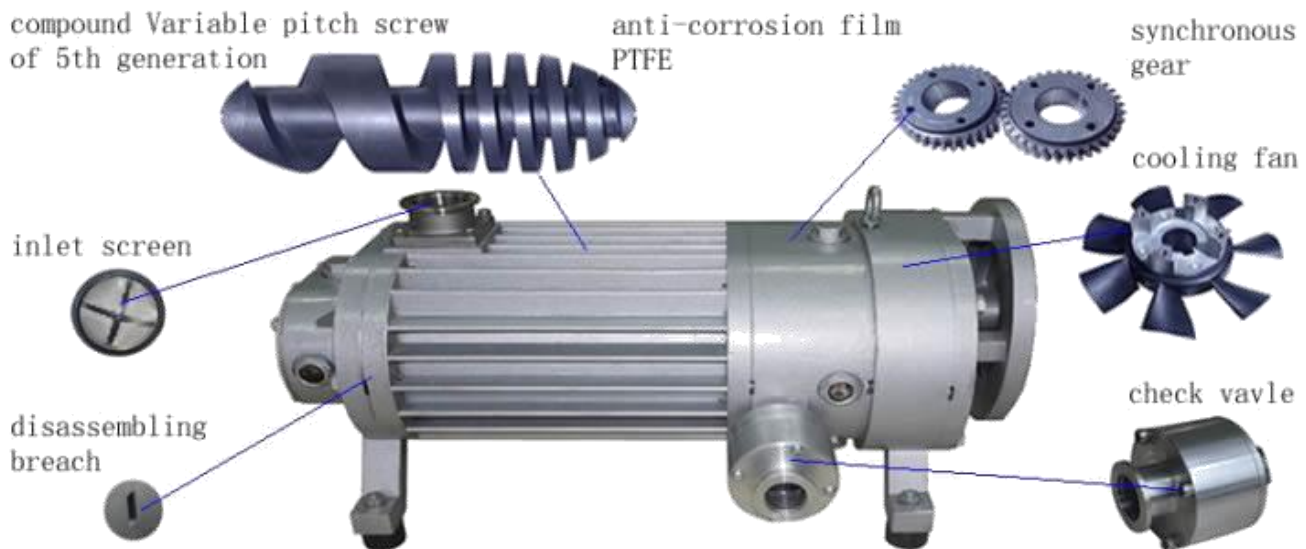


## SZS Dry Screw Vacuum Pump



SZS dry compound screw vacuum pump is innovation and development products, using of the fifth generation of compound variable pitch screw technology (30% energy saving, low exhaust temperature), with high efficiency, energy saving, environmental protection, lightweight, easy operation, reliable performance characteristics. It's a main trend of the vacuum pump.

### Applications:

Dry compound screw vacuum pump is ideal for any application where oil contamination is unacceptable and for corrosive field. Dry screw vacuum pump widely used in the fields of medical instruments, analysis instruments, biological products and pharmaceutical preparation, food and medicine packaging. gasoline vapour recycle, film preparation, high science engineering and chemical analysis, semiconductor, micro-electronics, solar energy, deal with materials industrial and R&D labs ect.

### Advantages:

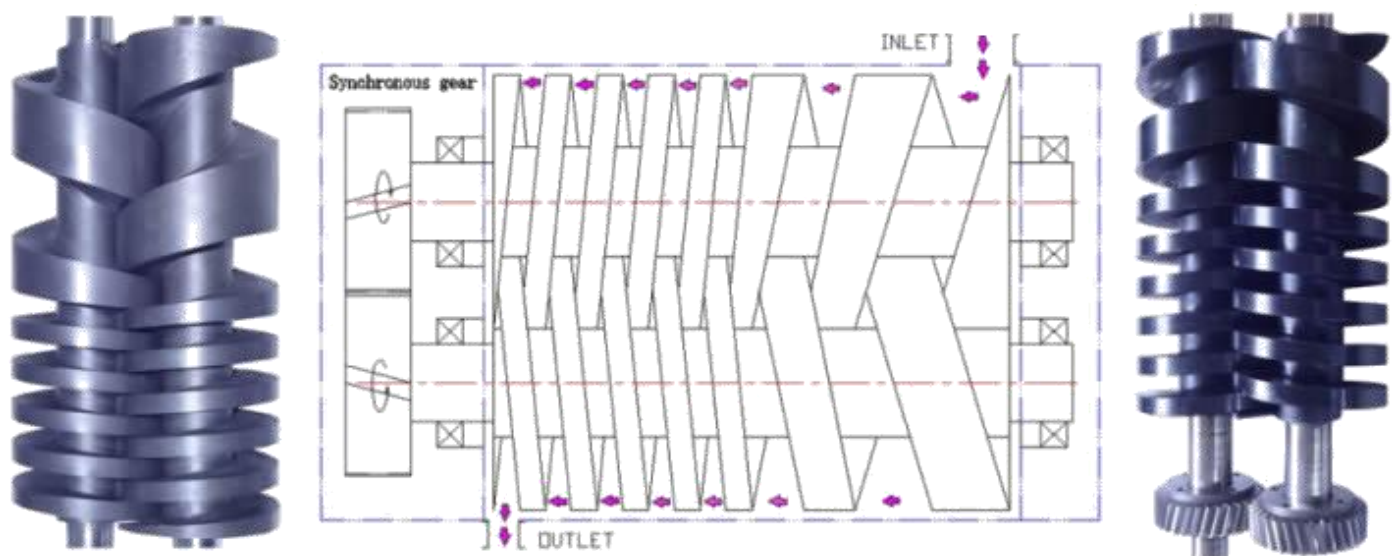
- Advanced technology; adopting advanced the fifth generation of compound variable pitch screw technology
- Environmental friendly; environment protection, no-oil (oil free), no-water, non-pollution, clean vacuum
- The gases pumped can be recycled, applying for oil and gas recovery and solvent recycling and special gas recycling
- Energy-saving, energy-saving technology with variable pitch, reduce energy consumption by 30%
- Chemical corrosion resistance, having anti-corrosion film PTPE
- Air-cooled structure, easy to operate
- High ultimate vacuum up to 3Pa
- Operating pressures from atmospheric pressure to ultimate pressure

- Saving manpower, longer maintenance intervals of up to ten thousands hours
- Easy to clean, if the pump under the dirt can be filled with the gas or cleaning agent to cleaning.
- Reliable sealing structure, use of a lip seal, mechanical seal and a gas seal structure, exhaust smooth, with good fluid-handling capabilities
- Light weight, using new lightweight materials
- Low voice and vibration, using high precision parts.
- Low temperature rise, due to the use the new material, and heat faster.
- Shockproof prevent design can be placed on the ground directly.
- Disassembling break, easy to maintain.
- Easy to install, adopting KF connection.

Model	Unit	SZS020	SZS050	SZS080
Flowrate(50Hz/60Hz)	m <sup>3</sup> /h	20	50	80
Ultimate Vacuum	Pa	3(50)		
Motor Power	Kw/Hp	0.75/1.0	1.5/2.0	2.2/3.0
Inlet Hole Size		KF25	KF40	KF40
Outlet Hole Size		KF25	KF25	KF25
Cooling Method		Air Cooled		
Bearing Oil		100#		
Sealing Method		Double lip teflon/Double rubber/Mechanical seal		
Noise	dB	69	70	71
Weight		36	53	62
Dimension	L*W*H,MM	666*295*234	855*310*261	896*310*261
<b>Remark:</b> 1m <sup>3</sup> /h=0.28L/S, 1m <sup>3</sup> /h=0.59cfm, 1Pa=0.01mbar, 1Pa=0.001Kpa, 1Pa=0.0075mmHg (torr).				

Vulnerable part:bearing,shaft seal

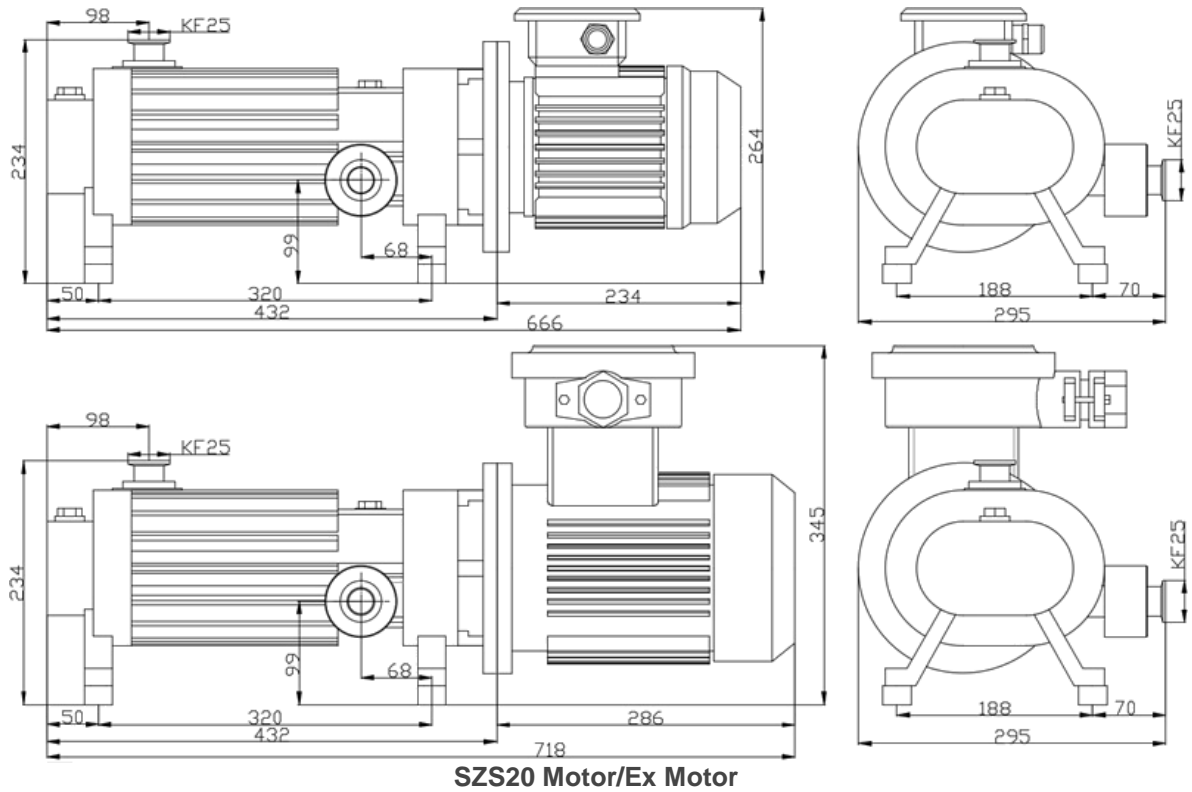
Consider buying filter with pump.

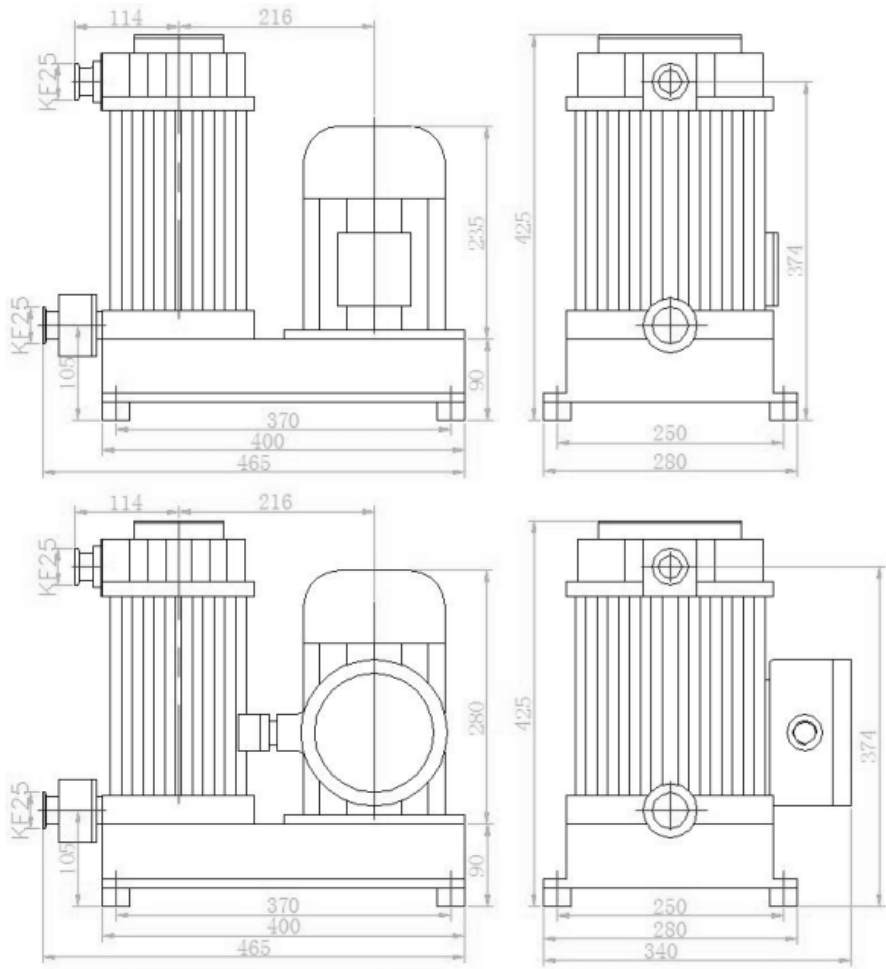


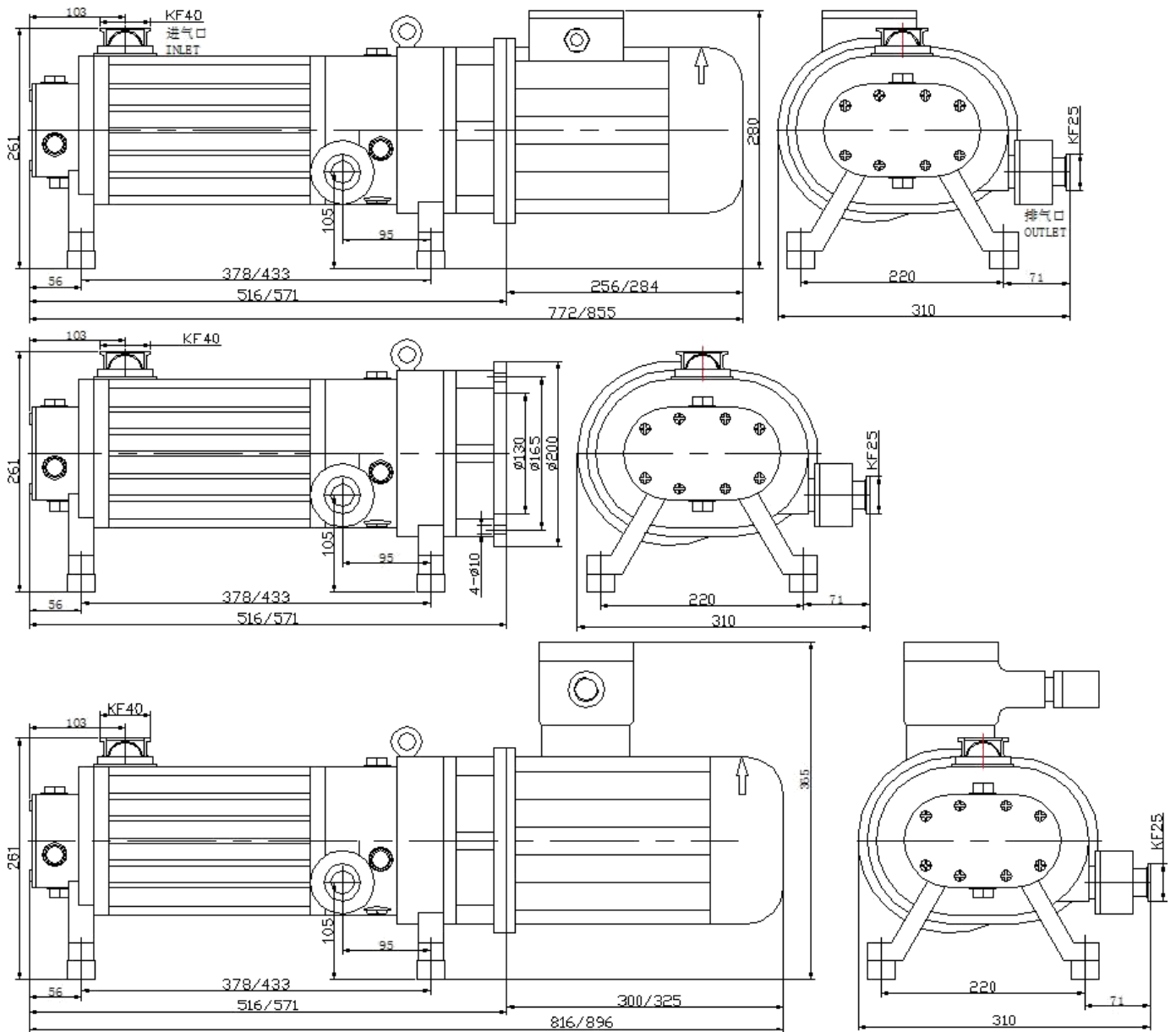
Dry Compound Screw Vacuum Pump are consist of two paralleled screw rotors and pump body form multiple sealed space, rotor and rotor, rotor and pump body all keep minuscule clearance(no touch, no friction), with the reverse gears driving, gas keep continuous transfer from inlet hole to outlet hole. Due to two rotors and pump body have no friction each other, need not lubrication oil, can keep clean gas. Gas keep continuous transfer, short passageway, high efficiency, outlet hole position

lower than screw rotors, strong drainage ability, easy to cleaning, no intermediate bulkhead(claw vacuum pump and rotors vacuum pump have intermediate bulkhead), better exhaust and drainage, easy to maintain.

**Dimensions:**







**SZS50/80 Motor/Ex Motor**

# Piping and Instrumentation Diagram

