

**JAGUAR®**

## Technology Leader of PM Screw Compressor

Top of the "Energy-efficiency Star" Ranking by MIIT for Four Consecutive Years

**JAGUAR®**



Since 1991  
Stock Code 301028.SZ

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# JAGUAR PM VSD Oil-free Water Lubricated Screw Air Compressor

## ZW10~50

XIAMEN EAST ASIA MACHINERY INDUSTRIAL CO.,LTD.





## About As

Xiamen East Asia Machinery industrial Co., Ltd (EAMI) is a comprehensive compressed air system solution manufacturer listed in Shenzhen Stock Exchange (stock code:301028). EAMI is a large scale enterprise which can design, research and produce positive-displacement compressor and it is one of the few companies that masters the core technology of screw air compressor. EAMI's brand "JAGUAR" occupies a leading position in the field of permanent magnet screw air compressor throughout the year. "JAGUAR" brand ranked the top of the "Energy Efficiency Star" evaluated by Ministry of industry and information technology of China for four consecutive years, 2018, 2019, 2020 and 2021.

Since its establishment in 1991, EAMI has always keeping efforts on technology development and innovation, and continues to increase the investment and research in the air compressor related fields. EAMI has more than 70 patents, more than 80 kinds of screw rotor profile and formed core technology advantage in energy saving, environmental protection and other aspects of the screw air compressor. "JAGUAR" whole series of permanent screw machines exceed the grade one of national level of energy efficiency and mostly, maintain the world's leading level of energy efficiency in two stage compression series. With strong research and development capability, well-qualified professional team, advanced testing equipment and scientific management system, more than 800 JAGUAR distribution and service teams, EAMI provides not only excellent complete set of compressed air system solution but also full range of professional and attentive service to all customers in the world.



## High Precision Equipment for Manufacturing High Precision Screw Rotors

EAMI uses professional high-precision manufacturing equipment, to ensure high standard design requirements. The screw rotor is grinded with high precision, and the machining precision reaches 0.005mm. The surface roughness reaches Ra0.1-0.2um.

## High Precision Machining, Excellent Unit Design

The excellent performance of Jaguar screw air compressor originated from the integration of high precision manufacturing technology, computer aided design and measuring system. The material of the rotor is made of ductile iron with high strength, high hardness, wear resistance and better ductility, so as to ensure the good quality of the rotor. With high precision CBN Grinding machine, and using advanced three-dimensional CMM measuring center, to ensure that the rotor meets the design precision requirements. The air-end is made by high precision imported CNC horizontal machining center. It is equipped with high-precision tools imported from Europe to ensure the machining accuracy of the air-end. High precision rotor with high efficiency bearing, tight rotor clearance, creating large air usage, high stable and long service life. All of this create high reliable screw air compressor.



ISO9001:2015    ISO14001:2015    ISO45001:2018



Imported Holroyd CNC Grinding Machine

Imported DMG MORI CNC Horizontal Machining Center

Imported German Zeiss CMM Measuring Center

Imported Italian Salvagnini Dynamic Laser Cutting Machine



## JAGUAR PM VSD Oil-free Water Lubricated Screw Air Compressor

JAGUAR permanent magnet variable frequency oil-free water lubrication screw air compressor, completely independently developed, designed and manufactured, using water instead of traditional lubricating oil to lubricate, cool, seal and reduce noise on the main air-end and bearings. No oil is involved in the compression process, and the compressed air quality reaches CLASS 0. The consistently high outlet quality is an excellent choice for oil-free compressed air. The compression process is closer to isothermal compression, which truly achieves high efficiency, environmental protection and energy saving.

### Clean, oil-free, low-carbon and environmentally friendly

Water instead of oil is injected into the compressor chamber of the main air-end, no oil is involved in the compression process, the compressed air quality is up to CLASS 0, and the risk of oil pollution is eliminated.

### Isothermal compression, higher efficiency

The high specific heat capacity of water ensures that the compression process is close to ideal isothermal compression, and ultra-low temperature rise results in ultra-high energy efficiency, greater exhaust volume and lower energy consumption.

### Intelligent drive, reliable operation

JAGUAR 2.0 intelligent control system drive for the compressor stable air supply escort.



## JAGUAR PM VSD Oil-free Water Lubricated Product Advantages



### Water-lubricated bearing

Semi-permanent life water suspension bearing with water as lubricant, the operation process is completely oil-free and completely contact-free; Stainless steel ensures strength and durability, prevents corrosion, lasts longer and requires no maintenance.

### Completely oil-free, energy saving and environmental protection

Water instead of oil injection into the compression chamber has the role of cooling, sealing, lubrication, noise reduction. No oil participate, environmental protection and energy saving.

### Stainless steel main air-end

JAGUAR patented screw rotors formed by stainless steel, are technologically advanced, superior in performance and reliable in quality. Water jet lubrication ensures that the compression process is completely oil-free, the compressed air quality is higher, clean and oil-free. The compression process is close to isothermal compression, with high efficiency and less energy consumption.

### Less maintenance costs

For maintenance only need to replace the water filter and the air filter, simple and easy to operate, low maintenance cost. Can realize the function of automatic replacement of water, one-button control, safe and reliable.

### IE4 high efficiency motor IE4

The efficiency of the motor is increased by 5%~10% than that of the ordinary motor. And permanent magnet motor is with compact structure and stable operation compared with conventional asynchronous motor.

### Intelligent drive, easy to operate

JAGUAR 2.0 intelligent control system, with automatic fault detection, maintenance reminder and automatic protection functions, easy to operate.



# JAGUAR oil-free water lubrication core technology

## JAGUAR patented line

JAGUAR patented water-lubricated rotor profile with greater displacement, less noise and better energy consumption.



## Independent research, development, reliable and durable

The main air-end and the whole machine system of water lubrication are developed and manufactured by JAGUAR, and have undergone rigorous tests to achieve reliable performance and better quality.

## Isothermal compression, ultra-high energy efficiency

The compression process is close to isothermal compression, with lower energy consumption and higher energy efficiency.

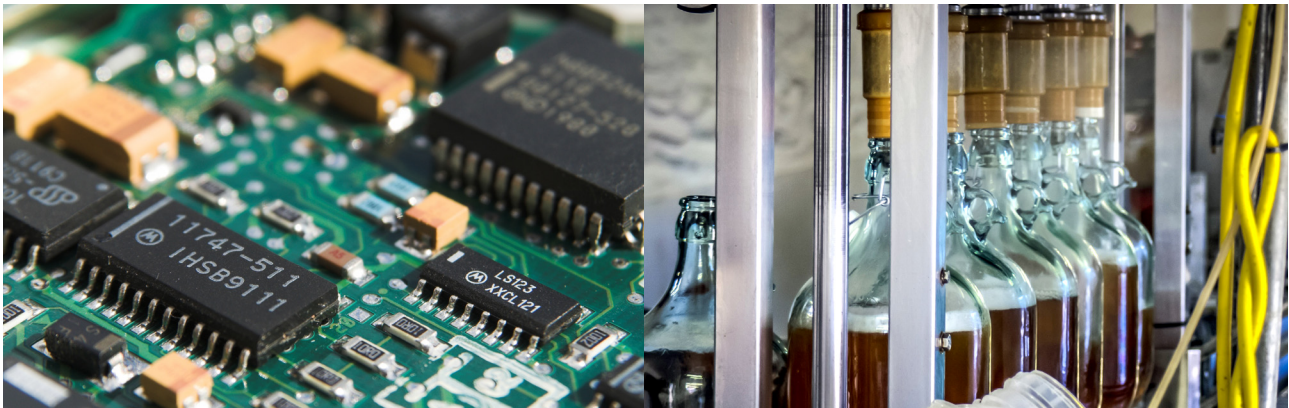


## Intelligent frequency conversion, high efficiency and energy saving

Intelligent frequency conversion technology can be adjusted according to air production, making the system more stable and energy efficient.

## Application field

JAGUAR oil-free water-lubricated screw air compressor is mainly used in food and beverage, pharmaceutical, cigarette, rubber and plastic products, cosmetics, medical hospitals, biological fermentation, electronics, dentistry, water treatment and other industries.



## Technical Data Sheet

| Model | Discharging Pressure (Mpa) | Discharging Volume (m³/min) | Power (kW) | Noise (dB) | Air Outlet Diameter (inch) | Weight (kg) | Overall Dimensions ( L×W×Hmm ) |
|-------|----------------------------|-----------------------------|------------|------------|----------------------------|-------------|--------------------------------|
| ZW10  | 0.8                        | 1.1                         | 7.5        | ≤70        | DN25                       | 600         | 1250x1000x1250                 |
| ZW15  | 0.8                        | 1.6                         | 11         | ≤70        | DN25                       | 700         | 1590x1098x1350                 |
| ZW20  | 0.8                        | 2.2                         | 15         | ≤70        | DN25                       | 750         | 1598x1098x1350                 |
| ZW30  | 0.8                        | 3.2                         | 22         | ≤70        | DN25                       | 850         | 1698x1348x1400                 |
| ZW50  | 0.8                        | 5.4                         | 37         | ≤70        | DN40                       | 950         | 2298x1398x1600                 |