应用行业 APPLICATION INDUSTRY

压缩空气通常与产品或者包装直接接触，零等级无油空气阻止油污直接转移到产品上；对于工艺上无菌空气的要求，零等级无油空气更是必不可少，我们零等级压缩空气技术可避免产品安全的问题。

Compressed air is usually in direct contact with the product or packaging, and zero-grade oil-free air prevents oil contamination from being transferred directly to the product. Grade zero oil-free air is essential for process sterile air requirements, and our compressed air technology class zero avoids product safety issues.

压缩空气的品质对于化工生产行业，安全是第一要素，安全管理，设备故障，操作失误，未知的化学反应等，无油压缩空气可帮助化工生产商通过压缩空气系统将风险降到最低。

For the chemical production industry, safety is the first element, safety management, equipment failure, operating errors, unknown chemical reactions, etc., oil-free compressed air can help chemical producers to minimize risks through compressed air systems.

无油压缩空气通过高温压缩为生产食品和饮料的厂商避免污染的风险，在包装、填充和加盖等流程中，压缩空气通常都是直接和产品接触的，零等级百分百无油空气确保了高产品纯度，消除了终端产品被污染的风险，避免了潜在的健康危害。

Oil-free compressed air through high-temperature compression for manufacturers of food and beverages to avoid the risk of contamination, in the packaging, filling and capping processes, compressed air is usually directly in contact with the product, zero grade 100% oil-free air to ensure high product purity, eliminate the risk of end product contamination, avoid potential health hazards.

在汽车的装配过程中，干式无油螺杆空压机的压缩空气被用在机器人的运行上，机器人对压缩空气的质量和油的存在很排斥，会妨碍它们的运行，结果导致更换部件的费用增加和生产的停止。

In the assembly process of the car, the compressed air of the dry oil-free screw air compressor is used in the operation of the robot. Robots are repulsed by the quality of compressed air and the presence of oil, which hinders their operation, resulting in increased costs for replacement parts and halting production.

喷气织机需要干燥且无油的空气。在生产过程中，精细喷嘴会将空气吹到线束上，形成涡流，从而赋予纱线形状、弹力和弹性，无油压缩机提供的纯净压缩空气可以保证布匹成品的质量。

Air-jet looms require dry and oil-free air. During production, fine nozzles blow air onto the harness, creating a vortex that gives the yarn shape, elasticity and elasticity, and the pure compressed air supplied by the oil-free compressor guarantees the quality of the finished fabric.

压缩空气主要应用在控制仪表，火力发电机组的运行需要大量的控制仪表来支持操作。而这些控制仪表的动作都是靠无油压缩空气来控制的，其中烟道气体脱硫也需要无油压缩空气。

Compressed air is mainly used in control instruments, and the operation of thermal power units requires a large number of control instruments to support operations. The actions of these control instruments are controlled by oil-free compressed air, and the desulfurization of flue gas also requires oil-free compressed air.

干式无油螺杆机技术参数
DRY OIL-FREE SCREW AIR COMPRESSOR TECHNICAL PARAMETER LIST

型 号 Model	排气压力 Pressure (Mpa)	排气量 Air Flow (m^3/min)	电机功率 Motor Power (KW)	出口尺寸 Outlet Size (inch)	机组外形尺寸 Dimension L×W×H(mm)	机组净重 Net Weight (kg)
AY-55A/W-D(-AM)	0.7	8.9	55	DN65	3000×1600×1700	3050
	0.8	8.3				
	1.0	7.6				
AY-75A/W-D(-AM)	0.7	13	75	DN65	3000×1600×1700	3300
	0.8	12.1				
	1.0	11.8				
AY-90A/W-D(-AM)	0.7	15.4	90	DN65	3000×1600×1700	3600
	0.8	14.6				
	1.0	13.8				
AY-110A/W-D(-AM)	0.7	20	110	DN80	3750×1700×2000	4050
	0.8	19				
	1.0	15.9				
AY-132A/W-D(-AM)	0.7	21.9	132	DN80	3750×1700×2000	4500
	0.8	21.2				
	1.0	19				
AY-145A/W-D(-AM)	0.7	23.4	145	DN80	3750×1700×2000	5200
	0.8	22.8				
	1.0	20.2				
AY-160A/W-D(-AM)	0.7	29.4	160	DN100	4100×2000×2100	6350
	0.8	27.1				
	1.0	25.1				
AY-200A/W-D(-AM)	0.7	37.9	200	DN100	4100×2000×2100	7000
	0.8	34.5				
	1.0	31.1				
AY-250 W-D(-AM)	0.7	45.4	250	DN125	4250×2000×2100	7550
	0.8	43.1				
	1.0	38.9				
AY-280 W-D(-AM)	0.7	48.6	280	DN125	4250×2000×2100	8000
	0.8	45.2				
	1.0	42.5				
AY-300 W-D(-F)	0.7	49.5	300	DN125	4400×2200×2250	9000
	0.8	46.1				
	1.0	43.3				
AY-315 W-D(-F)	0.7	53.3	315	DN125	4400×2200×2250	9350
	0.8	49.1				
	1.0	46.8				
AY-355 W-D(-F)	0.7	59.2	355	DN125	4400×2200×2250	9850
	0.8	54.7				
	1.0	51.5				
AY-400 W-D(-F)	0.7	65.6	400	DN150	4550×2200×2250	10500
	0.8	60.5				
	1.0	57.1				
AY-425 W-D(-F)	0.7	74	425	DN150	4550×2200×2250	10900
	0.8	68.2				
	1.0	62.1				

售后服务 AFTER-SALES SERVICE

艾玛压缩机在国内具有较完善的经销商服务体系及5个公司直属售后服务办事处，海外40多个国家分布约130家经销商。可有效对接客户及国内外各种订单，并提供及时有效的售后服务。

AirHorse Compressor has a complete dealer service system in China and 5 after-sales service offices directly under the headquarters, and we have about 130 dealers in more than 40 countries overseas. It can effectively provide service for our customers and process various orders in China and abroad market, we will provide timely and effective after-sales service for you.

AirHorse 艾玛

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*免责声明：本参数表仅供参考，本公司可能对相关参数进行调整，如有变动，恕不另行通知，若有不明处，欢迎来电询问。
*DISCLAIMER: This parameter list is for reference only. We may adjust the related parameter. If there is any change, we will not inform you otherwise. If you do not know, please call us.

DRY OIL-FREE SCREW AIR COMPRESSOR
干式无油螺杆机

AirHorse® 艾玛压缩机

广州艾玛压缩机有限公司
GUANGZHOU AIRHORSE COMPRESSOR CO.,LTD

DRY OIL-FREE SCREW AIR COMPRESSOR 干式无油螺杆机

干式无油螺杆机 DRY OIL-FREE SCREW AIR COMPRESSOR

艾玛AHY干式无油螺杆机为生产企业提供100%全无油纯净高品质压缩空气。专业的无油螺杆技术与卓越的系统结构设计能力确保设备运行持久、安全可靠、性能出众。

AirHorse AHY Series Dry Oil-Free Screw Air Compressor provides 100% oil-free,pure and high-quality compressed air for manufacturers. Professional oil-free screw technology and excellent system structure design capabilities ensure long-lasting, safe and reliable equipment with outstanding performance.

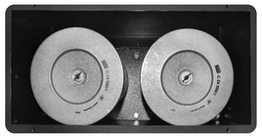
核心技术 CORE TECHNOLOGY

1 永磁变频电机 PERMANENT MAGNET VARIABLE FREQUENCY MOTOR

- 采用钕铁硼磁性材料，可承受180℃高温
- 防护等级IP55，绝缘等级F级
- 启动力矩大，调试范围广、结构紧凑、重量轻、体积小
- 电机内置PTC，提供全面的过热和过载保护
- Using neodymium iron boron magnetic material, can withstand high temperature of 180°C.
- Protection class IP55, insulation class F.
- Large starting torque, wide debugging range, compact structure, light weight and small size.
- The motor has a built-in PTC to provide comprehensive overheat and overload protection.

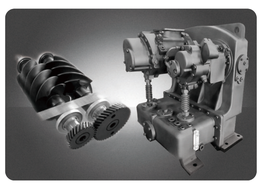
2 进气消音系统 INTAKE SILENCER SYSTEM

- 特殊设计的空滤进气通道，大幅度降低进气和进气阀卸载噪音。
- 独特的空滤箱体结构，保证进气的同时，大大的降低了噪音向机器外部传播。
- The specially designed air filter intake channel greatly reduces the unloading noise of the intake air and intake valve.
- The unique structure of the air filter box ensures air intake while greatly reducing the noise, transmission to the outside of the machine.



3 无油螺杆主机 OIL-FREE SCREW HOST

- 机头由低压级机体、高压级机体组合而成：两级机头由同一个电机所驱动，机头自带变速齿轮箱，一级排气压力大约为2.2Bar，压缩空气经过中间冷却器进入二级机头继续压缩。
- 两对经久耐用性能卓越的不锈钢转子
- The air end is composed of a combination of low-pressure stage body and high-pressure stage body: the two-stage air end is driven by the same motor, the air end has its own variable speed gearbox, the exhaust pressure of the first stage is about 2.2bar, and the compressed air enters the secondary air end through the intercooler to continue compression.
- Two pairs of stainless steel rotors with excellent durability.
- The surface of the rotor and the inner wall of the compression chamber are made of thin and durable coating protective layer.
- The protective coating also ensures precise meshing of the rotor.
- More stable performance, more resistant to high temperature, no corrosion, long service life.
- 转子表面和压缩腔内壁均采用薄而耐用的涂装防护层
  防护涂层还能保证转子精密的啮合
  性能更稳定，更耐高温，无腐蚀，使用寿命长



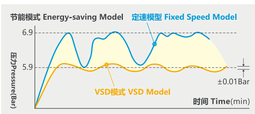
4 矢量变频器 VECTOR FREQUENCY CONVERTER

- 采用国内一流品牌厂家的变频器
- 采用精准矢量控制技术，从而使得机组可以在机器宽广的转速范围内，确保在电机温升更小的条件下，得到合适的扭矩去平稳地驱动空压机运转，使客户在使用时更加稳定、节能
- 专用的变频器保护柜，防护等级高，性能稳定
- Adopt the domestic first-class brand inverter.
- Adopt the accurate vector control technology, so that the unit can obtain the appropriate torque to drive the air compressor smoothly under the condition that the temperature rise of the motor is smaller in the wide speed range of the machine, is more stable, comfortable and energy saving when using it.
- Special inverter protection cabinet, high protection level, stable performance.

真正实现恒压控制技术 TRULY REALIZE CONSTANT VOLTAGE CONTROL TECHNOLOGY

可以进行压力变动幅度±0.01Mpa以下的高精度的恒压控制，从而有效地为使用机器提供所需要的最合适压力空气。而且，设定压力的精度为0.01Mpa，精确设定实现最大程度的节能。

High-precision constant pressure control with pressure fluctuation amplitude ±0.01Mpa or less can be carried out, so as to effectively provide the most suitable pressure air required for the use of the machine.
In addition, the accuracy of setting pressure is 0.01Mpa, and the precise setting realizes maximum energy saving.



5 油雾回收系统 OIL MIST RECOVERY SYSTEM

配置油雾回收系统，有效回收齿轮箱油雾蒸汽。
Equipped with oil mist recovery system to effectively recover gearbox oil mist vapor.

6 主控器 MAIN CONTROLLER

干式无油专用控制器，标配云端服务系统，方便直观了解设备运行状况，轻松实现数据查询、统计等功能。
Dry oil-free special controller, standard cloud service system, convenient to intuitively understand the equipment operating status, easy to achieve data query, statistics and other functions.

7 油 泵 OIL PUMP

全系列标配独立润滑油泵，保持系统润滑油压在规定的油压范围内稳定运行；更是在变频至低频情况下，同样能保证系统油压范围，能更好地匹配变频系列机组。
The whole series is equipped with independent lubricating oil pump as standard to maintain stable operation of the system lubricating oil pressure within the specified oil pressure range; Moreover, in the case of frequency conversion to low frequency, it can also ensure the oil pressure range of the system, and can better match the frequency conversion series units.

8 冷却器 COOLER

高效冷却系统，配置不锈钢管翅预冷却器，兼顾可靠性和冷却效率。
Efficient cooling system with stainless steel tube fin pre-cooler for reliability and cooling efficiency.

9 气水分离器 AIR-WATER SEPARATOR

自主开发的级间气水分离器，无滤芯设计，永久免维护。有效分离经一级机体压缩后的高温空气冷凝水，防止冷凝水进入 二级机体，保证及延长二级机体的使用寿命。

Self-developed interstage air-water separator, filterless design, permanent maintenance-free. Effectively separate the high-temperature air condensate compressed by the primary machine, prevent condensate from entering the secondary machine, and ensure and extend the service life of the secondary machine.

Class 0 级别无油空气认证 CLASS 0 OIL-FREE AIR CERTIFICATION

CLASS 0
ISO 8573-1

艾玛压缩机以设计和制造高稳定性的螺杆压缩机而知名。AHY系列压缩机也来自这个传统。高品质无油空气是很多行业的理想之选，AHY系列提供了较高的可靠性和安全性，同时将能耗控制在较低水平。

Airhorse Compressor is known for designing and manufacturing highly stable screw compressors. AHY series compressors also come from this tradition. High-quality, oil-free air is ideal for many industries, and the AHY series offers high reliability and safety while keeping energy consumption to a minimum.

Class 0 无油空气 CLASS 0 OIL-FREE AIR

始终努力追求前沿的技术以满足客户所需。通过不断的研发，艾玛压缩机拥有了真正的无油压缩技术，全新的产品获得了CLASS 0 的认证。

Always strive to pursue cutting-edge technology to meet the needs of customers. Through continuous research and development, AirHorse compressor have true oil-free compression technology, and the new product has obtained CLASS 0 certification.

消除所有风险 ELIMINATE ALL RISKS

坚守对客户的承诺，我们邀请TÜV组织为该系列无油压缩机做了无油认证。该认证采用了严格的测量方法，在一定了温度和压力下测量了所有可能的油的存在形式。TÜV在下游的的空气中没有发现任何油的痕迹。

Keeping with our commitment to our customers, we invited the TÜV organization to certify this series of oil-free compressors as oil-free. The certification uses a rigorous measurement method to measure all possible forms of oil presence at a certain temperature and pressure. TÜV found no traces of oil in the air downstream.

CLASS	总含油量（气溶胶，液体，气态）mg/m³ Total Oil Content (Aerosol, Liquid, Gaseous)mg/m³
0	由用户或者供应商指定的高于CLASS1的等级 A level higher than CLASS 1 specified by the user or supplier
1	< 0.01
2	< 0.1
3	< 1
4	< 5