OPPAIR

OPPAIR
ACCESSORIES
ADVANTAGES

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SHANDONG OPPAIR MACHINERY MANUFACTURING CO.,LTD

WELDING, BENDING, AND GRINDING OF SHEET METAL

Our air compressor fuselage adopts high standard sheet metal process, which has a strong structure, beautiful appearance and strong durability. The following are some of the production details:

PRECISION BENDING

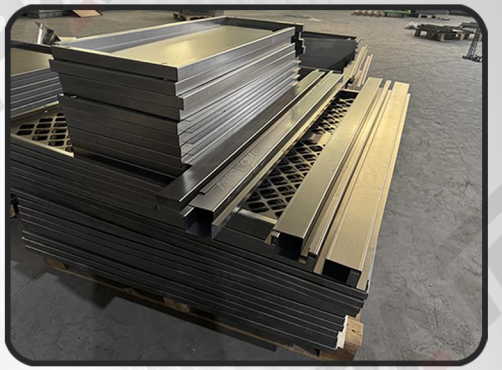
China's top CNC bending equipment is used to ensure the accurate size of sheet metal parts, and the whole machine is assembled seamlessly.

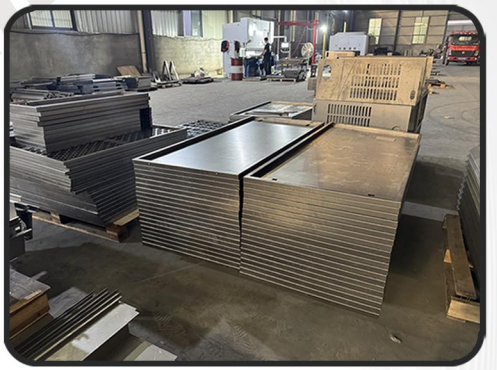
HIGH-QUALITY WELDING

The welding process strictly implements the process specifications, the weld is full and smooth, and it is not easy to crack after long-term use.

FINE GRINDING

The surface has been polished by multiple channels, which is smooth and smooth, and the texture and anti-corrosion performance of the whole machine are improved.





SPRAYING

HIGH-QUALITY SPRAYING PROCESS,GIVES SHEET METAL AN ELEGANT LOOK AND LONG-LASTING PROTECTION.

- The color is uniform and the surface is smooth
- Strong corrosion resistance, improve service life
- Environmentally friendly technology, green production

FUEL GAUGE

- Full metal shell, sturdy and durable
- High withstand voltage design, long-term stable operation
- High-definition dial, accurate and clear reading
- Earthquake-resistant and crack-proof, adaptable to various industrial environments

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PRECISION FILTER

PRECISION FILTERS

HIGH EFFICIENCY FILTRATION:

Effectively remove oil mist, moisture and solid particles in compressed air, the filtration accuracy can reach 0.01μm, and the residual oil amount is as low as 0.01ppm.

LARGE FLUX DESIGN:

Low pressure difference and high flow design to ensure the overall efficiency of the air compressor system.

INTERNAL FILTER STRUCTURE

MULTI-LAYER COMPOSITE FILTER MATERIAL:

Imported ultra-fine glass fiber support layer, drainage layer and protective net composite structure are adopted, with large filtration area, high dirt holding capacity and long service life.

LIGHT WEIGHT, HIGH STRENGTH, CORROSION RESISTANCE, HIGH TEMPERATURE RESISTANCE

FILTER ELEMENT DESIGN:

The internal and external support mesh enhances the strength of the filter element, prevents collapse and deformation, and ensures long-term stable filtration performance.

OIL SEPARATOR

MULTI-LAYER COMPOSITE FILTER MATERIAL:

Folded and wound, using ultra-fine glass fiber filter layer, coarse fiber support layer, oil drain layer, metal skeleton, multi-layer structure to effectively separate oil mist and compressed air.

HIGH DIRT HOLDING CAPACITY:

The filter media design is optimized, with large flux, high dirt holding capacity, and extended replacement cycle.

METAL SUPPORT SKELETON:

Internal and external metal mesh skeleton, high pressure resistance, high temperature resistance, prevent the deformation and collapse of the filter element, and ensure long-term stable performance.

DETAIL:

AIR END

HANBELL FEATURES

- Exclusively developed 5:6 asymmetrical screw rotor linear type, high compression efficiency.

  Excellent volumetric efficiency, about 5-10% higher than the traditional linear type, effectively reducing the specific power.
- Scientific design of spindle, gear and bearing to ensure that the main engine does not deform during long-term full-load operation.
- High-precision processing equipment manufacturing, with strict dynamic balance testing, stable operation, low noise, low vibration.
- The main rotor is made of high-quality alloy steel (such as SCM440) with advanced surface treatment technology
- The bearings are made of SKF, FAG and other international brands to ensure wear resistance and high temperature performance.

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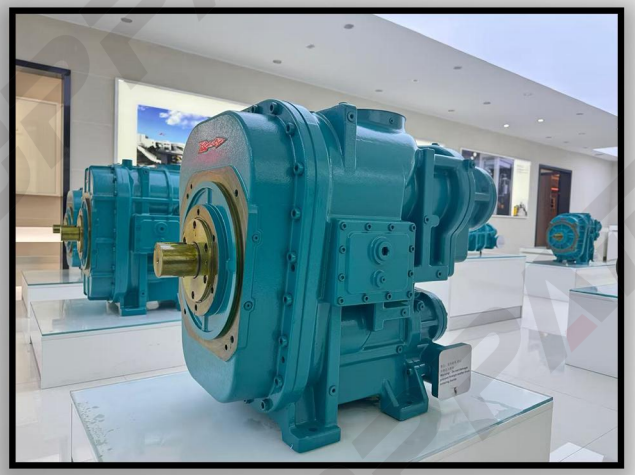
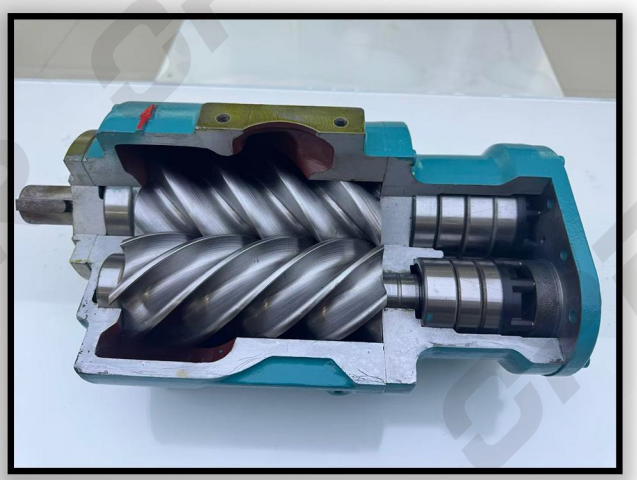
AIR END

FEATURES

- Optimized screw linear design, high rotor precision.
- High volumetric efficiency, low specific power, energy saving of 5%-10% in the same power segment.

  Stable operation, low vibration and low noise, improve the comfort of the whole machine.
- The bearings are made of SKF/NSK and other international well-known brands, which are resistant to high temperature and fatigue, and support long-term full-load operation.
- The durability of the whole machine is excellent, and the design life of the main machine can usually reach 20 years.





MOTOR

FEATURES OF IP65 IE5 MOTORS

Dustproof grade IP65:
Completely dustproof and waterproof, dust cannot enter the inside of the motor, ensuring that the internal parts are clean for a long time. It can prevent low-pressure water spray from any direction, and can be applied in humid, dusty, and light water spray environments, and is suitable for harsh working conditions.

High reliability:
The motor housing is designed to strengthen the seal, which can resist the erosion of oil mist, water vapor and dust on the motor in long-term use.

Ultra-high energy efficiency (the highest international motor energy efficiency class, IE5 in the current IEC standard is Ultra Premium Efficiency motor):
The motor efficiency is usually ≥ 96%, which is more than 5%-10% more energy-saving than IE3 and IE4 motors.

Low heat generation, long life:
High efficiency, low heat generation, reduce insulation aging, and extend the service life of the motor.

MOTOR

• *FEATURES OF IP55 IE4 MOTORS*

Dustproof grade IP55:

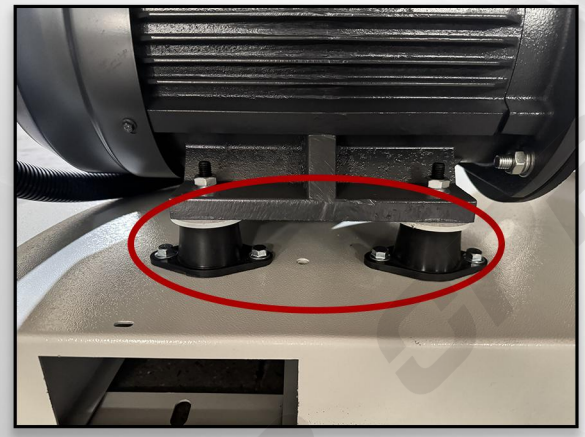
Basic dustproof, which can prevent sufficient dust from entering and affecting normal operation;

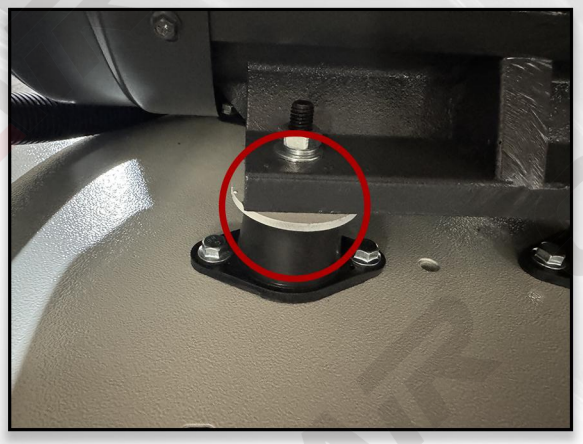
Keep the interior clean. It can withstand low-pressure water spray from the nozzle in any direction, preventing condensation and occasional liquid splashing into the motor.

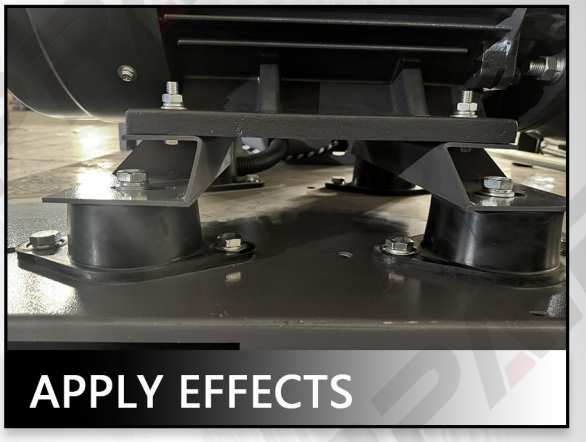
Super Premium Efficiency, the motor efficiency is about 94%-96%, which is 3%-5% energy saving compared with IE3.

Greatly reduce energy consumption, especially suitable for long-term operation equipment (such as air compressors), which can significantly reduce the electricity cost of enterprises.

MOTOR SHOCK ABSORBING PADS







EACH MACHINE IS EQUIPPED WITH 6 SHOCK ABSORBING PADS.

Pure rubber material: no doping recycled material, strong elasticity, not easy to age, long-term non-deformation;

Good shock absorption effect:

Greatly reduce the vibration and noise generated during the operation of the motor, and protect the equipment structure;

STRONG LOAD-BEARING CAPACITY:

Suitable for all kinds of power section motors, no collapse or offset after long-term use;

HIGH DURABILITY:

Oil-resistant, waterproof, high-temperature resistant, suitable for various industrial environments;

OIL RETURN CHECK VALVE

Pure copper material:

High-strength copper is selected, which has good corrosion resistance and sealing performance, and is not easy to deform and leak after long-term use.

Strong and durable:

Fine technology, high temperature resistance, high pressure resistance, suitable for long-term continuous work of air compressor system.

Stable operation:

Effectively prevent oil and gas backflow, ensure the normal operation of the oil and gas separation system, and improve the reliability of the whole machine.

Easy to install: standard interface, strong adaptability, easier maintenance.

RADIATOR

We use thickened high-efficiency radiators and large-area aluminum fin structures to improve heat exchange efficiency and ensure the continuous and stable operation of the air compressor in high temperature environments.

FEATURES:

Thickened structure: increase the wall thickness of the radiator, higher strength, stronger pressure resistance, and not easy to damage.

Enlarge the heat dissipation area: optimize the fin arrangement, increase the heat exchange area, and improve the heat dissipation efficiency.

Rapid cooling: It can quickly take away the heat generated during the operation of the compressor, and effectively prevent high-temperature shutdown.

Anti-corrosion coating optional: suitable for harsh environments such as high humidity and high dust.

PRESSURE SENSORS

We use high-precision pressure sensors with built-in imported chips, which are sensitive in response and precise in control, and are suitable for the long-term stable operation of industrial-grade air compressor systems.

Features:

Imported core chip:

Accurate measurement, fast response, almost no error, to ensure more stable pressure control.

Seismic design:

The internal structure is optimized, the mechanical vibration resistance is strong, and it is suitable for long-term operation conditions.

Long life:

Electronic components have long life, strong anti-interference, and low failure rate.

High-reliability packaging:

waterproof and dustproof, suitable for various complex environments.

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AC CONTACTORS

We choose Schneider or Siemens AC contactors as one of the core components of the air compressor electrical control system, which has the advantages of high stability, long life, and global after-sales service.

Features:

6International first-line brands: Schneider / Siemens, a globally recognized high-quality electrical brand.

Stable and reliable performance: adapt to frequent start and stop, high temperature, high humidity and other working conditions, and the contacts are not easy to ablation.

Worry-free after-sales: There are perfect service and replacement channels in most countries and regions around the world.

Strong versatility: highly compatible with PLC, controller, etc., to ensure the efficiency and safety of the whole machine.

ELECTRIC WIRE

All of our electrical cables are selected in strict accordance with international standards to ensure the safe, stable and durable operation of the air compressor system.

Features:

In line with international standards (such as IEC/GB), the conductor is made of sufficient high-purity copper core, and the conductivity is excellent.

Sufficient wire diameter, thick insulation, anti-aging, suitable for high temperature and high load environment.

The whole line is equipped with grounding terminals, strictly implements grounding protection standards, and improves the safety level of the system.

The wiring is regular and reliable, which is easy to maintain and overhaul.

SCREWS AND NUTS

The screws, nuts and other fasteners used in the air compressor are all made of 8.8 grade high-strength carbon steel, which has the characteristics of high tensile strength, stable structure and strong durability to ensure the safety of the whole machine for a long time.

Features:

8.8 strength standard, strong pressure bearing capacity, not easy to slip and break,

The structure is firm, and the key parts can still be tightened and not loosened under high vibration conditions,

Corrosion-resistant treatment (such as galvanizing, blackening), suitable for a variety of environments,

Unified standard parts, easy to maintain, quick to replace.

DUSTPROOF COTTON

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EFFICIENT FILTRATION:

High filtration efficiency, which can effectively intercept dust impurities in the air and protect the air end and electronic control system.

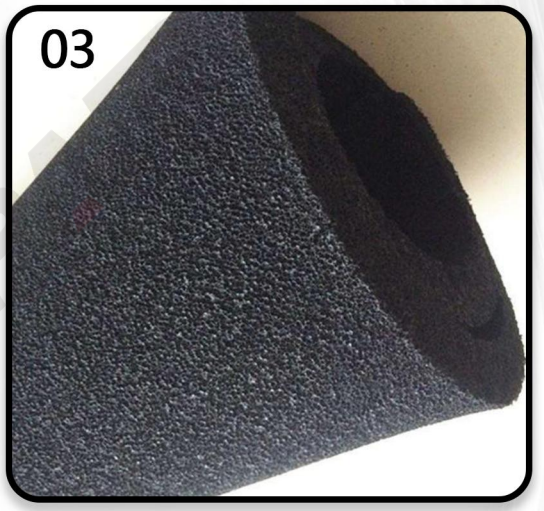
Good air permeability, does not affect the air intake, and ensures the operation efficiency of the air compressor.

DURABLE AND CLEANABLE:

The material is strong and can be cleaned and recycled many times, saving maintenance costs.

FLAME RETARDANT AND ANTI-AGING:

Suitable for high temperature working environment, not easy to deform and not to fall off.



PRESSURE GAUGE

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ONE-PIECE STRUCTURE:

More stable, effectively reduce damage and errors caused by vibration, and improve reading accuracy.

BUILT-IN SHOCKPROOF OIL:

Highly transparent shockproof fluid, no yellowing, no blistering for a long time, clear and readable.

RUGGED AND DURABLE:

Impact-resistant design, suitable for complex working conditions.

LONG LIFE:

Simple structure, good sealing, reduce failure rate, long service life for many years.

FRONT

REVERSE SIDE

METAL TUBING

- Using high-quality stainless steel / carbon steel pipeline, strong pressure resistance, corrosion resistance, to ensure the cleanliness of compressed air;
- Metal bellows are used in key parts to effectively absorb system vibration, reduce the impact of vibration on the main engine, motor, joints, valves and other components, and improve the reliability of the whole machine.

- Extend the service life of pipelines and the whole machine, and reduce the frequency of maintenance.
- Modular design, flexible installation, easy maintenance in the later stage;
- The wiring is neat, the overall beauty is generous, and the image of high-quality equipment is reflected.

CONTROLLER

- Real-time monitoring of key parameters such as pressure, temperature, current, and operating status;
- Fault self-diagnosis, automatic alarm.

  Intelligent sleep function to reduce ineffective operation.
- Large color touch screen, simple and intuitive operation interface, support multi-language switching (Chinese/English/Spanish/French/Portuguese/Russian/Arabic, etc.);

  Support remote monitoring (optional Internet of Things/cloud platform module) to realize real-time viewing of running status on mobile phones and computers.

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BLACK RUBBER HOSE

We use thickened industrial-grade vinyl hoses, which have strong pressure resistance, durability and reliability, and are widely used in the internal gas connection of air compressor systems.

Features:

Thickened pipe wall design, stronger structure, pressure resistance up to 60 kg (6MPa), suitable for high-pressure working conditions.

High temperature resistance / anti-aging: the rubber material is stable, and it will not crack or harden after long-term use.

Soft and bending-resistant, flexible installation, not easy to leak.

Adaptable to various compressor systems to ensure safe and reliable gas delivery.

OPPAIR

EXPORTED 100+ COUNTRIES
COMPLETE CERTIFICATES, WORTHY OF YOUR TRUST!