



PM VSD SCREW AIR COMPRESSOR
永磁变频螺杆机

AirHorse[®]
艾玛压缩机



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





更稳定

MORE STABLE

变频调速·供气压力稳定 Variable frequency regulation stable supply pressure

✓ 采用充分发挥节能效果的变频调速控制，打造节电省力的新一代节能压缩机

Adopting frequency conversion speed control to make full use of energy-saving effects to create a new generation of energy-saving compressor that saves electricity and energy



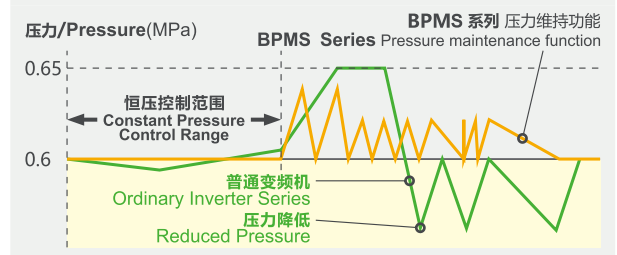
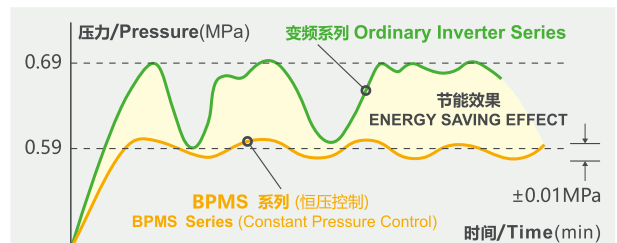
空压机传统的控制方式是通过调节入口阀的开度来进行吸入截流，从而调节进风量，且大量的能源消耗在阀门的截流过程中，当使用变频调速时，如果需要调节流量，通过主机转速即可满足要求，大大降低能源消耗。

The traditional control method of the air compressor is to adjust the opening of the inlet valve to carry out the suction cut-off, and then to adjust the intake air volume, and a large amount of energy is consumed in the process of valve closure.

When the frequency conversion is used, if the flow is needed to be adjusted, the host speed can meet the requirements and greatly reduce the energy consumption.

✓ 通过恒压控制，以必要的压力提供所必须的空气量

Provide the necessary amount of air with the necessary pressure through constant pressure control



可以进行压力变动幅度 ± 0.01 MPa以下的高精度的恒压控制，从而有效地为使用机器提供所必要的最合适压力的空气。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-accuracy constant-pressure control with a pressure variation range of ± 0.01 MPa or less can be performed, effectively providing the machine with the most suitable air pressure necessary. Moreover, the accuracy of the set pressure is 0.01MPa, accurate setting to achieve maximum energy savings.

更简便

MORE CONVENIENT

智能化的HMI人机交互界面，操作简洁方便，状态一目了然
Intelligent HMI human-computer interaction interface, the operation is very simple and convenient, and the state is clear at a glance.



最新开发的HMI人机界面，直观便捷。
可直接在显示屏上实现节能模式，远程操作的转换。而且，万一发生故障，显示屏上将显示故障之内容，可以迅速地排除故障。

In the newly developed HMI man-machine interface, it is very intuitive and convenient, which can directly realize the conversion of energy-saving mode and remote operation on the display screen. Moreover, in case of failure, the content of the failure will be displayed on the display, which can quickly troubleshoot the problem.

艾玛独有的闭环矢量控制和PID控制，既实现了快速响应，又保证了安全可靠。
BPM Series 机的可变速控制及压缩机的系统控制，都是艾玛压缩机自行开发的技术。精确至0.01MPa的恒压控制系统，在实现高度应答的同时，又可发挥超群的负载追随性和安全性。

AirHorse's unique closed-loop vector control and PID control not only realize fast response, but also ensure safety and reliability. The variable speed control of BPM Series compressor and the system control of compressor are all technologies developed By AirHorse Compressor. The constant pressure control system accurate to 0.01MPa not only achieves a high response, but also play a superior load tracking and safety.

轻触屏幕即可实现压力控制方式的设定及变更，在显示屏上可以简单的进行节电的压力控制模式变更。
The pressure control mode can be set and changed by touching the screen. Saving electricity pressure control mode can be easily changed on the display screen.

可利用定时运行功能，交替运行等功能实现节能，节省人工。

You can use the functions of timing operation, alternate operation, etc. to save energy and save labor.

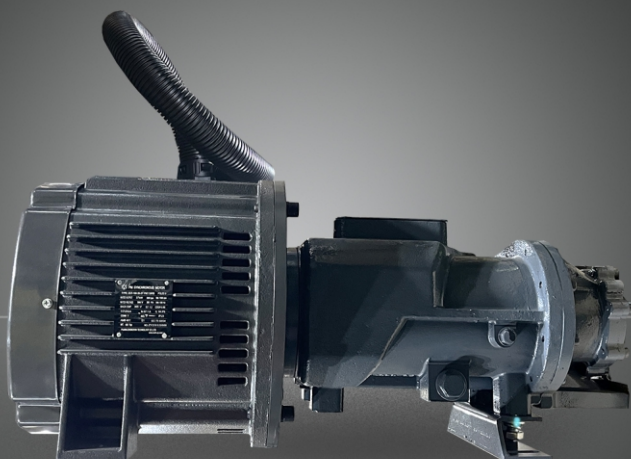
可在显示屏上确认压缩机的运行状态以及各种设定。

The status of the compressor and various settings can be confirmed on the display screen.



永磁一体电机

PERMANENT MAGNET INTEGRATED MOTOR



- 1** 高效永磁电机与螺杆阳转子采用直驱同轴一体传动结构，传动率100%。无齿轮箱、无联轴器，无传动效率损失。

 - The high-efficiency permanent magnet motor and the screw male rotor adopt a direct driven coaxial integrated transmission structure, and its transmission rate up to 100%. No gearbox, no coupling, no loss of transmission efficiency.
- 2** 永磁电机采用钕铁硼磁性材料。使用寿命超过十五年。电机定子线圈采用聚酰亚胺漆包线，H级绝缘，性能优良，允许温升可达180°C以上。变频启动：无冲击电流，降低电力线路电压波动，减少对电网设备的冲击，延长电机使用寿命。

 - The permanent magnet motor is made of NdFeB magnetic material, which will never demagnetize.
 - It has a service life of over 15 years.
 - The stator coil of the motor is made of polyimide enamelled wire and H grade insulation. Its excellent performance allows the temperature rise to more than 180°C.
 - Frequency conversion start: no impulse current, reduce the voltage fluctuation of power line, reduce the impact on the power grid equipment, and prolong the service life of the motor.
- 3** 采用业内最先进的5:6齿转子型线，泄漏少，排量。转速低，噪音小。

 - Adopt the most advanced 5:6 tooth rotor profile in the industry, with less leakage and large displacement. Low speed, low noise.
- 4** 装备了高效永磁电机，节能性能卓越。在低频低速时，仍能保持很高的电机效率。电机体积小，一般约为普通电机体积的1/3。

 - Very high IPM motor efficiency IE3.
 - Low-frequency, low-speed, high motor efficiency.
 - Compact: Small size of the IPM motor.
- 5** 特殊密封结构设计，100%防止润滑油渗漏，无漏油烦恼。

 - Specially seal structure designed, 100% to prevent oil le. No trouble for the oil leakage.
- 6** IC411电机独立风冷冷却方式，无需依赖于压缩机冷却系统。运行更加稳定。可提供IP23防护等级和IP54防护等级产品。

 - The IC411 motor is an independent air cooling method, no need to rely on the cooling system of the compressor.
 - More stable operation. IP23 & IP 54.

节能效果对比分析 COMPARISON OF ENERGY-SAVING EFFECTS

购买空压机时，传统意义上的成本（即购买成本+保养成本），其比例只占到总成本的25%，而能源消耗却占到了75%。
When buying an air compressor, the traditional cost (ie, purchase cost + maintenance cost) accounts for only 25% of the total cost, while energy consumption accounts for 75%.

普通(变频)空压机比普通(工频)空压机 节能10-20%
STANDARD VSD SCREW AIR COMPRESSOR SAVES 10-20%
ENERGY THAN FIXED SPEED SCREW AIR COMPRESSOR

艾玛永磁变频空压机比普通(工频)空压机 节能33-35%
AIRHORSE PM VSD SCREW AIR COMPRESSOR SAVES 33-35%
ENERGY THAN FIXED SPEED SCREW AIR COMPRESSOR

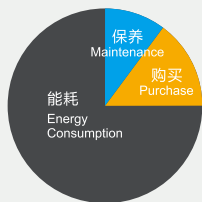
举例

FOR EXAMPLE

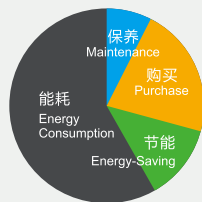
1. 一台75KW的普通空压机，一年运行8000小时，电费0.62元/度，一年的电费为：**75KW*8000小时*0.62/KW.h=37.2万元**
2. 艾玛永磁变频75KW的空压机，一年可节约大约35%的能源
共计:37.2万元*35%=13.02万元
3. 投资回报率(ROI)：**约1年**



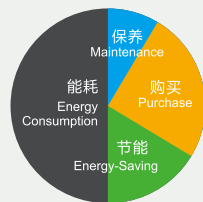
1. A 75KW standard screw air compressor runs for 8000 hours a year, with an electricity fee of ¥ 0.62/kWh, and the electricity charge for one year is: **75KW*8000 hours*0.62/KW.h=¥ 372,000**
2. AirHorse 75KW PM VSD Screw Air Compressor, saving about 35% of energy a year **A Total of: 372,000*35%=¥ 130,200**
3. Return on Investment (ROI) : **About 1 Year**



普通(工频)空压机
Fixed Speed
Screw Air Compressor



普通(变频)空压机
Standard VSD
Screw Air Compressor



艾玛永磁变频
AIRHORSE PM VSD
Screw Air Compressor

- 能耗
Energy Consumption
- 保养
Maintenance
- 购买
Purchase
- 节能
Energy-Saving



空压机的维护保养

MAINTENANCE OF AIR COMPRESSOR

我们为客户的设备维护提供有选择的维护保养服务，内容为您的设备度身定做，可选择单次的定价保养，也可以选择长期零件供应或预防性保养合约，通过以上合约，您可享受超值的服务和保障。以及有竞争性价格的部件检修和更新。我们同时提供节约能源方案，如能量回收，变频改造，节能优化系统等，可大大降低您的生产成本。

We provide selective maintenance services for customer's equipment maintenance. The content is customized for your equipment. You can choose a single price maintenance or choose long-term parts supply or preventive maintenance contract, through the above contract, you can enjoy valued service and guarantee and overhauled and updated part sat competitive price. We also provide energy saving solution, such as energy recovery, frequency conversion, and energy-saving optimization systems, can greatly reduce your production cost.



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.

永磁变频螺杆机 - 技术参数

TECHNICAL PARAMETER OF PM VSD SCREW AIR COMPRESSOR

型号 Model	排气压力 Working Pressure (Mpa)	排气量 Air Flow (m ³ /min)	电机功率 Motor Power (KW)	外形尺寸 / Size L×W×H (mm)	出口管径 Outlet Diameter (DN)	重量 Weight (kg)
BPM-4A-S	0.8	0.4	3	740×590×775	3/4"	95
	1.0	0.25				
BPM-5A-S	0.8	0.5	4	740×590×775	3/4"	100
	1.0	0.4				
BPM-7A-S	0.8	0.7	5.5	740×650×800	1/2"	108
	1.0	0.5				
BPM-10A-S	0.8	1.1	7.5	740×650×800	1/2"	175
	1.0	0.9				
BPM-15A-S	0.8	1.6	11	850×720×1070	3/4"	250
	1.0	1.4				
BPM-20A-S	0.8	2.3	15	850×720×1070	3/4"	260
	1.0	2.0				
BPM-30A-S	0.8	3.8	22	1150×780×1095	1"	365
	1.0	3.6				
BPM-40A-S	0.8	5.2	30	1150×780×1095	1"	400
	1.0	4.8				
BPM-50A-S	0.8	6.5	37	1300×900×1220	1 1/2"	535
	1.0	5.7				
BPM-60A-S	0.8	7.5	45	1300×900×1220	1 1/2"	570
	1.0	6.8				
BPM-75A-S	0.8	10.5	55	1700×1100×1520	2"	895
	1.0	8.9				
BPM-100A-S	0.8	13.5	75	1700×1100×1520	2"	950
	1.0	11.5				

AirHorse 艾玛

广州艾玛压缩机有限公司

办公室: 广州市黄埔区新阳西路38号生生广场4栋1503-1505室

工厂: 广州市增城区中新镇迳贝路8号

电话: 86-20-38090459 \ 32376170 传真: 86-20-38090400 \ 32376096

GUANGZHOU AIRHORSE COMPRESSOR CO.,LTD

OFFICE ADDRESS: Room 1503-1505, Building 4, Shengsheng Plaza, No. 38 Xinyang West Road, Huangpu District, Guangzhou

FACTORY ADDRESS: No.8, Jingbei Road, Zhongxin Town, Zengcheng District, Guangzhou China

TEL: 86-20-38090459 \ 32376170 FAX: 86-20-38090400 \ 32376096

▶ 微信



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☎ 销售热线 / WHATSAPP
Sales Hotline

+86 137 2522 4016

☎ 售后热线
After-Sales Hotline

+86 181 4486 2868

🌐 www.ahaircompressor.com

✉ export@ahaircompressor.com

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*温馨提示: 本公司产品标准适用于海拔1000米以下地区。若使用环境海拔超过1000米, 欢迎来电咨询, 进行定制化配置, 以确保设备性能与运行安全。

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