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Airstone Screw Air Compressor Manufacturer

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## **COMPRESSED AIR SYSTEM SELECTION GUIDE**

压缩空气系统选型手册

## COMPANY PROFILE

### 公司简介

东莞市仟威机械设备有限公司,具有设计、研发、生产、销售服务于空气压缩机这一套完善体系。所有产品的核心部件均采用国际名牌产品,结合施盛空压机精湛的技术、严格的工艺和ISO9001质保体系,无论是在高温、高湿环境,还是低电压的启动,空压机都能每年365天不间断使用,并使每一台机器能实现高效率、低能耗、安全可靠、寿命长等特点。

仟威注重吸收国外同行的先进技术和管理经验,拥有深厚的技术积淀和一流的创新能力,能依用户的特殊个性化需求进行技术改造及创新,以最快速度设计出最先进、最合乎实际、最经济的优质可靠产品。

我们坚持“品质,铸就信赖”的经营理念,愿在空气处理领域中努力开拓,竭诚奉献!为用户提供一流的空气处理整体解决方案。

Dongguan Qianwei Machinery Equipment Co., LTD has a complete system of professional design, R & D, production and sales service for air compressor. The core components of all products are international famous brand products, combined with the superb technology, strict technology and ISO9001 quality assurance system of Shisheng air compressor. No matter in high temperature, high humidity environment or low voltage startup, the air compressor can be used continuously for 365 days every year, and each machine can achieve the characteristics of high efficiency, low energy consumption, safety and reliability, long service life, etc.

Qianwei attaches great importance to absorbing the advanced technology and management experience of foreign counterparts, has profound technology accumulation and first-class innovation ability, can carry out technical transformation and innovation according to the special personalized needs of users, and design the most advanced, practical and economic quality and reliable products at the fastest speed.

We adhere to the business philosophy of "quality, build trust", and are willing to work hard in the field of air treatment, dedication! Provide customers with first-class overall air treatment solutions.



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# MEDIUM PRESSURE AIR COMPRESSOR

中压空压机



AS-20030-D/AS-24030-D

## 功能 Features

适合PET吹瓶、检漏、试压等行业!

上海施盛高压空气压缩机性能优良、运转平稳、高效节能、使用寿命长。

经各种场合长期运行及考验：效率更高、可靠性更高(可24小时连续不停机运行)、寿命更长、噪声更低、排气温度更低、油耗更低。是为中高压作业特别精心设计的系列产品。其主要性能指标均达到或超过了国际同类产品先进水平。

上海施盛高压空气压缩机，以其先进的技术，优良的性能，被业内人士称为压缩机中的精品

Suitable for PET bottle blowing, leak detection, presurizing and other industries! Shanghai ShiSheng high-pressure air compressor excellent performance, stable operation, high efficiency and energy saving, long service life.

Through various occasions long-term operation and test higher efficiency, higher reliability (24 hours non-stop running), longer life, lower noise, less vibration, lower exhaust temperature, more fuel-efficient, is designed for high pressure operation in special series products. Their main performance indexes reach or exceed the international advanced level of similar products.

Shanghai ShiSheng high-pressure air compressor, with its advanced technology, excellent performance, the personage inside course of study called a compressor products.

## 产品应用

适合PET吹瓶、检漏、试压等行业!



AS-1.0/30-D  
AS-1.2/30-D



AS-0.6/6D

## 特点 Features

- 阀片：采用瑞典不锈钢带制成。
- 活塞环：采用日本理研环，单体浇铸镀铬环，寿命延长3倍。
- 活塞：增压活塞采用重载铸铁活塞。
- 连杆：采用带滚针轴承连杆。
- 曲轴轴承：重载、长寿、低噪音轴承。
- 主机轮：铁风扇、主机轮经过严格的动平衡，减少震动。
- 压力控制器：采用世界知名品牌。
- 冷却、过滤：一级到二级经过高效冷却和过滤，二级压缩的空气低温、清洁。
- 排污：采用自动、电子排污阀（选配）。

- Valve disc: Made of Swedish stainless steel strip.
- Piston ring: Japan's Riken ring, single casting chrome-plated ring, 3 times longer life.
- Piston: The booster piston uses a heavy-duty cast iron piston.
- Connecting rod: using connecting rod with needle bearings.
- Crankshaft bearings: Heavy-duty, long-life, low-noise bearings.
- Main engine wheel: iron fan and main engine wheel under strict dynamic balance to reduce vibration.
- Pressure controller: world famous brand.
- Cooling and filtering: The first to second stage is cooled and filtered with high efficiency.
- Sewage: using automatic, electronic sewage valve (optional).

## 性能参数 Technical Data

型号	排气量 m³/min	排气压力 Mpa	压缩级数	冷却方式	功率 KW	转速 r/min	缸径数 mm	外形尺寸 mm	重量 kg
ASH-6030	0.6	3.0	二级	风冷	7.5	830	2×φ95+1×φ95	1470×530×1020	290
ASH-8030	0.8	3.0	二级	风冷	9	800	2×φ100+1×φ95	1490×600×1160	430
AS-10030-D	1.0	3.0	二级	风冷	11	860	2×φ120+1×φ95	1550×800×1350	440
AS-12030-D	1.2	3.0	二级	风冷	15	830	2×φ120+1×φ95	1550×700×970	440
AS-16030-D	1.6	3.0	三级	风冷	18.5	830	2×φ135+1×φ120+1×φ65	1550×740×1020	500
AS-20030-D	2.0	3.0	二级	风冷	2×11	830	2× (2×φ120+1×φ95)	1500×1300×1000	650
AS-24030-D	2.4	3.0	二级	风冷	2×15	780	2× (2×φ125+1×φ95)	1730×900×1100	430
AS-8040-D	0.8	4.0	三级	风冷	11	780	1×φ130+1×φ65+1×φ36	1650×730×1150	550
AS-12040-D	1.2	4.0	三级	风冷	18.5	800	2×φ120+1×φ100+1×φ65	1550×700×1020	480
AS-20040-D	2.0	4.0	三级	风冷	22	730	2×φ155+1×φ120+1×φ60	1170×1000×1780	800
								1950×1000×1100	1150
AS-6060-D	0.6	6.0	三级	风冷	11	660	1×φ130+1×φ65+1×φ34	1650×730×1150	560
AS-10060-D	1.0	6.0	三级	风冷	15	820	2×φ120+1×φ75+1×φ36	1630×760×1350	600
AS-12060-D	1.2	6.0	三级	风冷	22	780	2×φ125+1×φ80+1×φ42	1700×850×1300	650



## AIR-COOLED TURBO AIR COMPRESSOR

风冷式有油增压空压机



AS-3.0/30-8



AS-6/30-8

### 功能 Features

为了满足行业的需要，增压系统会空压机排出的低压气源再次压缩以便达到所需要的压力。  
广泛运用于需要给低压气源加压的行业。

### 特点 Features

- 螺杆增压系统是低噪音，高性能的压缩机系统，有很好的稳定性。
- 全自动卸压系统，确保机组在无负荷情况下安全启动，延长压缩机使用寿命，对主机及电机起保护作用。
- 压缩机采用独特高效的风冷式冷却器，设计合理，散热效果优良，最终排气温度不高于环境温度20℃。
- 整体结构设计设计的合理性以及高强度高质量的零部件确保了机器稳定可靠耐用，真正能24小时连续运转。

In order to meet the needs of the industry, will air compressor discharge pressurization system of low pressure air compressed again in order to achieve the required pressure.  
Low air pressure are widely applied to industry

- Screw pressurization system is low noise, high performance of the compressor system, has a good stability.
- Automatic unloading system, ensuring the security of the unloader the condition of no load startup, prolong the service life of the compressor, the host and motor protection.
- Compressor with unique and effective air-cooled chiller, reasonable design, good heat dissipation effect, eventually exhaust temperature is not higher than the environment temperature 20℃.
- The rationality of the design of overall structure, and high strength and high quality parts to ensure the machine is stable and reliable, durable, can really 24 hours of continuous operation.

## TWO-STAGE COMPRESSION SCREW AIR COMPRESSOR

永磁变频螺杆增压一体机



AS-5/30-8

### 功能 Features

一级压缩转子和二级压缩转子组合在一个机壳内，并分别通过齿轮直接传动，使每级转子都能获得最佳线速度，因此，压缩效率较高。

采用两级压缩可有效降低能耗：在压缩同等气量下，两级压缩比单级压缩平均可节省15%的功率。

每级压缩比低，转子和轴承的受力小，加上转子直径大、转速低，所以运行更可靠。

广泛运用于需要给低压气源加压的行业。

Primary compression rotor and secondary compression rotor combinations within a chassis, and directly by gear transmission, make rotor can get optimal linear velocity per level, therefore, high compression efficiency.

Adopt two stage compression can effectively reduce the energy consumption: under the equal volume compression, two stage compression than single stage compression can save an average of 15% of power.

Each stage compression ratio is low, the rotor and bearing force is small, plus a large rotor diameter, rotational speed is low, so the operation more reliable.

### 螺杆增压机系统安装示意图



有油无油压缩技术，确保压缩机后输出无水无油，清洁空气。

### 使用注意事项

- 1、增压机安装时应选择在坚实平整的场地上加以固定，促使整机平稳运行
- 2、增压机油使用1000小时需要更换（原厂提供的专用增压机油）
- 3、易损件三千小时定期更换（活塞环、阀片、轴瓦、电子阀膜片、单向阀芯）
- 4、电子油位保护器使用500小时，必须拧开清洗一次
- 5、故障使用原厂配件，使用非本公司配件一律不负责三包

# AIR-COOLED OIL-FREE SUPERCHARGER

风冷式无油增压机



## 特点 Features

- 前级螺旋压缩，发挥螺杆体积小、稳定可靠的优势；
- 可搭载两级压缩、(永磁)变频等节能螺杆主机，极致节能；
- 后级两级以上活塞增压，低速、低压比(节能)、可靠、体积小；
- 水冷活塞缸，排气温度 $\leq 130^{\circ}\text{C}$ ，恶劣工况下24小时工作；
- 无油，代表食品安全的行业趋势；
- 振动小：与一般螺杆机的振动大小无异，无需安装基础；
- 超低噪音：螺杆大转子低转速设计，活塞转速520rpm以下，整机11m 处噪音75-82 dB(A)；
- 气、水管路为304不锈钢材质，永不生锈，永不污染；
- 系统采用PLC液晶触摸屏控制，可远程监控。

## 主机部分

- 铸件材质、零件加工、装配精度；
- 活塞和活塞杆的表面氧化、硬化处理；
- 填料环密封环的设计、材质、冷却技术；
- 气阀叶片及弹簧设计、材质、加工精度；
- 注油泵及润滑技术；
- 动平衡设计技术。

## 系统部分

- 级间冷却喷水、除污技术、保护活塞环及填料；
- 余气调压入气技术；
- 各种气功防共振技术；
- 彻底排污不堵塞技术。

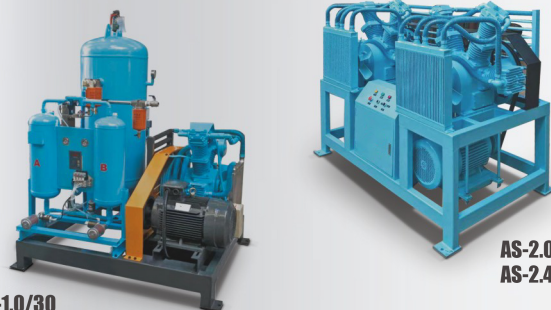
- Screw pressurization system is low noise, high performance of the compressor system, has a good stability.
- Automatic unloading system, ensuring the security of the unbinder the condition of no load startup, prolong the service life of the compressor, the host and motor protection.
- Compressor with unique and effective air-cooled chiller, reason-able design, good heat dissipation effect, eventually exhaust temperature is not higher than the environment temperature  $20^{\circ}\text{C}$ .
- The rationality of the design of overall structure, and high strength and high quality parts to ensure the machine is stable and reliable, durable, can really 24 hours of continuous operation.

- Casting material, parts processing and assembly accuracy;
- Surfaces of pistons and piston rods are nitrided and hardened;
- Design, material and cooling technology of packing and piston ring;
- Design, material and processing accuracy of air valve disc and spring;
- Oil pump and lubrication technology;
- Dynamic balancing design technology.

- Interstage cooling and water removal and decontamination technology to protect piston rings and packings;
- Exhaust gas rejection technology;
- Anti-resonance technology in various working conditions;
- Thorough drainage without clogging technology.

# LASER CUTTING OIL-FREE MACHINE

激光切割无油一体机



AS-1.0/30  
AS-1.2/30

AS-2.0/30  
AS-2.4/30

## 特点 Features

- 配备高效可靠的压缩主机，主机与柴油机通过高弹性联轴器直联，效率高，可靠性更好，寿命更长。
- 柴油机选用康明斯、玉柴等国内外名牌柴油机，符合国II排放标准，动力强劲，燃油率低，有覆盖全国的售后服务体系，用户可得到迅速、完善的服务。
- 气量控制系统简洁可靠，根据进气量的大小，对进气量进行0-100%的自动调节，同时自动调节柴油机主机，最大限度节约柴油。
- 微电脑智能监控空压机气压力、排气温度、柴油机转速、油压、水温、油箱液位等运行参数，具有自动报警和停机保护功能。
- Screw pressurization system is low noise, high performance of the compressor system, has a good stability.
- Automatic unloading system, ensuring the security of the unbinder the condition of no load startup, prolong the service life of the compressor, the host and motor protection.
- Compressor with unique and effective air-cooled chiller, reason-able design, good heat dissipation effect, eventually exhaust temperature is not higher than the environment temperature  $20^{\circ}\text{C}$ .
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## 性能参数 Technical Data

型号	排气量 $\text{m}^3/\text{min}$	排气压力 $\text{Mpa}$	柴油机功率 Power KW	含油量 Exhaust oil content $\text{g}/\text{m}^3$	备注 Note
GMD-42-7	4	0.7	42	$\leq 6$	二轮
GMD-58-8	7	0.8	58	$\leq 6$	二轮
GMD-110-8	12	0.8	110	$\leq 6$	二轮
GMD-110-14.5	10	1.45	110	$\leq 6$	二轮
GMD-140-8	17	0.8	140	$\leq 6$	四轮
GMD-140-13	15	1.3	140	$\leq 6$	四轮
GMD-180-8	20	0.8	180	$\leq 6$	四轮
GMD-180-8.6	22	0.86	180	$\leq 6$	四轮
GMD-180-14.5	17	1.45	180	$\leq 6$	四轮
GMD-194-14.5	22	1.45	194	$\leq 6$	四轮
GMD-194-17	18	1.7	194	$\leq 6$	四轮
GMD-265-20	26	2.0	265	$\leq 6$	四轮
GMD-336-25	30	2.5	336	$\leq 6$	四轮