

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

JAGUAR Permanent magnet screw vacuum pump

VC-05~100HP

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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 ACCURA CMM Measuring Center

Imported Italian Salvagnini Dynamic Laser Cutting Machine

JAGUAR Permanent magnet screw vacuum pump

VC 05~100HP

01

Permanent magnet frequency conversion saves power and energy

02

High stable vacuum

03

Large flow design, pumping fast

40%

40% less power consumption than traditional water ring vacuum pump



JAGUAR Permanent magnet screw vacuum pump

Jaguar permanent magnet screw vacuum pump VC series is a new generation of intelligent screw vacuum pump, using IP65 eight-stage permanent magnet motor coaxial drive, with ultra-low noise. The air-end has been selected after long time simulation tests and type tests, and the technical content has reached the leading level in the industry. With large flow design, the pumping speed is faster. The ultimate pressure is 0.35 mbar (A), and the vacuum capacity is adapted to the continuous and stable production demand. The liquid-cooled system of innovative design cools the permanent magnet motor via coolant to ensure that the permanent magnet motor does not lose magnetism, saving 40% of electricity as compared with the traditional water ring vacuum pump. The plug-and-play design principle can provide better performance to meet your running pressure requirements.

High efficiency permanent magnet synchronous motor

For the JAGUAR VC series with IE4 PM Inverter ultra-high efficiency motor, the electromagnetic scheme of motor is greatly optimized, the motor efficiency is greatly improved by 5-10%, and the user cost is significantly reduced.



Jaguar VC series with IE4 permanent magnet motor

Cooperative manufacturer

Jaguar permanent magnet screw air compressor has now been widely adopted by photovoltaic, automotive, and other new energy enterprises, as well as semiconductor, electronics, textile, steel, communications, home appliances, daily chemical and other industries.



High efficiency, energy saving, fast return

Replacing the outdated equipment with Jaguar VC series results in a 40% energy savings compared to traditional water ring vacuum pumps, thanks to its permanent magnet frequency intelligent operation and high efficiency. Additionally, utilizing an efficient oil and gas separator improves the working environment by producing highly clear discharge gas without any waste oil wastewater discharge, thus protecting the environment.

Easy to install and operate

Space-efficient: The Jaguar VC series features a compact structure, occupying minimal space and eliminating the need for placement equipment; User-friendly operation: Simply connect the power supply and pipeline to ensure safety and achieve plug-and-play functionality; Intelligent functionality: Equipped with an intelligent touch screen, the system allows for seamless human-machine interaction, facilitating easy comprehension of operations.

Application industry

Jaguar permanent magnet variable frequency screw vacuum pump series products find extensive applications in various industries, including vacuum smelting, electronic vacuum systems, vacuum clamping operations, vacuum thermoforming processes, vacuum adsorption techniques, chemical and medical manufacturing processes requiring a high level of vacuum control, as well as the production of specialized vacuum containers.



Technical parameter

Model	Power (kW)	Pumping speed (m³/h)	Limiting vacuum (Pa)	Weight (kg)	Air inlet/outlet (DN)
VC-05	4	240	≤35	530	DN65/DN50
VC-07	5.5	468	≤35	550	DN80/DN65
VC-10	7.5	588	≤35	685	DN80/DN65
VC-15	11	780	≤35	875	DN80/DN65
VC-20	15	876	≤35	1120	DN80/DN65
VC-30	22	1320	≤35	1500	DN150/DN100
VC-40	30	1620	≤35	1700	DN150/DN100
VC-50	37	1812	≤35	2135	DN150/DN100
VC-60	45	2820	≤35	3100	DN200/DN150
VC-75	55	3300	≤35	4200	DN200/DN150
VC-100	75	4440	≤35	6000	DN200/DN150