HSPco
since 2008

Oil-injected
Screw
Air Compressor

Installed motor power
7.5 - 400 kw /10- 530 hp

Hava sazan Pars Company

— ***Single stage rotary screw air compressor***

. Single stage fixed frequency rotary screw air compressor
. Single stage Variable frequency rotary screw air compressor

— ***Two stage rotary screw air compressor***

. Ultra efficient energy-saving variable frequency air compressor
. Two stage fixed frequency rotary screw air compressor
. Two stage permanent magnet variable frequency rotary screw air compressor

ISO ISO9001

Single Stage
Screw Air Compressor

HSPco since 2008
HAVASAZAN PARS CORPORATION

SINGLE-STAGE FIXED FREQUENCY Screw Air Compressor

Exquisite design and manufacturing reduces the workload of routine.

Product Features

- Adopting 1:1 direct drive,low noise,low loss,more effective protection of the motor torque.
- New high-quality sound insulation materials and soundproof boxes to ensure that the working noise is within the ideal range,creating a quiet and comfortable working environment for users.
- Reduced transmission components,stable equipment performance,low maintenance costs.
- Compact design,simple and generous appearance,low space occupation.
- Removable air guide for easy maintenance.
- Intelligent control system for easy operation.

Core Technology

01 Air Compressor Element

- Our air compressor element selection of 40CrA high-quality alloy steel,with wear-resistant and corrosion-resistant and other high-quality performance.
- Adopting BAES rotor profile developed by BAE Group,the third generation 5:6 asym metric tooth rotor,balanced force during high-speed operation,rotor tangential speed≤35m/s,rotor clearance between the rotors to maintain 0.003INCH,the samepower section compressor element can save energy 10-15%.
- CNC 5-axis rotor grinding machines are used for the production of our rotors,and the machining of polyhedra and curved surfaces is automated with high precision.

02 Asynchronous Motors

- Motor stator using die-casting silicon steel plate,diecasting length in the motor of 20%-40%,significantly improve the performance of the motor.
- Motor windings with F-class insulation 155 ℃,B-class temperature rise assessment, using IP55 or more protection level.
- Customized imported SKF bearings to reduce noise and heat.Ensure product reliability.

03 Air Filtration System

- Custom U.S. filter media made from a cellulose synthetic blend.
- Extremely fine fiber filter media prepared by electrostatic spinning process using the latest technology to achieve continuous, elastic synthetic fibers of 0.2-0.3micron.
- Achieve up to 99.99%filtration and keep dust on the surface rather than inside with very fine fiber technology,increasing life and reducing energy requirements.

04 Control And Electrical Systems

- RS485 communication mode transmission communication,data can be collected to integrate the user's central console to monitor.
- the intelligent controller to calculate the dynamic adjustment of the control accuracy,to achieve accurate control of the torque.
- Cell phone,computer real-time display of operating parameters,maintenance remind ers,energy management, data analysis,etc.
- using Siemens/ABB and other brands of electrical systems.

05 Oil And Gas Separation System

- Customized enlargement coefficient of oil and gas barrels,to ensure that the pipeline pressure loss in the minimum degree Increase the space so that the equipment to play a good heat dissipation effect,stable operation of the equipment
- Imported filter material makes the oil content at the outlet of the compressor≤2PPM.

Single Stage
Screw Air Compressor

HSPco since 2008
HAVASAZAN PARS CORPORATION

Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-7A	7.5	0.8	1.3	865*570*825	G1/2	170
		1.0	1.0			
		1.3	0.9			
BAE-11A	11	0.8	1.8	1050*650*950	G3/4	270
		1.0	1.6			
		1.3	1.1			
BAE-15A	15	0.8	2.5	1050*650*950	G3/4	280
		1.0	2.2			
		1.3	1.8			
BAE-18A	18.5	0.8	2.9	1200*850*1100	G1	390
		1.0	2.7			
		1.3	2.3			
BAE-22A	22	0.8	3.9	1200*850*1100	G1	400
		1.0	3.2			
		1.3	3.1			
BAE-30A	30	0.8	5.4	1200*850*1100	G1 1/4	480
		1.0	4.3			
		1.3	3.8			
BAE-37A	37	0.8	6.6	1350*950*1225	G1 1/2	580
		1.0	6.2			
		1.3	5.6			
BAE-45A	45	0.8	8.0	1350*950*1225	G1 1/2	720
		1.0	6.8			
		1.3	5.9			
BAE-55A	55	0.8	10.5	1650*1170*1440	G2	1100
		1.0	8.9			
		1.3	7.7			

Note: A:Air-cooled W:Water-cooled

Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-75A/W	75			1800*1200*1570	G2	1200
		1.0	12.5			
		1.3	9.8			
BAE-90A/W	90	0.8	16.5	1800*1200*1570	G2	1300
		1.0	13.0			
		1.3	12.5			
BAE-110A/W	110	0.8	21.0	2200*1400*1800	DN65	2200
		1.0	17.0			
		1.3	15.0			
BAE-132A/W	132	0.8	23.5	2200*1400*1800	DN65	2500
		1.0	20.6			
		1.3	16.5			
BAE-160A/W	160	0.8	29.7	2730*1710*1950	DN80	2950
		1.0	25.5			
		1.3	21.0			
BAE-185A/W	185	0.8	32.8	2730*1710*1950	DN80	3200
		1.0	29.0			
		1.3	25.0			
BAE-200A/W	200	0.8	34.5	2730*1710*1950	DN80	3400
		1.0	32.5			
		1.3	29.0			
BAE-220A/W	220	0.8	36.3	2970*1700*1900	DN80	4200
		1.0	33.5			
		1.3	29.8			
BAE-250A/W	250	0.8	44.5	3300*2150*2250	DN100	4400
		1.0	36.5			
		1.3	32.5			

Note: A:Air-cooled W:Water-cooled

The Company Has The Right To Change The Design For The Continuous Improvement Of The Products,and The Parameters Will Be Changed Without Prior Notice.

Single Stage
Screw Air Compressor

HSPco since 2008
HAVASAZAN PARS CORPORATION

Single Stage
VARIABLE FREQUENCY Air Compressor

Product Features:

01 Developed by UK based BAE BAES Rotor Profile

02 Motor energy efficiency exceeds national class 1,energy efficiency class IE5

03 Adopting IP65 oil cooled permanent magnet motor,no fan energy consumption,ultra high protection level

04 Customized SKF bearings with a design life of over 50,000 hoursand ceramic plating for highpower motors

05 Permanent magnet motor permanent magnet model:38UH

06 Tubular water-cooled cooler with high external film heat transfer coefficient and strong anti pollution ability

07 Centrifugal cooling fan,using frequency conversion fan,to provide users with energy-saving and efficient cooling system

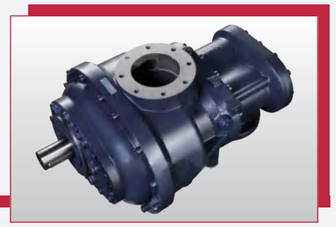
08 We independently designed air intake control combination valve,with air intake,tolerance,drain, stop check function

09 Aluminum plate-fin heat exchange air-cooled cooler,the material is corrosion-resistant aluminum alloy,the cooler material to add a special. alloy material to ensure the hardness of the cooler,customizedcooler heat transfer efficiency is greater than the general cooler to 35%, ensure the normal use in the hot weather

Core Technology

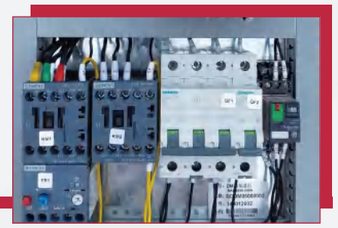
01 High Quality Air Compressor Element

- Our air end selection of 40CrA high-quality alloy steel, with wearresistant and corrosion-resistant and other high-quality performance.
- Adoption of BAE Group R&D BAES rotor profile,using the third generation of 5:6 asymmetric tooth rotor,highspeed operation of balanced force,the rotor tangential speed of≤35m/s,rotor clearance to maintain the gap between 0.003INCH, the same power section of the element can be energy-saving 10-15%.
- The rotor adopts CNC 5-axis rotor grinding machine,polyhedral and curved surface machining realizes high precision automated production.



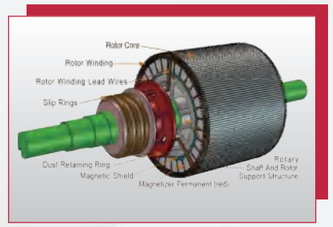
02 Intelligent Control System

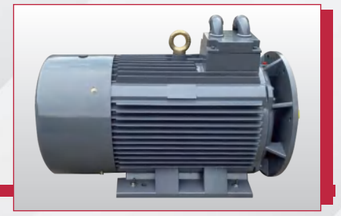
- Data detection+visualization AI intelligent control: real-time data monitoring, comprehensive diagnostic reports,can be on multiple equipment joint control AI intelligent calculation,matching,so as to achieve cost reduction and increase efficiency
- Cell phones and computers can show the dynamic screen in real time,easy to operate,for users to create a digital,intelligent air compressor station room



03 Permanent Magnet Synchronous Motor

- Due to the different characteristics of the voltage in China and in Europe, the technical staff of the our Group visited domestic high-end motor manufacturers that meet the Group's production requirements and standards.
- Ultra-low temperature rise design, the Air compressor element can operate stably under long-term low frequency, the permanent magnet is made of 38UH material, the maximum working temperature can reach 180C, IE5 energy efficiency grade, under the set pressure, the unit can be adjusted by frequency conversion to keep the pressure difference within 0. IMpa which makes the unit run more smoothly and more efficiently during the long-term use.





Single Stage
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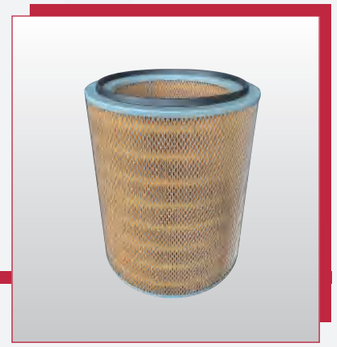
04 Oil and Gas Separation System

- Customized enlargement coefficient of oil and gas barrels, to ensure that the pipeline pressure loss in the minimum degree.
- Increase the space so that the equipment to play a good heat dissipation effect,stable operation of the equipment.
- Imported filter material makes the oil content at the outlet of the compressors ≤2PPM.

05 Air Filtration System

- Custom U.S. filter media made from a cellulose synthetic blend Extremely fine fiber filter.
- Media prepared by electrostatic spinning process using the latest technology to achieve continuous, elastic synthetic fibers of 0.2-0.3micron.
- Up to 99.99% filtration efficiency can be achieved, and the extremely fine fiber technology keeps dust on the surface rather than inside, increasing the life span and reducing the required energy consumption.



06 Frequency Converter

- Customized high-performance vector control inverter of Huichuan/ABB brand Customized inverter.
- Speed control can start at zero speed and adjust the acceleration curve evenly according to the user's needs.
- With the option of linear acceleration, S-shaped acceleration or automatic acceleration.

Comparison of power saving effect between 75KW screw compressor and high-efficiency frequency conversion screw compressor:
(Based on an average of 8,000 hours of operation per year):

Screw Compressor	Screw Compressor With External Inverter	Ordinary Permanent Magnet Frequency Conversion Screw Air Compressor	BAE permanent magnet frequency conversion screw air compressor
570,000 KW	480,000 KW	412,000KW	390,000KW

BAE High-efficiency Frequency Conversion Screw Air Compressor And General External Frequency Converter Air Compressor Compared To The Annual Electricity Savings:480,000kw-390,000kw=***90,000kw***

Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-7PM	7.5	0.8	0.4-1.2	700*600*860	G1/2	180
		1.0	0.3-1.0			
		1.3	0.2-0.8			
BAE-11PM	11	0.8	0.7-1.9	1000*750*1070	G3/4	300
		1.0	0.6-1.6			
		1.3	0.3-1.1			
BAE-15PM	15	0.8	1.0-2.4	1000*750*1070	G3/4	330
		1.0	0.9-2.1			
		1.3	0.7-1.8			
BAE-22PM	22	0.8	1.8-3.8	1100*850*1110	G1	430
		1.0	1.5-3.2			
		1.3	1.2-2.5			
BAE-30PM	30	0.8	2.4-5.3	1100*850*1110	G1	460
		1.0	2.0-4.4			
		1.3	1.9-3.5			
BAE-37PM	37	0.8	3.4-6.8	1200*970*1350	G11/2	610
		1.0	2.9-6.0			
		1.3	2.2-4.8			
BAE-45PM	45	0.8	4.0-8.0	1200*970*1350	G11/2	720
		1.0	3.5-7.5			
		1.3	3.0-6.5			
BAE-55PM	55	0.8	5.0-10.5	1500*1200*1550	G2	950
		1.0	4.5-9.0			
		1.3	3.6-7.8			
BAE-75PM	75	0.8	7.0-13.5	1500*1200*1550	G2"	970
		1.0	6.2-12.5			
		1.3	5.2-10.2			

Note: **PM:**Permanent Magnet Frequency Conversion

Single Stage
Screw Air Compressor

HSPco since 2008
HAVASAZAN PARS CORPORATION

Technical Parameter

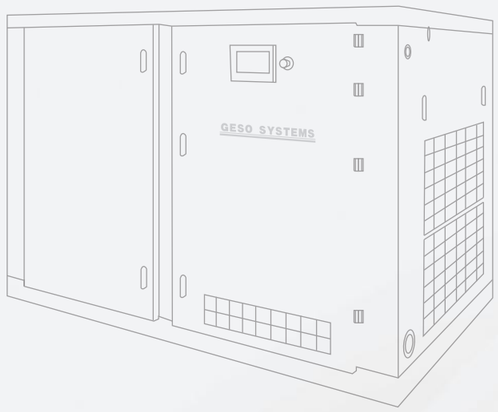
Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-90PM	90	0.8	6.6-16.5	1800*1200*1570	G2"	1050
		1.0	6.0-15.5			
		1.3	5.5-13.8			
BAE-110PM	110	0.8	9.0-21.5	2200*1400*1800	DN65	1850
		1.0	6.8-17.2			
		1.3	5.5-15.5			
BAE-132PM	132	0.8	9.6-23.6	2200*1400*1800	DN65	1900
		1.0	9.2-21.6			
		1.3	6.7-17.5			
BAE-160PM	160	0.8	12.0-29.8	2730*1710*1950	DN80	2700
		1.0	10.5-26.4			
		1.3	9.0-22.0			
BAE-185PM	185	0.8	13.5-33.2	2730*1710*1950	DN80	3000
		1.0	13.0-31.5			
		1.3	11.0-26.5			
BAE-200PM	200	0.8	13.8-34.5	2730*1710*1950	DN80	3200
		1.0	14.0-33.0			
		1.3	12.0-27.8			
BAE-220PM	220	0.8	16.3-36.3	3250*2000*2100	DN100	3600
		1.0	15.2-33.5			
		1.3	14.5-29.8			
BAE-250PM	250	0.8	18.0-44.0	3250*2000*2100	DN100	4000
		1.0	16.9-38.5			
		1.3	13.0-34.0			
BAE-280PM	280	0.8	19.0-46.8	3250*2000*2100	DN100	4000
		1.0	18.0-42.9			
		1.3	15.0-36.0			

Note:**PM:**permanent Magnet Frequency Conversion

Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m³/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-15PMS	15	0.8-1.0	0.6-2.4	920*720*1025	G3/4	260
BAE-15PMS+	15	0.8-1.0	0.6-2.7	1100*690*915	G1"	300
BAE-22PMS	22	0.8-1.0	0.9-3.7	1200*850*1100	G1"	340
BAE-22PMS+	22	0.8-1.0	0.9-3.8	1150*1100*1300	G1 1/4"	370
BAE-37PMS	37	0.8-1.0	1.7-6.8	1350*950*1225	G1 1/2"	490
BAE-37PMS+	37	0.8-1.0	1.7-6.8	1300*1150*1500	G1 1/4"	740
BAE-55PMS	55	0.8-1.0	2.6-10.5	1650*1170*1440	G2"	920
BAE-55PMS+	55	0.8-1.0	2.6-10.5	1850*1350*1750	G2"	1050
BAE-75PMS	75	0.8-1.0	5.2-13.0	1800*1200*1570	G2"	980
BAE-75PMS+	75	0.8-1.0	5.2-13.0	1850*1350*1750	G2"	1450

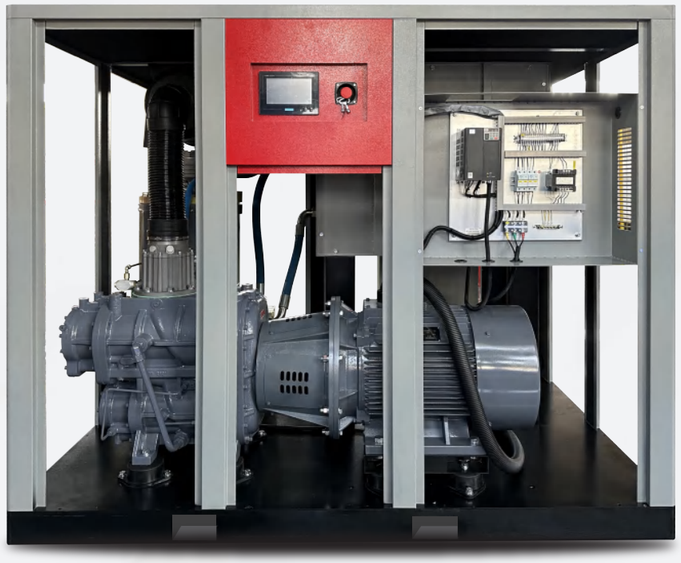
Note: **PM:** Permanent Magnet Frequency Conversion
S: Ultra Efficient And Energy-saving
+: Oil Cooling



Two Stage Rotary
screw air compressor

HSPco since 2008
HAVASAZAN PARS CORPORATION

TWO-STAGE FIXED
Frequency Rotary Screw Air Compressor



The two-stage compression mainframe adopts two sets of screw rotors of different sizes,and uses reasonable pressure distribution to reduce the compression ratio at each working time.

Low compression ratio,there are two advantages →

Firstly,Reduce theinternal leakage of the air compressor and improve volumetrie effieieney

+

Secondly. it greatly reduces the load of bearings improves the life of bearings and prolongs the life of the host machine

Two-stage compression screw air compressor operation process:

Initial step
Nature's air enters through the air compressor air filter into the first stage rotor for compression,in the compression chamber with a small amount of lubricating oil,and at the same time the mixed gas is compressed to the pressure between the first stage.

Second step
The compressed air enters the cold channel and comes into contact with a large amount of oil mist,thus greatly reducing its temperature and cooling it down ,After the compressed air then into the second stage rotor, It is compressed to the exhaust pressure and then discharged through the exhaust outlet to complete the whole compression process.

DESCRIPTION

01 Two Stage Air Compressor Element

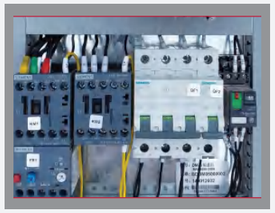
The material of the air compressor element is 40CrA high quality alloy steel,which has the high quality performance of wear-resisting and corrosion-resisting.
Adopting BAES rotor profile developed by BAE Group, adopting the third generation 5:6 asymmetric tooth rotor, balanced at high speeds Force, rotor tangential speed≤35m / s, the gap between the rotor to maintain 0.003INCH, the same power section air end can save energy 10-15% Self-developed isothermal curve design, improve isometric compression performance, for different oil paths to achieve interstage cooling, improve the adiabatic efficiency; by reducing the compression ratio to reduce the amount of leakage, close to the isothermal compression, compared to the single-stage compression efficiency by 13-15%

02 High-efficienc

YE3 energy efficiency grade motor stator using die-casting silicon steel plate, diecasting length in the motor of 20%-40%. significantly improve motor performance, motor winding with F-class insulation 155 C, B-class temperature rise assessment using IP55 or more protection level. Customized SKF bearings to reduce noise and heat generation and ensure product reliability

03 High-efficiency Intake Valves

Self-designed air inlet control combination valve, with air inlet, tolerance adjustment, discharge, stop function, accurate flow rate calculation, to ensure that the air inlet pressure loss is small.
Load when power is gained, unload when power is lost, with a normally closed valve to prevent air from entering the air end during startup, and smooth low current startup.
The inlet valve is equipped with an inlet bypass valve to prevent a high degree of vacuum in the air end when the compressor is starting up and unloaded, which affects the atomization of lubricating oil.



04 Smart Control Systems

Data detection + visualization to reduce operating costs,Real-time data monitoring, comprehensive diagnostic reports,can be more than one device joint control.
Realize AI intelligent calculation, matching, cell phones, computers can show the dynamic screen in real time.Simple operation, creating a digital, intelligent air compressor station for users.
Thus realizing cost reduction and efficiency increase

05 Cooling System

Customized aluminum plate-fin heat exchanger air-cooled cooler, corrosion-resistant aluminum alloy material, the cooler material to add special alloy materials to ensure the hardness of the cooler Customized tube water-cooled cooler, heat transfer efficiency is 35% higher than the general cooler, to ensure the user's normal use in high temperature weather, the outside of the tube outside the membrane heat transfer coefficient is high, anti-pollution capacity is strong Adopting centrifugal frequency conversion fan to provide users with energy-saving and efficient cooling system 15

Two Stage Rotary
screw air compressor

HSPco since 2008
HAVASAZAN PARS CORPORATION

Technical Parameter

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-30A+	30	0.8	6.4	1500*950*1225	G1 1/2	800
BAE-37A+	37	0.8	8.5	1500*950*1225	G1 1/2	900
		1.0	6.4			
BAE-45A+	45	0.8	10.0	1650*1170*1440	G2"	1200
		1.0	7.9			
		1.3	6.3			
BAE-55A+	55	0.8	13.1	1800*1200*1580	G2"	1500
		1.0	10.4			
		1.3	8.9			
BAE-75A+	75	0.8	16.4	1800*1200*1580	G2"	1600
		1.0	13.7			
		1.3	12.3			
BAE-90A+	90	0.8	20.2	2200*1400*1800	DN65	2200
		1.0	17.5			
		1.3	16.0			
BAE-110A+	110	0.8	24.1	2200*1400*1800	DN65	2300
		1.0	19.9			
		1.3	17.8			
BAE-132A+	132	0.8	28.0	2730*1710*1950	DN80	3200
		1.0	24.0			
		1.3	20.9			
BAE-160A+	160	0.8	34.2	2730*1710*1950	DN80	3500
		1.0	30.7			
		1.3	28.9			

Note:**A:** air-cooled **+:**two-stage compression

Technical Parameter

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-185A+	185	0.8	39.3	3250*2000*2100	DN100	4800
		1.0	34.7			
		1.3	32.1			
BAE-200A+	200	0.8	42.8	3250*2000*2100	DN100	4900
		1.0	40.6			
		1.3	35.0			
BAE-220A+	220	0.8	47.1	3250*2000*2100	DN100	5200
		1.0	43.0			
		1.3	37.5			
BAE-250A+	250	0.8	52.8	3250*2000*2100	DN100	5500
		1.0	48.1			
		1.3	43.0			
BAE-280A+	280	0.8	58.1	3770*2150*2250	DN125	6800
		1.0	52.4			
		1.3	48.0			
BAE-315A+	315	0.8	66.2	3800*2300*2300	DN125	7000
		1.0	58.0			
		1.3	50.8			
BAE-355A+	355	0.8	73.2	3800*2300*2300	DN125	8500
		1.0	65.4			
		1.3	55.0			
BAE-400A+	400	0.8	84.0	3800*2300*2300	DN125	9000
		1.0	72.0			
		1.3	63.0			

Note:**A:** air-cooled **+:**two-stage compression

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Two Stage Rotary
screw air compressor

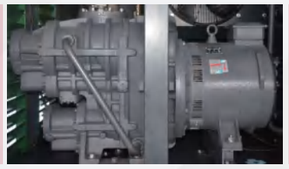
HSPco since 2008
HAVASAZAN PARS CORPORATION

TWO-STAGE PERMANENT MAGNET
Frequency Conversion Rotary Screw Air Compressor

Product features

Two-Stage Rotary Screw Air End

- The materlal of the alr compressor element is 40CRA high quality alloy steel, which has the high quality performance of wear-resisting and corrosion-resisting.
- Adopting the third generation of BAES 5:6 asymmetric tooth rotor profile developed by the Group, balanced force during high-speed operation, rotor tangential speed is 35m/s, rotor clearance between the rotors to maintaln 0.003INCH, the same power section air end can save energy 10-15%
- CNC 5-axis rotor grinding machines are used in the production of rotors, and the machining of polyhedra and curved surfaces is automated with high precision.
- Self-developed isothermal curve design, improve isometric compression performance,for different oil paths to achieve interstage cooling, improve the adiabatic efficiency.through the reduction or compression ratio to reduce Leakage, near isothermal compression,13-15% efficiency improvement over single stage compression.



Permanent Magnet Variable Frequency Motor

- Due to the different voltage characteristics in China and Europe, our Group's technicians have examined and selected domestic high-end motor manufacturers that met the Group's production requirements and standards to customize their products.
- Ultra-low temperature rise design, air end can be stable operation in long-term lower frequency.permanent magnet selectlon of 38UH materlal, the highest working temperature up to 180 C, IE5 energy efficlency level, in the set pressure, the unit through frequency adjustment, to maintain the pressure difference within 0.1Mpa,in the long-term use of the process of smoother operation, more energy efficient!

Energy Saving With Dual Inverter

- The motor and fan are controlled by frequency conversion regulation, thus making the oil temperature of the air end constant and the running speed lower, and enhancing the service life of the mainframe.
- Customized high-performance vector control frequency converter of Huichuan/ABB brand is used,the constant tempera ture of the unit is set at about 82°C, and the constant pressure accuracy is controlled at 0.01 MPA.
- Customized frequency conversion speed control can be started at zero speed and adiusted uniformly according to the user's needs.
- Linear acceleration, S-acceleration or automatic acceleration can be selected.

Cooling Fans

- Adopting frequency conversion centrifugal cooling fan, the noise is much lower than axial fan. providing users with energy-saving and environmentally friendly high-efficiency cooling system.
- Unique design: Utilizing the high-speed impeller to accelerate, decelerate and change the flow direction of the gas to achieve the cooling effect.
- Intelligent frequency conversion design: it can adjust the speed by itself according to the temperature of the cooler to realize energy saving and emission reduction.

High Quality Filtration Systems

- European standard customized oil/gas separator reduces exhaust gas oil content ≤ 2PPM and reduces differential pressure.
- The alr filter is made of cellulose synthetk mlxture, using the latest technology through the electrostatic spinning process to prepare very fine fiber media, which can achieve 0.2-0.3 micron continuous elasticity of synthetic fibers, the fliter media is uniform and the number of orifices is more than that of cellulose filter media, thus improving the fitration efficiency and dirt-holding capacity.
- The use of two-component fibers provides strong bonding capabilities, and the resin-free filter media developed by us offers lower resistance to fluids and a longer life.

High-efficiency Intake Valve

- Self-designed air intake control valve combination, with air intake, capacity adjustment discharge, stopping The precise flow rate calculation ensures low pressure loss of air intake.
- Adopting normally closed type valve to prevent the air from entering the air end during startup low current startup smoothly.
- The valve is normally closed to prevent air from entering the air end during startup, and the low-current startup is smooth.The air inlet valve is equipped with an air inlet bypass valve to prevent the air compressor from entering the air end during startup and no-load.High vacuum inside the compressor prevents the lubricant from atomizing.

Intelligent Control - Remote Start-stop System

- Data detectlon + wisuallzatlon to reduce operating costs
- Real-time data monitoring. comprehenslve dlagnostlc reports, jolnt control of multiple devices, Al intelligent calculation and matching. thus realizing Reduce cost and increase efflclency
- Cell phones and computers can display dynamic images, easy to operate, and create a digital, intelli gent alr compressor station for users.

Two Stage Rotary
screw air compressor

HSPco since 2008
HAVASAZAN PARS CORPORATION

Technical Parameter

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-22FC+	22	0.8	1.5-4.7	1200*850*1100	G1	600
		1.0	1.3-3.8			
BAE-30FC+	30	0.8	2.0-6.5	1500*950*1225	G1 1/2	800
		1.0	1.8-6.0			
		1.3	1.6-5.1			
BAE-37FC+	37	0.8	2.9-8.5	1500*950*1225	G1 1/2	900
		1.0	2.5-7.3			
		1.3	2.2-6.7			
BAE-45FC+	45	0.8	3.3-10.4	1650*1170*1440	G2"	1200
		1.0	2.9-8.4			
		1.3	2.2-6.6			
BAE-55FC+	55	0.8	4.0-13.2	1800*1200*1580	G2"	1500
		1.0	3.0-10.5			
		1.3	2.5-8.8			
BAE-75FC+	75	0.8	5.3-16.8	1800*1200*1580	G2"	1600
		1.0	3.7-13.9			
		1.3	3.6-12.4			

Note: FC: Frequency Conversion +: Two-stage Compression

Technical Parameter

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-90FC+	90	0.8	6.0-20.2	2200*1400*1800	DN65	2200
		1.0	5.1-17.3			
		1.3	4.7-16.1			
BAE-110FC+	110	0.8	7.5-24.0	2200*1400*1800	DN65	2300
		1.0	6.0-20.0			
		1.3	5.9-17.8			
BAE-132FC+	132	0.8	9.1-28.2	2200*1400*1800	DN80	2350
		1.0	8.5-24.6			
		1.3	6.9-20.3			
BAE-160FC+	160	0.8	11.4-34.7	2730*1710*1950	DN80	3500
		1.0	11.2-30.8			
		1.3	9.2-28.7			
BAE-185FC+	185	0.8	13.5-39.5	3250*2000*2100	DN100	4800
		1.0	11.7-35.1			
		1.3	10.2-32.5			
BAE-200FC+	200	0.8	14.8-43.1	3250*2000*2100	DN100	4900
		1.0	13.0-40.5			
		1.3	11.2-35.0			
BAE-220FC+	220	0.8	16.2-47.5	3250*2000*2100	DN100	5200
		1.0	14.9-42.8			
		1.3	13.2-37.7			
BAE-250FC+	250	0.8	19.0-53.5	3800*2314*2250	DN125	6900
		1.0	15.2-48.5			
		1.3	14.6-43.5			
BAE-280FC+	280	0.8	22.8-57.0	3800*2300*2300	DN125	6700
		1.0	19.6-49			
		1.3	18.8-47			
BAE-315FC+	315	0.8	24.8-62.0	3800*2300*2300	DN125	7000
		1.0	21.6-54			
		1.3	20.2-50.5			
BAE-355FC+	355	0.8	27.68-73	3800*2300*2300	DN125	8500
		1.0	24-65			
		1.3	21.92-54.8			
BAE-400FC+	400	0.8	32-84/8	3800*2300*2300	DN125	9000
		1.0	27.2-73/10			
		1.3	24.4-61/13			

Note: FC: Frequency Conversion +: Two-stage Compression

The Company Has The Right To Change The Design For The Continuous Improvement Of The Products,and The Parameters Will Be Changed Without Prior Notice.

GESO SYSTEMS

Oil-injected Screw Air Compressor

Installed motor power

7.5 - 400 kw /10 - 530 hp

Hava Sazan Pars Company

ISO ISO9001

CE

Single Stage
Screw Air Compressor

SINGLE-STAGE FIXED FREQUENCY Screw Air Compressor

Exquisite design and manufacturing reduces the workload of routine.

Product Features

- Adopting 1:1 direct drive,low noise,low loss,more effective protection of the motor torque.
- New high-quality sound insulation materials and soundproof boxes to ensure that the working noise is within the ideal range,creating a quiet and comfortable working environment for users.
- Reduced transmission components,stable equipment performance,low maintenance costs.
- Compact design,simple and generous appearance,low space occupation.
- Removable air guide for easy maintenance.
- Intelligent control system for easy operation.

HSPco since 2008
HAVASAZAN PARS CORPORATION

Core Technology

01 Air Compressor Element

- Our air compressor element selection of 40CrA high-quality alloy steel,with wear-resistant and corrosion-resistant and other high-quality performance.
- Adopting BAES rotor profile developed by BAE Group,the third generation 5:6 asym metric tooth rotor,balanced force during high-speed operation,rotor tangential speed≤35m/s,rotor clearance between the rotors to maintain 0.003INCH,the samepower section compressor element can save energy 10-15%.
- CNC 5-axis rotor grinding machines are used for the production of our rotors,and the machining of polyhedra and curved surfaces is automated with high precision.

02 Asynchronous Motors

- Motor stator using die-casting silicon steel plate,diecasting length in the motor of 20%-40%,significantly improve the performance of the motor.
- Motor windings with F-class insulation 155 ℃,B-class temperature rise assessment, using IP55 or more protection level.
- Customized imported SKF bearings to reduce noise and heat.Ensure product reliability.

03 Air Filtration System

- Custom U.S. filter media made from a cellulose synthetic blend.
- Extremely fine fiber filter media prepared by electrostatic spinning process using the latest technology to achieve continuous, elastic synthetic fibers of 0.2-0.3micron.
- Achieve up to 99.99%filtration and keep dust on the surface rather than inside with very fine fiber technology,increasing life and reducing energy requirements.

04 Control And Electrical Systems

- RS485 communication mode transmission communication,data can be collected to integrate the user's central console to monitor.
- the intelligent controller to calculate the dynamic adjustment of the control accuracy,to achieve accurate control of the torque.
- Cell phone,computer real-time display of operating parameters,maintenance remind ers,energy management, data analysis,etc.
- using Siemens/ABB and other brands of electrical systems.

05 Oil And Gas Separation System

- Customized enlargement coefficient of oil and gas barrels,to ensure that the pipeline pressure loss in the minimum degree Increase the space so that the equipment to play a good heat dissipation effect,stable operation of the equipment
- Imported filter material makes the oil content at the outlet of the compressor≤2PPM.

Single Stage
Screw Air Compressor

Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-7A	7.5	0.8	1.3	865*570*825	G1/2	170
		1.0	1.0			
		1.3	0.9			
BAE-11A	11	0.8	1.8	1050*650*950	G3/4	270
		1.0	1.6			
		1.3	1.1			
BAE-15A	15	0.8	2.5	1050*650*950	G3/4	280
		1.0	2.2			
		1.3	1.8			
BAE-18A	18.5	0.8	2.9	1200*850*1100	G1	390
		1.0	2.7			
		1.3	2.3			
BAE-22A	22	0.8	3.9	1200*850*1100	G1	400
		1.0	3.2			
		1.3	3.1			
BAE-30A	30	0.8	5.4	1200*850*1100	G1 1/4	480
		1.0	4.3			
		1.3	3.8			
BAE-37A	37	0.8	6.6	1350*950*1225	G1 1/2	580
		1.0	6.2			
		1.3	5.6			
BAE-45A	45	0.8	8.0	1350*950*1225	G1 1/2	720
		1.0	6.8			
		1.3	5.9			
BAE-55A	55	0.8	10.5	1650*1170*1440	G2	1100
		1.0	8.9			
		1.3	7.7			

Note: A:Air-cooled W:Water-cooled

HSPco since 2008
HAVASAZAN PARS CORPORATION

Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-75A/W	75			1800*1200*1570	G2	1200
		1.0	12.5			
		1.3	9.8			
BAE-90A/W	90	0.8	16.5	1800*1200*1570	G2	1300
		1.0	13.0			
		1.3	12.5			
BAE-110A/W	110	0.8	21.0	2200*1400*1800	DN65	2200
		1.0	17.0			
		1.3	15.0			
BAE-132A/W	132	0.8	23.5	2200*1400*1800	DN65	2500
		1.0	20.6			
		1.3	16.5			
BAE-160A/W	160	0.8	29.7	2730*1710*1950	DN80	2950
		1.0	25.5			
		1.3	21.0			
BAE-185A/W	185	0.8	32.8	2730*1710*1950	DN80	3200
		1.0	29.0			
		1.3	25.0			
BAE-200A/W	200	0.8	34.5	2730*1710*1950	DN80	3400
		1.0	32.5			
		1.3	29.0			
BAE-220A/W	220	0.8	36.3	2970*1700*1900	DN80	4200
		1.0	33.5			
		1.3	29.8			
BAE-250A/W	250	0.8	44.5	3300*2150*2250	DN100	4400
		1.0	36.5			
		1.3	32.5			

Note: A:Air-cooled W:Water-cooled

Single Stage
Screw Air Compressor

Single Stage
VARIABLE FREQUENCY Air Compressor

Product Features:

01 Developed by UK based BAE BAES Rotor Profile

02 Motor energy efficiency exceeds national class 1,energy efficiency class IE5

03 Adopting IP65 oil cooled permanent magnet motor,no fan energy consumption,ultra high protection level

04 Customized SKF bearings with a design life of over 50,000 hoursand ceramic plating for highpower motors

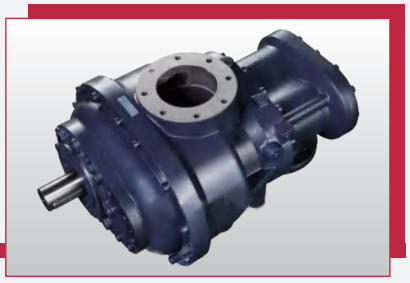
05 Permanent magnet motor permanent magnet model:38UH

06 Tubular water-cooled cooler with high external film heat transfer coefficient and strong anti pollution ability

Core Technology

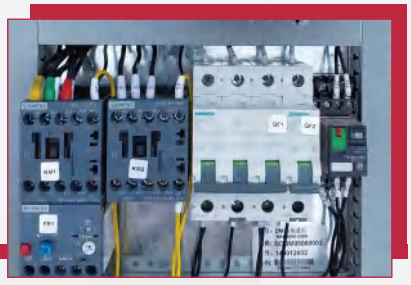
01 High Quality Air Compressor Element

- Our air end selection of 40CrA high-quality alloy steel, with wearresistant and corrosion-resistant and other high-quality performance.
- Adoption of BAE Group R&D BAES rotor profile,using the third generation of 5:6 asymmetric tooth rotor,highspeed operation of balanced force,the rotor tangential speed of≤35m/s,rotor clearance to maintain the gap between 0.003INCH, the same power section of the element can be energy-saving 10-15%.
- The rotor adopts CNC 5-axis rotor grinding machine,polyhedral and curved surface machining realizes high precision automated production.



02 Intelligent Control System

- Data detection+visualization AI intelligent control: real-time data monitoring, comprehensive diagnostic reports,can be on multiple equipment joint control AI intelligent calculation,matching,so as to achieve cost reduction and increase efficiency
- Cell phones and computers can show the dynamic screen in real time,easy to operate,for users to create a digital,intelligent air compressor station room



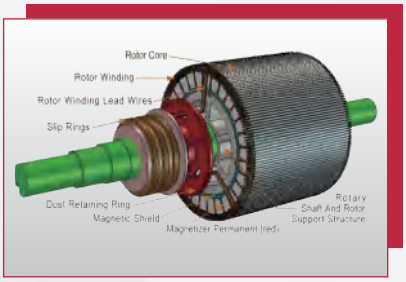
HSPco since 2008
HAVASAZAN PARS CORPORATION

07 Centrifugal cooling fan,using frequency conversion fan,to provide users with energy-saving and efficient cooling system

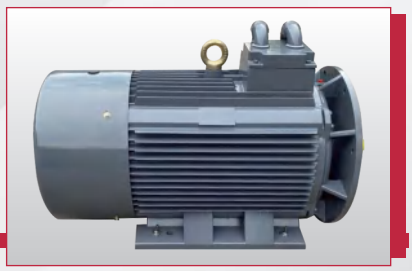
08 we independently designed air intake control combination valve,with air intake,tolerance,drain, stop check function

09 Aluminum plate-fin heat exchange air-cooled cooler,the material is corrosion-resistant aluminum alloy,the cooler material to add a special alloy material to ensure the hardness of the cooler,our customized cooler heat transfer efficiency is greater than the general cooler to 35%, ensure the normal use in the hot weather

03 Permanent Magnet Synchronous Motor



- Due to the different characteristics of the voltage in China and in Europe, the technical staff of our Group visited domestic high-end motor manufacturers that meet the Group's production requirements and standards.
- Ultra-low temperature rise design, the Air compressor element can operate stably under long-term low frequency, the permanent magnet is made of 38UH material, the maximum working temperature can reach 180C, IE5 energy efficiency grade, under the set pressure, the unit can be adjusted by frequency conversion to keep the pressure difference within 0. IMpa which makes the unit run more smoothly and more efficiently during the long-term use.



Single Stage
Screw Air Compressor

04 Oil and Gas Separation System

■ Customized enlargement coefficient of oil and gas barrels, to ensure that the pipeline pressure loss in the minimum degree.

■ Increase the space so that the equipment to play a good heat dissipation effect,stable operation of the equipment.

■ Imported filter material makes the oil content at the outlet of the compressors ≤2PPM.

05 Air Filtration System

■ Custom U.S. filter media made from a cellulose synthetic blend Extremely fine fiber filter.

■ Media prepared by electrostatic spinning process using the latest technology to achieve continuous, elastic synthetic fibers of 0.2-0.3micron.

■ Up to 99.99% filtration efficiency can be achieved, and the extremely fine fiber technology keeps dust on the surface rather than inside, increasing the life span and reducing the required energy consumption.

06 Frequency Converter

■ Customized high-performance vector control inverter of Huichuan/ABB brand Customized inverter.

■ Speed control can start at zero speed and adjust the acceleration curve evenly according to the user's needs.

■ With the option of linear acceleration, S-shaped acceleration or automatic acceleration.

Comparison of power saving effect between 75KW screw compressor and our high-efficiency frequency conversion screw compressor:
(Based on an average of 8,000 hours of operation per year):

Screw Compressor	Screw Compressor With External Inverter	Ordinary Permanent Magnet Frequency Conversion Screw Air Compressor	BAE permanent magnet frequency conversion screw air compressor
570,000 KW	480,000 KW	412,000KW	390,000KW

BAE High-efficiency Frequency Conversion Screw Air Compressor And General External Frequency Converter Air Compressor Compared To The Annual Electricity Savings:480,000kw-390,000kw=***90,000kw***

HSPco since 2008
HAVASAZAN PARS CORPORATION

Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-7PM	7.5	0.8	0.4-1.2	700*600*860	G1/2	180
		1.0	0.3-1.0			
		1.3	0.2-0.8			
BAE-11PM	11	0.8	0.7-1.9	1000*750*1070	G3/4	300
		1.0	0.6-1.6			
		1.3	0.3-1.1			
BAE-15PM	15	0.8	1.0-2.4	1000*750*1070	G3/4	330
		1.0	0.9-2.1			
		1.3	0.7-1.8			
BAE-22PM	22	0.8	1.8-3.8	1100*850*1110	G1	430
		1.0	1.5-3.2			
		1.3	1.2-2.5			
BAE-30PM	30	0.8	2.4-5.3	1100*850*1110	G1	460
		1.0	2.0-4.4			
		1.3	1.9-3.5			
BAE-37PM	37	0.8	3.4-6.8	1200*970*1350	G11/2	610
		1.0	2.9-6.0			
		1.3	2.2-4.8			
BAE-45PM	45	0.8	4.0-8.0	1200*970*1350	G11/2	720
		1.0	3.5-7.5			
		1.3	3.0-6.5			
BAE-55PM	55	0.8	5.0-10.5	1500*1200*1550	G2	950
		1.0	4.5-9.0			
		1.3	3.6-7.8			
BAE-75PM	75	0.8	7.0-13.5	1500*1200*1550	G2"	970
		1.0	6.2-12.5			
		1.3	5.2-10.2			

Note: **PM:**Permanent Magnet Frequency Conversion

Single Stage
Screw Air Compressor

Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-90PM	90	0.8	6.6-16.5	1800*1200*1570	G2"	1050
		1.0	6.0-15.5			
		1.3	5.5-13.8			
BAE-110PM	110	0.8	9.0-21.5	2200*1400*1800	DN65	1850
		1.0	6.8-17.2			
		1.3	5.5-15.5			
BAE-132PM	132	0.8	9.6-23.6	2200*1400*1800	DN65	1900
		1.0	9.2-21.6			
		1.3	6.7-17.5			
BAE-160PM	160	0.8	12.0-29.8	2730*1710*1950	DN80	2700
		1.0	10.5-26.4			
		1.3	9.0-22.0			
BAE-185PM	185	0.8	13.5-33.2	2730*1710*1950	DN80	3000
		1.0	13.0-31.5			
		1.3	11.0-26.5			
BAE-200PM	200	0.8	13.8-34.5	2730*1710*1950	DN80	3200
		1.0	14.0-33.0			
		1.3	12.0-27.8			
BAE-220PM	220	0.8	16.3-36.3	3250*2000*2100	DN100	3600
		1.0	15.2-33.5			
		1.3	14.5-29.8			
BAE-250PM	250	0.8	18.0-44.0	3250*2000*2100	DN100	4000
		1.0	16.9-38.5			
		1.3	13.0-34.0			
BAE-280PM	280	0.8	19.0-46.8	3250*2000*2100	DN100	4000
		1.0	18.0-42.9			
		1.3	15.0-36.0			

Note:**PM:**permanent Magnet Frequency Conversion

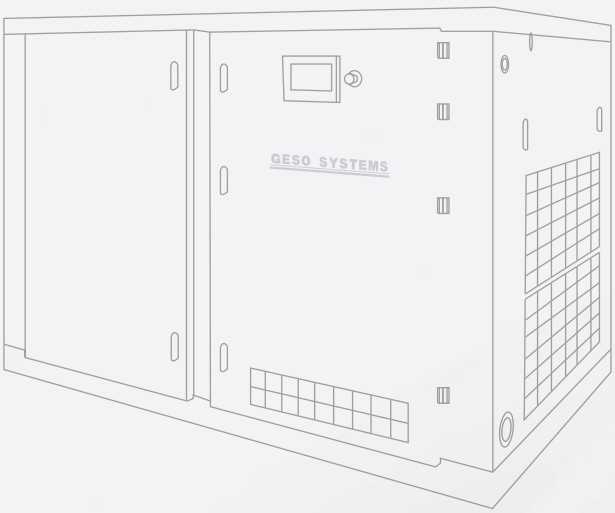
HSPco since 2008
HAVASAZAN PARS CORPORATION

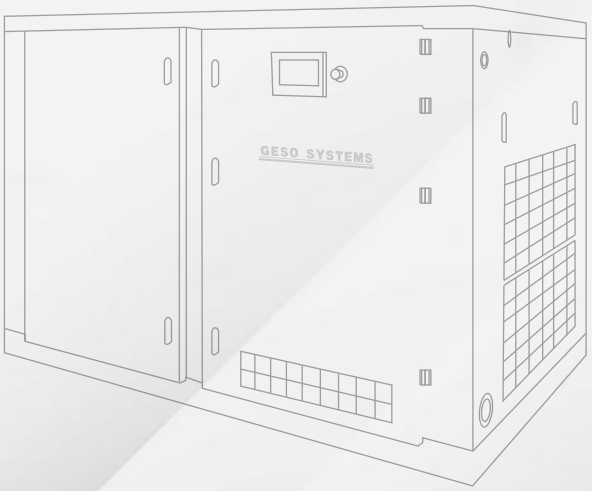
Technical Parameter

Model	Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-15PMS	15	0.8-1.0	0.6-2.4	920*720*1025	G3/4	260
BAE-15PMS+	15	0.8-1.0	0.6-2.7	1100*690*915	G1"	300
BAE-22PMS	22	0.8-1.0	0.9-3.7	1200*850*1100	G1"	340
BAE-22PMS+	22	0.8-1.0	0.9-3.8	1150*1100*1300	G1 1/4"	370
BAE-37PMS	37	0.8-1.0	1.7-6.8	1350*950*1225	G1 1/2"	490
BAE-37PMS+	37	0.8-1.0	1.7-6.8	1300*1150*1500	G1 1/4"	740
BAE-55PMS	55	0.8-1.0	2.6-10.5	1650*1170*1440	G2"	920
BAE-55PMS+	55	0.8-1.0	2.6-10.5	1850*1350*1750	G2"	1050
BAE-75PMS	75	0.8-1.0	5.2-13.0	1800*1200*1570	G2"	980
BAE-75PMS+	75	0.8-1.0	5.2-13.0	1850*1350*1750	G2"	1450

Note: **PM:** Permanent Magnet Frequency Conversion
S: Ultra Efficient And Energy-saving
+: Oil Cooling

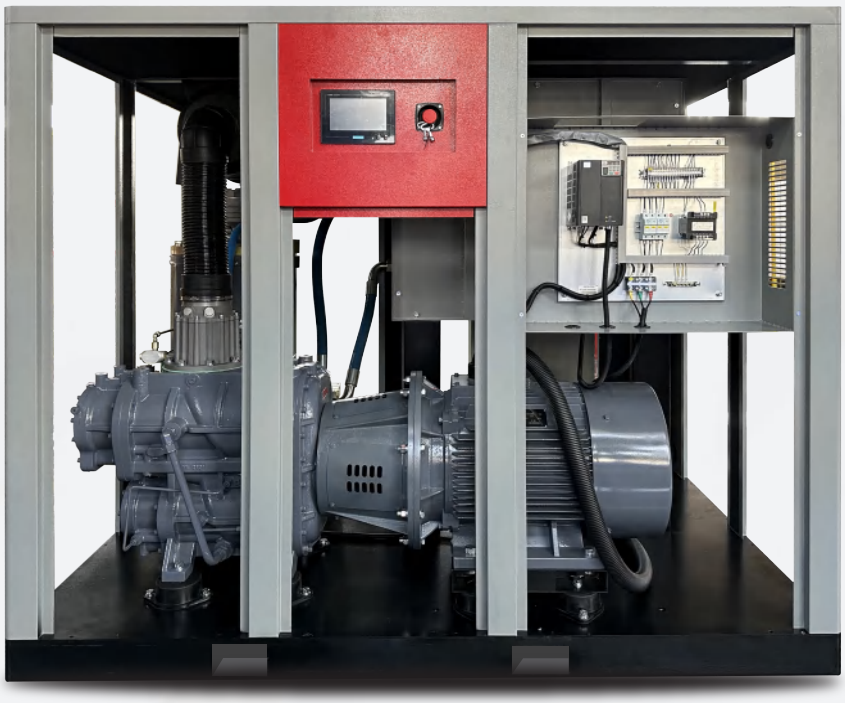
The Company Has The Right To Change The Design For The Continuous Improvement Of The Products,and The Parameters Will Be Changed Without Prior Notice.





Two Stage Rotary
screw air compressor

TWO-STAGE FIXED
Frequency Rotary Screw Air Compressor



Two-stage compression mainframe adopts two sets of screw rotors of different sizes,and uses reasonable pressure distribution to reduce the compression ratio at each working time.

Low compression ratio,there are two advantages → Firstly,Reduce theinternal leakage of the air compressor and improve volumetrie effieieney + Secondly. it greatly reduces the load of bearings improves the life of bearings and prolongs the life of the host machine

Two-stage compression screw air compressor operation process:

Initial step
Nature's air enters through the air compressor air filter into the first stage rotor for compression,in the compression chamber with a small amount of lubricating oil,and at the same time the mixed gas is compressed to the pressure between the first stage.

Second step
The compressed air enters the cold channel and comes into contact with a large amount of oil mist,thus greatly reducing its temperature and cooling it down ,After the compressed air then into the second stage rotor, It is compressed to the exhaust pressure and then discharged through the exhaust outlet to complete the whole compression process.

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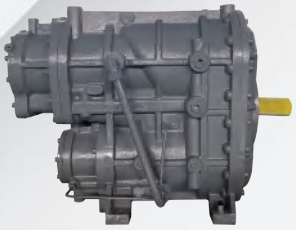
DESCRIPTION



01 Two Stage Air Compressor Element

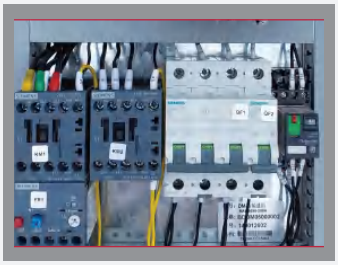
The material of the air compressor element is 40CrA high quality alloy steel,which has the high quality performance of wear-resisting and corrosion-resisting.
Adopting BAES rotor profile developed by BAE Group, adopting the third generation 5:6 asymmetric tooth rotor, balanced at high speeds Force, rotor tangential speed≤35m / s, the gap between the rotor to maintain 0.003INCH, the same power section air end can save energy 10-15% Self-developed isothermal curve design, improve isometric compression performance, for different oil paths to achieve interstage cooling, improve the adiabatic efficiency; by reducing the compression ratio to reduce the amount of leakage, close to the isothermal compression, compared to the single-stage compression efficiency by 13-15%

02 High-efficienc

YE3 energy efficiency grade motor stator using die-casting silicon steel plate, diecasting length in the motor of 20%-40%. significantly improve motor performance, motor winding with F-class insulation 155 C, B-class temperature rise assessment using IP55 or more protection level. Customized SKF bearings to reduce noise and heat generation and ensure product reliability

03 High-efficiency Intake Valves

Self-designed air inlet control combination valve, with air inlet, tolerance adjustment, discharge, stop function, accurate flow rate calculation, to ensure that the air inlet pressure loss is small.
Load when power is gained, unload when power is lost, with a normally closed valve to prevent air from entering the air end during startup, and smooth low current startup.
The inlet valve is equipped with an inlet bypass valve to prevent a high degree of vacuum in the air end when the compressor is starting up and unloaded, which affects the atomization of lubricating oil.



04 Smart Control Systems

Data detection + visualization to reduce operating costs,Real-time data monitoring, comprehensive diagnostic reports,can be more than one device joint control. Realize AI intelligent calculation, matching, cell phones, computers can show the dynamic screen in real time.Simple operation, creating a digital, intelligent air compressor station for users.
Thus realizing cost reduction and efficiency increase

05 Cooling System

Customized aluminum plate-fin heat exchanger air-cooled cooler, corrosion-resistant aluminum alloy material, the cooler material to add special alloy materials to ensure the hardness of the cooler Customized tube water-cooled cooler, heat transfer efficiency is 35% higher than the general cooler, to ensure the user's normal use in high temperature weather, the outside of the tube outside the membrane heat transfer coefficient is high, anti-pollution capacity is strong Adopting centrifugal frequency conversion fan to provide users with energy-saving and efficient cooling system 15

Two Stage Rotary
screw air compressor

Technical Parameter

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-30A+	30	0.8	6.4	1500*950*1225	G1 1/2	800
BAE-37A+	37	0.8	8.5	1500*950*1225	G1 1/2	900
		1.0	6.4			
BAE-45A+	45	0.8	10.0	1650*1170*1440	G2"	1200
		1.0	7.9			
		1.3	6.3			
BAE-55A+	55	0.8	13.1	1800*1200*1580	G2"	1500
		1.0	10.4			
		1.3	8.9			
BAE-75A+	75	0.8	16.4	1800*1200*1580	G2"	1600
		1.0	13.7			
		1.3	12.3			
BAE-90A+	90	0.8	20.2	2200*1400*1800	DN65	2200
		1.0	17.5			
		1.3	16.0			
BAE-110A+	110	0.8	24.1	2200*1400*1800	DN65	2300
		1.0	19.9			
		1.3	17.8			
BAE-132A+	132	0.8	28.0	2730*1710*1950	DN80	3200
		1.0	24.0			
		1.3	20.9			
BAE-160A+	160	0.8	34.2	2730*1710*1950	DN80	3500
		1.0	30.7			
		1.3	28.9			

Note:**A:** air-cooled **+:**two-stage compression

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Technical Parameter

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-185A+	185	0.8	39.3	3250*2000*2100	DN100	4800
		1.0	34.7			
		1.3	32.1			
BAE-200A+	200	0.8	42.8	3250*2000*2100	DN100	4900
		1.0	40.6			
		1.3	35.0			
BAE-220A+	220	0.8	47.5	3250*2000*2100	DN100	5200
		1.0	43.0			
		1.3	37.5			
BAE-250A+	250	0.8	52.8	3250*2000*2100	DN100	5500
		1.0	48.1			
		1.3	43.0			
BAE-280A+	280	0.8	58.1	3770*2150*2250	DN125	6800
		1.0	52.4			
		1.3	48.0			
BAE-315A+	315	0.8	66.2	3800*2300*2300	DN125	7000
		1.0	58.0			
		1.3	50.8			
BAE-355A+	355	0.8	73.2	3800*2300*2300	DN125	8500
		1.0	65.4			
		1.3	55.0			
BAE-400A+	400	0.8	84.0	3800*2300*2300	DN125	9000
		1.0	72.0			
		1.3	63.0			

Note:**A:** air-cooled **+:**two-stage compression

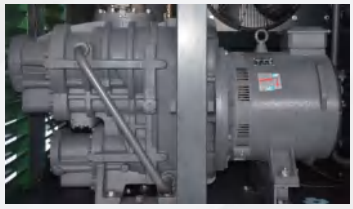
Two Stage Rotary
screw air compressor

TWO-STAGE PERMANENT MAGNET
Frequency Conversion Rotary Screw Air Compressor

Product features

Two-Stage Rotary Screw Air End

- The materlal of the alr compressor element is 40CRA high quality alloy steel, which has the high quality performance of wear-resisting and corrosion-resisting.
- Adopting the third generation of BAES 5:6 asymmetric tooth rotor profile developed by the Group, balanced force during high-speed operation, rotor tangential speed is 35m/s, rotor clearance between the rotors to maintaln 0.003INCH, the same power section air end can save energy 10-15%
- CNC 5-axis rotor grinding machines are used in the production of our rotors, and the machining of polyhedra and curved surfaces is automated with high precision.
- Self-developed isothermal curve design, improve isometric compression performance,for different oil paths to achieve interstage cooling, improve the adiabatic efficiency.through the reduction or compression ratio to reduce Leakage, near isothermal compression,13-15% efficiency improvement over single stage compression.



Permanent Magnet Variable Frequency Motor

- Due to the different voltage characteristics in China and Europe, Our Group's technicians have examined and selected domestic high-end motor manufacturers that met the Group's production requirements and standards to customize their products.
- Ultra-low temperature rise design, air end can be stable operation in long-term lower frequency.permanent magnet selectlon of 38UH materlal, the highest working temperature up to 180 C, IE5 energy efficlency level, in the set pressure, the unit through frequency adjustment, to maintain the pressure difference within 0.1Mpa,in the long-term use of the process of smoother operation, more energy efficient!

Energy Saving With Dual Inverter

- The motor and fan are controlled by frequency conversion regulation, thus making the oil temperature of the air end constant and the running speed lower, and enhancing the service life of the mainframe.
- Customized high-performance vector control frequency converter of Huichuan/ABB brand is used,the constant tempera ture of the unit is set at about 82°C, and the constant pressure accuracy is controlled at 0.01 MPA.
- Customized frequency conversion speed control can be started at zero speed and adiusted uniformly according to the user's needs.
- Linear acceleration, S-acceleration or automatic acceleration can be selected.

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Cooling Fans

- Adopting frequency conversion centrifugal cooling fan, the noise is much lower than axial fan. providing users with energy-saving and environmentally friendly high-efficiency cooling system.
- Unique design: Utilizing the high-speed impeller to accelerate, decelerate and change the flow direction of the gas to achieve the cooling effect.
- Intelligent frequency conversion design: it can adjust the speed by itself according to the temperature of the cooler to realize energy saving and emission reduction.

High Quality Filtration Systems

- European standard customized oil/gas separator reduces exhaust gas oil content ≤ 2PPM and reduces differential pressure.
- The alr filter is made of cellulose synthetk mlxture, using the latest technology through the electrostatic spinning process to prepare very fine fiber media, which can achieve 0.2-0.3 micron continuous elasticity of synthetic fibers, the fliter media is uniform and the number of orifices is more than that of cellulose filter media, thus improving the fitration efficiency and dirt-holding capacity.
- The use of two-component fibers provides strong bonding capabilities, and the resin-free filter media developed by us offers lower resistance to fluids and a longer life.

High-efficiency Intake Valve

- Self-designed air intake control valve combination, with air intake, capacity adjustment discharge, stopping The precise flow rate calculation ensures low pressure loss of air intake.
- Adopting normally closed type valve to prevent the air from entering the air end during startup low current startup smoothly.
- The valve is normally closed to prevent air from entering the air end during startup, and the low-current startup is smooth.The air inlet valve is equipped with an air inlet bypass valve to prevent the air compressor from entering the air end during startup and no-load.High vacuum inside the compressor prevents the lubricant from atomizing.

Intelligent Control - Remote Start-stop System

- Data detectlon + wisuallzatlon to reduce operating costs
- Real-time data monitoring. comprehenslve dlagnostlc reports, jolnt control of multiple devices, Al intelligent calculation and matching. thus realizing Reduce cost and increase efflclency
- Cell phones and computers can display dynamic images, easy to operate, and create a digital, intelli gent alr compressor station for users.

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Technical Parameter

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-22FC+	22	0.8	1.5-4.7	1200*850*1100	G1	600
		1.0	1.3-3.8			
BAE-30FC+	30	0.8	2.0-6.5	1500*950*1225	G1 1/2	800
		1.0	1.8-6.0			
		1.3	1.6-5.1			
BAE-37FC+	37	0.8	2.9-8.5	1500*950*1225	G1 1/2	900
		1.0	2.5-7.3			
		1.3	2.2-6.7			
BAE-45FC+	45	0.8	3.3-10.4	1650*1170*1440	G2"	1200
		1.0	2.9-8.4			
		1.3	2.2-6.6			
BAE-55FC+	55	0.8	4.0-13.2	1800*1200*1580	G2"	1500
		1.0	3.0-10.5			
		1.3	2.5-8.8			
BAE-75FC+	75	0.8	5.3-16.8	1800*1200*1580	G2"	1600
		1.0	3.7-13.9			
		1.3	3.6-12.4			

Note: FC: Frequency Conversion +: Two-stage Compression

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Technical Parameter

Model	Moter Power (kw)	Working Pressure (Mpa)	Air Delivery (m^3/min)	Dimensions (mm)	Outlet Pipe Diameter	Weight (kg)
BAE-90FC+	90	0.8	6.0-20.2	2200*1400*1800	DN65	2200
		1.0	5.1-17.3			
		1.3	4.7-16.1			
BAE-110FC+	110	0.8	7.5-24.0	2200*1400*1800	DN65	2300
		1.0	6.0-20.0			
		1.3	5.9-17.8			
BAE-132FC+	132	0.8	9.1-28.2	2200*1400*1800	DN80	2350
		1.0	8.5-24.6			
		1.3	6.9-20.3			
BAE-160FC+	160	0.8	11.4-34.7	2730*1710*1950	DN80	3500
		1.0	11.2-30.8			
		1.3	9.2-28.7			
BAE-185FC+	185	0.8	13.5-39.5	3250*2000*2100	DN100	4800
		1.0	11.7-35.1			
		1.3	10.2-32.5			
BAE-200FC+	200	0.8	14.8-43.1	3250*2000*2100	DN100	4900
		1.0	13.0-40.5			
		1.3	11.2-35.0			
BAE-220FC+	220	0.8	16.2-47.5	3250*2000*2100	DN100	5200
		1.0	14.9-42.8			
		1.3	13.2-37.7			
BAE-250FC+	250	0.8	19.0-53.5	3800*2314*2250	DN125	6900
		1.0	15.2-48.5			
		1.3	14.6-43.5			
BAE-280FC+	280	0.8	22.8-57.0	3800*2300*2300	DN125	6700
		1.0	19.6-49			
		1.3	18.8-47			
BAE-315FC+	315	0.8	24.8-62.0	3800*2300*2300	DN125	7000
		1.0	21.6-54			
		1.3	20.2-50.5			
BAE-355FC+	355	0.8	27.68-73	3800*2300*2300	DN125	8500
		1.0	24-65			
		1.3	21.92-54.8			
BAE-400FC+	400	0.8	32-84/8	3800*2300*2300	DN125	9000
		1.0	27.2-73/10			
		1.3	24.4-61/13			

Note: FC: Frequency Conversion +: Two-stage Compression