



SKYBULLTM
COMPRESSOR



Mfg. & Import By.

SKY COMPRESSOR

- Fixspeed Air Compressor
- VFD Air Compressor
- Two Stage Air Compressor
- Refrigeration Air Dryer
- Receiver Tank



SBF SERIES



FIXED SPEED SCREW AIR COMPRESSOR

1. Advanced High Efficiency Air End

Adopts industry-leading screw air end, high efficiency and low rotating speed. With the third generation tooth type of rotor, cutting-edge geometric design-stable, reliable, energy saving and long service life.

2. Flexible Coupling Direct Driven

Adopts direct connection structure without any loss, transmission efficiency is 100%, maintenance cost is low, disassembles convenient, greatly save the downtime. Easy maintenance—air end maintenance only need to disassemble the air end, motor maintenance only need to disassemble motor, do not affect each other.

3. Intelligent Microcomputer Control System

Adopts intelligent control system to ensure fully automated intelligent operation, detect exhaust pressure, temperature and other field data, and control the exhaust pressure within the preset pressure range through the intake valve, so as to output stable pressure.

4. Safe, Reliable and Efficient Motor

Adopts unique low-speed motor, protection grade IP55, insulation grade F, suitable for bad working conditions. High balance precision, high speed running smoothly.

5. Unique Heat Removal & Cooling System

Adopts advanced design, harmonica radiator, effectively increase the heat dissipation area, run faster and smoother, and take away the heat of the machine in time. The heat exchange effect of the same area is 30% higher than that of the traditional cooler. Even in the Asia-Pacific region with high temperature and high humidity, the normal operation of the unit can be guaranteed.

FIXED SPEED SCREW AIR COMPRESSOR

- Advanced High Efficiency Air End
- Flexible Coupling Direct Drive
- Intelligent Microcomputer Control System
- Safe,Reliable and Efficient Motor
- Unique Heat Removal &Cooling System



Fixed Speed Screw Air Compressor Specification 7.5kw-45kw

Model		SB-7.5F	SB-11F	SB-15F	SB-18.5F	SB-22F	SB-30F	SB-37F	SB-45F
Motor	Power(kw)	7.5	11	15	18.5	22	30	37	45
	Horsepower(ps)	10	15	20	25	30	40	50	60
Air displacement/ Working pressure (M ³ /Min./MPa)		1.2/0.7	1.9/0.7	2.5/0.7	3.2/0.7	3.8/0.7	5.3/0.7	6.8/0.7	7.4/0.7
		1.1/0.8	1.7/0.8	2.3/0.8	3.0/0.8	3.6/0.8	5.0/0.8	6.2/0.8	7.0/0.8
		0.9/1.0	1.6/1.0	2.1/1.0	2.7/1.0	3.2/1.0	4.5/1.0	5.6/1.0	6.2/1.0
		0.8/1.2	1.4/1.2	1.9/1.2	2.4/1.2	2.7/1.2	4.0/1.2	5.0/1.2	5.6/1.2
Air outlet diameter		DN20	DN25	DN25	DN25	DN25	DN40	DN40	DN40
Lubricating oil volume (L)		10	16	16	18	18	30	30	30
Noise level dB(A)		60±2	62±2	62±2	64±2	64±2	66±2	66±2	66±2
Driven method		Direct driven							
Start method		Δ	Y-Δ						
Weight (kg)		220	350	360	510	510	650	700	780
External dimensions	Length (mm)	900	1100	1100	1200	1200	1460	1460	1460
	Width (mm)	600	730	730	880	880	980	980	980
	Height (mm)	800	980	980	1080	1080	1230	1230	1230

Fixed Speed Screw Air Compressor Specification 55kw-132kw

Model		SB-55F	SB-75F	SB-90F	SB-110F	SB-132F
Motor	Power(kw)	55	75	90	110	132
	Horsepower(ps)	75	100	125	150	175
Air displacement/ Working pressure (M ³ /Min./MPa)		10.0/0.7	13.4/0.7	16.2/0.7	21.0/0.7	24.5/0.7
		9.2/0.8	12.6/0.8	15.0/0.8	19.8/0.8	23.2/0.8
		8.5/1.0	11.2/1.0	13.8/1.0	17.4/1.0	20.5/1.0
		7.6/1.2	10.0/1.2	12.3/1.2	14.8/1.2	17.4/1.2
Air outlet diameter		DN50	DN50	DN50	DN65	DN65
Lubricating oil volume (L)		65	65	72	90	90
Noise level dB(A)		68±2	68±2	70±2	70±2	70±2
Driven method		Direct driven				
Start method		Y-Δ	Y-Δ	Y-Δ	Y-Δ	Y-Δ
Weight (kg)		1250	1350	1950	2200	2500
External dimensions	Length (mm)	1750	1750	2450	2450	2450
	Width (mm)	1280	1280	1660	1660	1660
	Height (mm)	1590	1590	1700	1700	1700

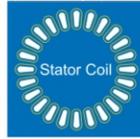


Permanent Magnet Motor

Variable Speed Screw Air Compressor



Permanent Magnet Synchronous Motor (PM)
Adopts the high efficiency NdFeB permanent magnet, The service life is more than 15 years.



Stator Coil
Using the wire which is specialized in the inverter. Excellent insulation, longer service life.



When the use of air is not stable, average energy saving reaches to 35-50%.



Reduce the working pressure of the system. The constant voltage is more efficient.



No power consumption when it is unloading . No unloading, No electricity waste.



Permanent magnet synchronous motor for higher efficiency.



Wider range of the AC voltage(300V-440V). The compressor can run normally and it won't stop in this range.

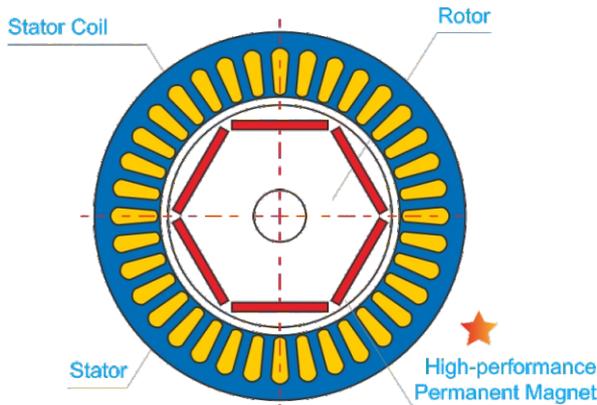


Can adjust the discharge air volume according to the air pressure.

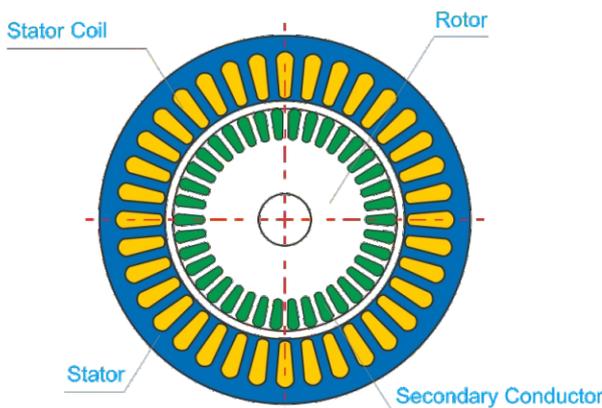


Colour touch screen
Customised smart touch screen and control module .Easy to operate.

Comparison(Permanent Magnet Synchronous Motor & Normal Asynchronous Motor)



Permanent Magnet Synchronous Motor



Asynchronous Induction Motor

Magnetic field is the foundation of the motor to realize the electricity energy conversion. Depending on the way to establish the magnetic field, it divides into the electric excitation motor and permanent magnet motor. Compared to the electric excitation motor, the permanent magnet motor has the advantages as below,

High Efficiency It cancels the loss of the excitation system which improves efficiency 5%-12% .

The power factor is high , the force ratio of inertia is high. The motor is in directed drive, without the speed slip loss, No need for the bearing and connection to drive, that can improve more than 3% efficiency. When in light loading, the PM motor can improve 15-35% efficiency as the same specifications of induction motor. High efficiency in light or heavy load.

At present, Skybull is use the level 1 energy saving PM motor.

Low Noise With the design in magnetic field,magnetic density distribution,wider working frequency range ,lower operation noise.

The air pressure is constant, open loop vector control, it can adjust a wide range of discharge air volume immediately.

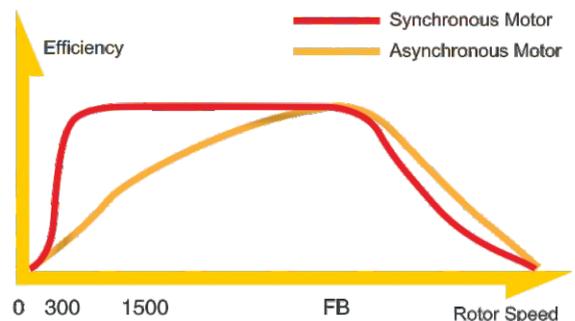
Compact Structure ,Small Size,Light Weight

It cancels the excitation winding and the excitation power (magnetic pole core).

The structure is simple ,reliable operation and easy maintain.

High Precision, Fast Response

Bigger Starting Torque



Synchronous Motor and Asynchronous Motor Efficiency Curve

PM VSD SCREW AIR COMPRESSOR

- Intelligent Control System
- The Latest Generation High Efficiency Permanent Motor
- The Latest Generation Super Stable Inverter
- Wide Working Frequency Range To Save Energy
- Small Start-up Impact
- Low Noise



PM VSD Screw Air Compressor specification 7.5kw-45kw

Model		SPM-7.5V	SPM-11V	SPM-15V	SPM-18.5V	SPM-22V	SPM-30V	SPM-37V	SPM-45V
Motor	Power(kw)	7.5	11	15	18.5	22	30	37	45
	Hor epower(ps)	10	15	20	25	30	40	50	60
Air displacement/ Working pressure (M ³ /Min./MPa)		1.2/0.7	1.9/0.7	2.5/0.7	3.2/0.7	3.8/0.7	5.3/0.7	6.8/0.7	7.4/0.7
		1.1/0.8	1.7/0.8	2.3/0.8	3.0/0.8	3.6/0.8	5.0/0.8	6.2/0.8	7.0/0.8
		0.9/1.0	1.6/1.0	2.1/1.0	2.7/1.0	3.2/1.0	4.5/1.0	5.6/1.0	6.2/1.0
		0.8/1.2	1.4/1.2	1.9/1.2	2.4/1.2	2.7/1.2	4.0/1.2	5.0/1.2	5.6/1.2
Air outlet diameter		DN20	DN25	DN25	DN25	DN25	DN40	DN40	DN40
Lubricating oil volume (L)		10	16	16	18	18	30	30	30
Noise level dB(A)		60±2	62±2	62±2	64±2	64±2	66±2	66±2	66±2
Driven method		Direct driven							
Start method		PM VSD							
Weight (kg)		220	350	360	510	510	650	700	780
External dimensions	Length (mm)	900	1100	1100	1200	1200	1460	1460	1460
	Width (mm)	680	730	730	880	880	980	980	980
	Height (mm)	800	980	980	1080	1080	1230	1230	1230

PM VSD Screw Air Compressor Specification 55kw-132kw

Model		SPM-55V	SPM-75V	SPM-90V	SPM-110V	SPM-132V
Motor	Power(kw)	55	75	90	110	132
	Horsepower(ps)	75	100	125	150	175
Air displacement/ Working pressure (M ³ /Min./MPa)		10.0/0.7	13.4/0.7	16.2/0.7	21.0/0.7	24.5/0.7
		9.2/0.8	12.6/0.8	15.0/0.8	19.8/0.8	23.2/0.8
		8.5/1.0	11.2/1.0	13.8/1.0	17.4/1.0	20.5/1.0
		7.6/1.2	10.0/1.2	12.3/1.2	14.8/1.2	17.4/1.2
Air outlet diameter		DN50	DN50	DN50	DN65	DN65
Lubricating oil volume (L)		65	65	72	90	90
Noise level dB(A)		68±2	68±2	70±2	70±2	70±2
Driven method		Direct driven				
Start method		PM VSD				
Weight (kg)		1250	1350	1950	2200	2500
External dimensions	Length (mm)	1750	1750	2450	2450	2450
	Width (mm)	1280	1280	1660	1660	1660
	Height (mm)	1590	1590	1700	1700	1700

Two-Stage Screw Air Compressor

- More Free Air Delivery
- Energy Saving
- Good Performance

Two-stage Permanent Magnet Variable Speed

Product features

- Getting more compressed air, but the same power consumption.
- Two-stage compression air end, increase the efficiency 8% on average.
- high-efficiency energy-saving PM motor, ensure trouble-free in all weather conditions.
- Excellent oil gas separation performance, outlet oil content is less than 2 ppm.
- Silent centrifugal fan, stronger wind pressure reduce the probability of heat exchanger failure.

Lower power consumption, higher air capacity.



TWO-STAGE PM VSD AIR COMPRESSOR SERIES

- Improved host lifetime
- Two-stage compression replaces single-stage compression
- Two-stage compression is more reliable and efficient
- Two-stage compression mainframe more efficient, more energy-saving



Two-stage PM VSD Air Compressor Series Specification 22kw-75kw

Model		SBPM-22TS	SBPM-37TS	SBPM-45TS	SBPM-55TS	SBPM-75TS
Motor	Power(kw)	22	37	45	55	75
	Horsepower(ps)	30	50	60	75	100
Air displacement/ Working pressure (M ³ /Min./MPa)		4.2/0.7	7.6/0.7	9.8/0.7	12.8/0.7	16.9/0.7
		4.1/0.8	7.1/0.8	9.7/0.8	12.5/0.8	16.5/0.8
		3.5/1.0	5.9/1.0	7.8/1.0	10.7/1.0	13.0/1.0
		3.2/1.3	5.4/1.3	6.5/1.3	8.6/1.3	11.0/1.3
Air outlet diameter		DN40	DN40	DN65	DN65	DN65
Lubricating oil volume (L)		18	30	30	65	65
Noise level dB(A)		70±2	72±2	72±2	74±2	74±2
Driven method		Direct driven				
Start method		PM VSD				
Weight (kg)		730	1080	1680	1780	1880
External dimensions	Length (mm)	1500	1900	1900	2450	2450
	Width (mm)	1020	1260	1260	1660	1660
	Height (mm)	1310	1600	1600	1700	1700

Two-stage PM VSD Air Compressor Series Specification 90kw-185kw

Model		SBPM-90TS	SBPM-110TS	SBPM-132TS	SBPM-160TS	SBPM-185TS
Motor	Power(kw)	90	110	132	160	185
	Horsepower(ps)	125	150	175	220	250
Air displacement/ Working pressure (M ³ /Min./MPa)		20.8/0.7	25.5/0.7	29.6/0.7	33.6/0.7	39.6/0.7
		19.8/0.8	24.6/0.8	28.0/0.8	32.6/0.8	38.0/0.8
		17.5/1.0	20.5/1.0	23.5/1.0	28.5/1.0	32.5/1.0
		14.3/1.3	17.6/1.3	19.8/1.3	23.8/1.3	27.6/1.3
Air outlet diameter		DN65	DN65	DN80	DN80	DN80
Lubricating oil volume (L)		120	120	120	140	140
Noise level dB(A)		76±2	76±2	76±2	78±2	78±2
Driven method		Direct driven				
Start method		PM VSD				
Weight (kg)		2800	3160	3280	3390	3590
External dimensions	Length (mm)	2450	3150	3150	3800	3800
	Width (mm)	1660	1980	1980	1980	1980
	Height (mm)	1700	2150	2150	2150	2150

SBTG Series 4IN1 Screw Air Compressor

Regular Compressor System Chart

VS

4 IN 1 Type



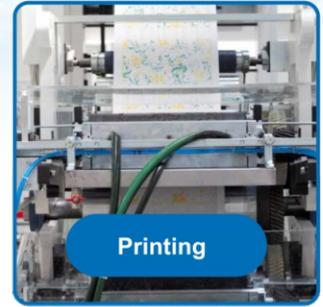
Energy-Saving



Save Space



Reliable



Printing



Auto Industry



Textile

(Applicable to all walks of life)

Why We Choose Compressed Air Be The Auxiliary Gas Of Laser Cutting Machine?



(16Bar – 4pcs line air filter)

- Advantage
Low cost, widely application.
- Applicable materials
Carbon steel, aluminum, aluminum alloy, stainless steel, brass, etc.
- Air supply pressure
13bar - 16bar.



Laser Cutting

Protect Your Laser Cutting Machine

After our search, the protective lens contacts with compressed air, if there is oil and water, the focused light will be dispersed, and the cutting efficiency will be reduced.

Therefore Skybull 4in1 screw air compressor include 400L air tank, lower pressure dew point refrigerated air dryer and 4 level line air filter to protect your laser cutting machine, thus to reduce the factory operation cost.

SBTG series 4in1 Permanent Magnet VSD Screw Air Compressor

Model	Max Working Pressure		F.A.D		Motor Power		Air Tank Capacity	Connection	Net Weight	Dimension (L*W*H)
	bar	psig	m ³ /min	CFM	hp	kw				
S7.5BTG-8	8	116	1.10	38	10	7.5	250	G3/4"	350	1430*800*1580
S7.5BTG-10	10	145	0.90	31						
S11BTG-8	8	116	1.60	56	15	11	400	G3/4"	510	1850*950*1870
S11BTG-10	10	145	1.40	49						
S15BTG-8	8	116	2.60	91	20	15	400	G3/4"	510	1850*950*1870
S15BTG-10	10	145	2.00	70						
S22BTG-8	8	116	3.60	127	30	22	400	G1"	555	1850*950*1870
S22BTG-10	10	145	3.00	106						

(15 Bar-Special For Laser Cutting Machine)

Model	Max Working Pressure		F.A.D		Motor Power		Air Tank Capacity	Connection	Net Weight	Dimension (L*W*H)
	bar	psig	m ³ /min	CFM	hp	kw				
S11BTG-15	15	217	1.0	35	15	11	400	G3/4"	510	1850*950*1870
S15BTG-15	15	217	1.6	56	20	15	400	G3/4"	510	1850*950*1870
S22BTG-15	15	217	2.3	81	30	22	400	G1"	555	1850*950*1870

- Compressor stage: one stage compression
- Standard power supply: 380v/50Hz/3Ph
- Exhaust temperature: ambient temperature +15°C
- Please contact us for any specification that is not within the above mentioned standards.



SRD AIR DRYER SERIES



It is an efficient plate heat exchanger made of a solent cooper tube
 Unlike the conventional stainless steel plate, the pre-cooler evaporator and the gas-water separator are combined into one. No external nozzles and splitters are required.
 The structure is compacted and with small footprint.

MAIN FEATURE

It adopts the advanced stainless steel fin structure, which integrates pre-cooler, evaporator and gas-water separator as a whole, with small volume and no secondary pollution to compressed air.

The heat exchanger has a compact structure and a high heat transfer coefficient; The temperature difference between the inlet and outlet of the pre-cooler at 5-8 °C is much better than that of the traditional heat exchanger, which not only ensures extremely low relative humidity at the outlet, but also effectively reduces the load of the evaporator, thus reducing the energy consumption of the whole machine.

Small size, easy installation, modular combination to improve production efficiency.

Adopt international famous brand refrigeration compressor, the performance is stable and reliable.
 Control: dew point display, simple operation and remote control.

Air Dryer Specification

Model	Capacity (CFM)	Refrigerants	Power Voltage	Installed power (kW)	net weight (kg)	Connection size	L*W*H(mm)
SRD-002	20	R134A	1 PH/220V/50HZ	0.15	35	G3/4"	500*360*680
SRD-004	40	R134A	1 PH/220V/50HZ	0.20	35	G1"	500*360*725
SRD-006	60	R134A	1 PH/220V/50HZ	0.40	48	G1"	550*440*820
SRD-008	80	R22	1 PH/220V/50HZ	0.50	58	G 1 1/2"	650*540*765
SRD-010	100	R22	1 PH/220V/50HZ	0.60	76	G 1 1/2"	770*590*870
SRD-015	150	R22	1 PH/220V/50HZ	0.90	88	G 1 1/2"	800*700*880
SRD-020	200	R22	1PH/220V/50HZ	1.20	110	G2"	800*700*880
SRD-025	250	R22	3PH/415V/50HZ	1.40	130	G2"	850*750*950
SRD-030	300	R22	3PH/415V/50HZ	1.60	155	G 2 1/2"	850*950*990
SRD-040	400	R22	3PH/415V/50HZ	1.90	220	G2 1/2"	900*900*1290
SRD-050	500	R22	3PH/415V/50HZ	2.30	280	PL80-16RF	1050*1030*1320
SRD-060	600	R22	3PH/415V/50HZ	2.80	305	PL80-16RF	1050*1030*1320
SRD-070	700	R22	3PH/415V/50HZ	3.70	355	PL100-16RF	1050*1050*1750
SRD-080	800	R22	3PH/415V/50HZ	4.20	365	PL100-16RF	1050*1050*1750
SRD-100	1000	R22	3PH/415V/50HZ	5.00	470	PL125-16RF	1050*1050*1750
SRD-120	1200	R22	3PH/415V/50HZ	5.45	510	PL125-16RF	1050*1050*1750
SRD-150	1500	R22	3PH/415V/50HZ	6.80	750	PL150-16RF	2060*1050*2010

AIR TANK

The Air tank occupies an important position in the work of the air compressor. The Air tank makes the gas supply more stable, reduces the frequent start of the air compressor, and thus achieves the effect of energy-saving. At the same time, let the compressed air precipitate in the Air tank is more conducive to water and pollution removal.

Air Tank Specification

Model		AT300-8	AT300-10	AT300-13	AT600-8	AT600-10	AT600-13	AT1000-8	AT1000-10	AT1000-13
Volume (L)		300	300	300	600	600	600	1000	1000	1000
Working pressure (MPa)		0.8	1.0	1.3	0.8	1.0	1.3	0.8	1.0	1.3
External dimensions	Height (mm)	1602	1602	1602	1905	1905	1905	2180	2180	2180
	Inner diameter (mm)	550	550	550	700	700	700	800	800	800
	Thickness (mm)	6.0	8.0	8.0	6.0	8.0	8.0	6.0	8.0	8.0
Inlet connection	Size (mm)	DN25	DN25	DN25	DN40	DN40	DN40	DN40	DN40	DN40
	Height (mm)	636	636	636	672	672	672	720	720	720
Outlet connection	Size (mm)	DN25	DN25	DN25	DN40	DN40	DN40	DN40	DN40	DN40
	Height (mm)	1166	1166	1166	1442	1442	1442	1720	1720	1720

Model		AT2000-8	AT2000-10	AT2000-13	AT3000-8	AT3000-10	AT3000-13	AT5000-8	AT5000-10	AT5000-13
Volume (L)		2000	2000	2000	3000	3000	3000	5000	5000	5000
Working pressure (MPa)		0.8	1.0	1.3	0.8	1.0	1.3	0.8	1.0	1.3
External dimensions	Height (mm)	2860	2860	2860	3020	3020	3020	3000	3000	3000
	Inner diameter (mm)	1000	1000	1000	1300	1300	1300	1600	1600	1600
	Thickness (mm)	6.0	6.0	8.0	6.0	6.0	8.0	6.0	8.0	8.0
Inlet connection	Size (mm)	DN50	DN50	DN50	DN80	DN80	DN80	DN100	DN100	DN100
	Height (mm)	849	849	849	760	760	760	936	936	936
Outlet connection	Size (mm)	DN50	DN50	DN50	DN80	DN80	DN80	DN100	DN100	DN100
	Height (mm)	1949	1949	1949	2080	2080	2080	2236	2236	2236



For Different Industry

- Ceramic industry
- Textile, air-jet loom industry
- Fiber laser cutting industry
- Building, cement industry
- Chemical, pharmaceutical industry
- Mining, electric power, military industry
- Food, packaging industry
- Metal products, pressure molding industry
- Electronics, lithium power industry
- Construction, transportation industry
- Energy, hydropower industry
- Advanced spraying, environmental protection industry



SKY COMPRESSOR

- 📍 Opp. The Grand Vaibhav Hotel, Kelvi Plaza,
Lakhdirpur Road, MORBI - 363642. (Guj.) INDIA
- ✉ skycompressors@gmail.com
- 🌐 www.skycompressors.com
- ☎ +91 92653 24824