



## OIL FREE SCREW BLOWER



## **1. COMPANY PROFILE**

GHS Vina Co., Ltd is a design and manufacturing company of screw oil-free blowers and micro-oil screw air compressors for aerodynamic applications. The company is mainly composed of engineers and technicians who have been engaged in the research and development of screw air compressor products for many years. After several years of market expansion and product development, the company has determined the market positioning of the company's products and the development direction of a series of products. At the same time, the high-efficiency energy-saving screw air compressor is the basic product on which the company depends for survival and development. Oil-free screw blowers and medium pressure micro oil screw air compressors are listed as the company's key products for long-term sustainable development.

GHS Vina Co., Ltd products include oil-free screw blower, laser cutting screw air compressor, permanent magnet variable frequency screw air compressor, two-stage compression screw air compressor, low pressure permanent magnet variable frequency screw air compressor, medium pressure screw air compressor and other 6 series, Nearly 80 kinds of specifications. The company always puts independent innovation and technology research and development first, focuses on the cultivation and update of core technologies, and adheres to the path of technological innovation and professional division of labor. The theoretical basis and level of technology research and development have been continuously improved to meet the higher demand of customers for compressed air. And with excellent pre-sales and after-sales service, to win the favor of more customers. Considerate, efficient and energy-saving is the focus of Volberg brand sales services. At present, the company has more than 200 service outlets in major cities across the country, and has strictly trained air compressor maintenance personnel, which can quickly provide you with high-quality professional air compressor services to ensure your rights and interests.

The company has passed ISO9001 quality management system, product quality and safety certification. Introduced and implemented management methods



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and technologies such as "ERP management system", and obtained national industrial product production licenses.

**GHS VINA—Your Excellent Compressed Air System  
Solution Partner!**

## 2. Product performance and structural characteristics

**GHB SERIOUS OIL FREESCREW BLOWER** is an oil-free low-pressure screw blower developed by our company with reference to advanced technology at home and abroad, using our company's completely independent intellectual property rights BS type line. The whole unit is mainly composed of energy-saving screw blower, permanent magnet variable frequency motor, coupling, lubrication system, overall frame, sound insulation cover, muffler system, control system and primary instrument.

This series of blowers are mainly designed for sewage treatment, cement, power, textile, pneumatic conveying and other industries. This new structure and design concept is mainly characterized by high efficiency, energy saving, low noise, gas transmission without oil, good tightness, long continuous operation cycle, convenient installation and maintenance. Compared with the traditional Roots fan, it can save more than 15-25% on average.

### Energy-saving screw blower air end

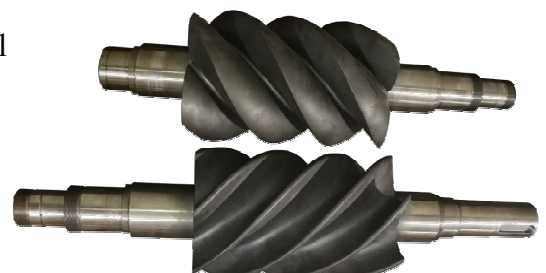
BS patented design and assembly, with top-level imported bearings, innovative bearing arrangements and the use of fixed radial bearings and thrust bearings, compared to standard arrangements to increase service life. The bearing load time is shortened in the same proportion, thereby maximizing the life of the air end,

and the bearing adapts to changing loads, providing high flexibility and efficiency.



### Screw rotor

Screw air end with completely independent intellectual property rights, using the current international



The most advanced screw processing technology, Only three KAPP120 in the world, Rotor grinding machine with high accuracy, reliable performance and low energy consumption. The BSC compression air end rotor profile uses a unique asymmetric profile, with a large rotor diameter and inter-tooth volume, a contact line with a seal, and a minimum leakage triangle. Minimize internal leakage, especially suitable for large flow and long-time operation. It has the characteristics of high efficiency, high reliability, low speed and low noise.

### **Transmission gear**

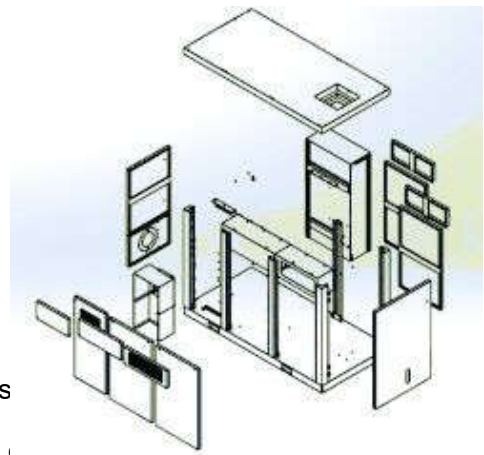
Yin-yang rotor adopts five-level precision hard tooth surface, parallel shaft high speed gear pair, mechanical efficiency more than 98%.The gear is made of forged alloy steel, which is surface hardened and precision ground. The service factor of the gear is at least 1.8. The tooth surface is helical, and the axial force generated by the gear pair is opposite to that of the gas thrust, which balances the axial force of the part. High strength, high precision, no pairing, low transmission loss, low noise, small vibration and long service life.

### **Sound insulation system**

The cover of the whole unit is made of sheet metal and has been treated for noise reduction.

The cover panel is attached with high-density sound-absorbing materials to make the machine's noise green and environmental protection, the machine's

decibels. Because the door panel on the cover can be opened very easily, showing a full range of 270 °, maintenance personnel can therefore easily maintain and maintain the interior of the unit.



### **Lubrication system**

The oil-free screw has a separate design of a



forced circulation lubrication cooling system, which is more reliable.

The oil circuit system is equipped with a main oil pump, oil filter, lubricating oil cooler, ventilation device, various valves, oil pressure detection, oil temperature detection, oil level detection, etc. The gear pump sends lubricating oil to the main engine. The main engine is designed with an oil inlet. The main engine is provided with a lubricating oil bypass channel to deliver the lubricating oil to the gears and bearings. The entire lubricating oil path is free of copper, and the service life of the lubricating oil is  $\geq 16000\text{h}$ .

### **Operation control system**

The energy-saving screw blower is equipped with a mature system operation control system, which is mainly composed of station monitoring instruments, signal control modules, inverters, touch screens, low-voltage electrical components, etc. All components are integrated in the entire chassis. The overall layout is scientific and beautiful. The airend computer uses the touch screen as a man-machine interface to realize man-machine dialogue. The Chinese operation and display system is simple and intuitive. Fully computerized automatic control, providing all-round blower maintenance information, realizing maintenance prompts, printing pressure curve, providing dynamic distribution of air compression usage, historical alarm, and convenient analysis of actual parameters of the compression system. And provide monitoring signals to the airend computer. No special guard is needed, reducing labor costs and improving operating efficiency.

### **3. OUR ADVANTAGES :**

- (1) BSC AIREND (GERMAN TECHNOLOGY)
- (2) WARRANTY : THE WHOLE COMPRESSOR 1YEAR, THE AIREND 2 YEAR

- (3) COST-EFFECTIVE
- (4) CHEAP SPARE PARTS AND SUFFICIENT SPARE PARTS

#### **4. Pre-sales and after-sales commitment**

Under the premise of normal operation requirements, if the equipment fails during the warranty period, Party B is responsible for free repair and replacement of related damaged parts.

Provide Party A with long-term preferential equipment spare parts.

Party B has established a special after-sales service department in the company, which can solve the problems of the equipment purchased by users in time.

The warranty period is 18 months after the goods arrive at the site, or 12 months for the unit to operate, whichever comes first.