp1':/2	490	24	RP3/4	R1/2
6	0.6/1.0		1907		681			1551						
7	0.6/1.3		1909		682			1552						
8	0.6/1.6		1907		681			1551						
9	1.0/0.8	110	2325	800	690	65	Rp2	1920	65	Rp2	560	24	R1	R1/2
10	1.0/1.0		2327		691			1921						
11	1.0/1.3		2331		693			1923						
12	1.0/1.6		2327		691			1921						
13	1.5/0.8	110	2562	900	750	65	Rp2	2116	65	Rp2	630	24	R1	R1/2
14	1.5/1.0		2564		752			2117						
15	1.5/1.3		2562		751			2116						
16	1.5/1.6		2566		753			2118						
17	2.0/0.8	110	2782	1000	761	80		2321	80		700	24	RP1' /4	R1/2
18	2.0/1.0		2786		763			2323						
19	2.0/1.3		2788		764			2324						
20	2.0/1.6		2786		763			2323						
21	2.5/0.8	110	3302	1000	761	80		2841	80		700	24	RP1+/4	R1/2
22	2.5/1.0		3306		763			2843						
23	2.5/1.3		3302		761			2841						
24	2.5/1.6	110	2836	1100	788	80		2848	80		770	24	RP1' /4	R1/2
25	3.0/0.8	110	2944	1200	872	80		2432	80		906	24	RP1' /2	R3/4
26	3.0/1.0		2946		873			2433						
27	3.0/1.3		2946		873			2433						
28	3.0/1.6		2980		890			2450						
29	4.0/0.8	110	3036	1400	913	100		2473	100		1050	24	RP1' /2	R3/4
30	4.0/1.0		3040		915			2475						
31	4.0/1.3		3036		913			2473						
32	4.0/1.6		3040		915			2475						
33	5.0/0.8	110	3726	1400	913	100		1550	100		1050	24	RP2	R3/4
34	5.0/1.0		3730		915			1551						
35	5.0/1.3		3726		913			1552						
36	5.0/1.6		3730		915			1551						

序号 No.	型号 Model 容积/工作/压力 Volume/operation/pressure	设计温度 Designed temperature	容器总高H Total container height	容器内径 Containet inner diameter	进气口 Air inlet			出气口 Air outlet			支座 Support		安全阀接口 Relief valve connector	排污阀接口 Drainage valve connector
					H2	DN	螺纹式 Thread type	H3	DN	螺纹式 Thread type	D	d		
37	6.0/0.8	110	4346	1400	913	125		3633	125		1050	24	RP2	R3/4
38	6.0/1.0		4350		915			3635						
39	6.0/1.3		4346		913			3633						
40	6.0/1.6		4350		915			3635						
41	8.0/0.8	110	3154	2000	1082	125		2362	125		1500	32	RP2	R3/4
42	8.0/1.0		3158		1084			2364						
43	8.0/1.3		3194		1102			2382						
44	8.0/1.6		3198		1104			2384						
45	10.0/0.8	110	3754	2000	1082	150		2962	150		1500	32	RP2' /2	R3/4
46	10.0/1.0		3758		1084			2964						
47	10.0/1.3		3794		1102			2982						
48	10.0/1.6		3798		1104			2984						
49	12/0.8	110	4354	2000	1082	150		3562	150		1500	32	RP2' /2	R3/4
50	12/1.0		4358		1184			3564						
51	12/1.3		4394		1102			3582						
52	12/1.6		4398		1104			3584						
53	15/0.8	110	4531	2200	1208	150		3618	150		1650	32	RP2 ² /2	R1
54	15/1.0		4565		1225			3635						
55	15/1.3		4569		1227			3637						
56	15/1.6		4577		1231			3641						
57	20/0.8	110	5248	2400	1349	200		4169	200		1800	32	RP3	R1
58	20/1.0		5250		1350			4170						
59	20/1.3		5258		1354			4174						
60	20/1.6		5262		1356			4176						
61	25/0.8	110	6148	2400	1349	200		5069	200		1800	32	RP3	R1
62	25/1.0		6150		1350			5070						
63	25/1.3		6158		1354			5074						
64	25/1.6		6162		1356			5076						
65	30/0.8	110	6708	2500	1374	200		5604	200		1875	36	PR3	R1
66	30/1.0		6714		1377			5607						
67	30/1.3		6718		1379			5609						
68	30/1.6	110	6722	2600	1381	200		5611	200		1875	36	PR3	R1
69	40/0.8		8888		1374			7414						
70	40/1.0		8894		1377			7417						
71	40/1.3		8898		1379			7419						

储气罐示意图

The sketch map of air storage tank



Head Office & Manufacturing Unit:

ANHUI GLEADER INTELLIGENT TECHNOLOGY CO. LTD.

Address: No. 18, Xishan Road, Economic Development Zone, Nanling County, Wuhu City, Angui Province, China

TEL: +86-553-6695598

FAX: +86-553-6856633

Email: gleadercn@gleaderpraise.com, Website: www.gleaderpraise.com

International Sales Office:

DUBAI, U. A. E, BIZ-HUB:

GLEADER PRAISE LLC-FZ

Address: The Meydan Hotel,
Grandstand, 6th floor, Meydan Road,
Nad Al Sheba, Dubai, U. A. E,

Tel: +971-586177407

Email: office@gleaderpraise.com.

Website: www.gleaderpraise.com

SINGAPORE BIZ-HUB:

PRAISE TECHNOLOGIES PTE. LTD.

31 Hougang, Avenue 7, #09-03 Evergreen Park
Singapore 538800

Tel: +65 90095749

Email: gleadersg@gleaderpraise.com

Website: www.gleaderpraise.com