

Domestic Office Locations in China

Region:	Province:	Address:
Northeast Region	Heilongjiang Province	Intersection of Republican Road and Shijiao Road, Hulan District, Harbin City,
	Liaoning Province	No. 9-3, Lu Guan Er Jie, Tiexi District, Shenyang City, Liaoning Province.
Eastern China	Shanghai	No. 15, Lane 38, Cao Li Road, Jinshan District, Shanghai, China
	Zhejiang Province	Room 8609, 6th Floor, No.3 Building, Jinjulong Mansion, No.9 Gaohu Road, Jiangning District, Nanjing, Jiangsu Province, China
	Jiangsu Province	Room 306, Building 1, No. 58, Huyang Road, Hushuguan Town, Huqiu District, Suzhou City, Jiangsu Province, China
	Anhui Province	No.1, Heping Road, Development Zone, Chizhou City, Anhui Province
	Shandong Province	1912, East Unit, No.4 Building, Lemeng Center, Huaiyin District, Jinan City, Shandong Province
	Jiangxi Province	East China International Industrial Expo City, Guangzhou Road, Qingyunpu District, Nanchang City, Jiangxi Province
	Fujian Province	One Lane, Qianjin Xijing, G324 National Road, Houxi Town, Jimei District, Xiamen City, Fujian Province.
North China	Beijing	Room 1204, Building 10, Junyue International, Daxing District, Beijing, China
	Tianjin	
	Shanxi Province	
	Hebei Province	Room 204, Unit 2, Building No. 11, Yurongguandi, Shahezi Street, Jiuhuan District, Baotou City, Inner Mongolia Autonomous Region
Central China	Inner Mongolia	
	Henan Province	No. 39, 3F, Greenland Original Sheng International 3C, Jinshui District, Zhengzhou City, Henan Province
	Hubei Province	Room 1304, Unit 1, Building 16, Block B, Vision Cheng, General Road Street, East and West Lake District, Wuhan City, Hubei Province
South China	Hunan Province	No. 268 Wanjiali Road, Yuhua District, Changsha City, Hunan Province.
	Guangdong Province	Room 1504, Tower B, Aoyuan Central Plaza, Jingang Avenue, Nansha District, Guangzhou City, Guangdong Province, China
	Guangxi Province	
Southwest of China	Taiwan Province	
	Chongqing	Building 1801, Line Out City Garden, Yubei District, Chongqing, China
	Tibet	
	Yunnan Province	Science and Technology Innovation Park, No.3 Jingkai Road, Jingkai District, Kunming, China
	Guizhou Province	Building 2, Finance Street, Nanming District, Guiyang City, Guizhou Province
Northwest of China	Sichuan Province	Building 9, Wanjiangfeng Phase II, No. 8 Shangya Road, Gaoxin West District, Chengdu, China
	Shanxi Province	Room 20707, Building 1, Lijun V Times, Cross of Fengcheng 1st Road and Weiyang Road, Weiyang District,
	Qinghai Province	
	Gansu Province	In the yard of Yongding Center Market, Anding District, Dingxi City, Gansu Province, China
	Ningxia Province	No.4 Building, South District, Helan Red River Valley, Yinchuan, Ningxia, China
	Xinjiang Uygur Autonomous Region	No.556, Beijing South Road, New Downtown, Urumqi, Xinjiang Province

GESO SYSTEMS

ShangHai Geso systems industrial PLC
Address: No. 15, Lane 38, Cao Li Road, Jinshan District, Shanghai, China

revision : 202307

Website: www.gesosystems.net
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GESO SYSTEMS

GESO BAE SERIES

LOW PRESSURE SCREW AIR COMPRESSOR



ShangHai Geso systems industrial PLC

- Low pressure rotary screw air compressor
 - 3kgs low pressure rotary screw air compressor P07
 - 5kgs low pressure permanent magnet frequency conversion rotary screw air compressor P08
- Air compressor installation and maintainace P09





Company Profile

Superior Quality and Intelligent Future

Geso is a global aerodynamic systems group of companies, wholly owned by BAE GESO SYSTEMS, headquartered in London, United Kingdom, and a leader in the European gases sector. BAE Systems, the parent company of Geso Group, was founded in 1871 and is committed to the research, development and production of industrial gases. In 2002, BAE Systems set up a representative office in China, importing products from the United Kingdom to China and deploying after-sales service offices in China, and in 2018 BAE Systems established a wholly-owned company "Shanghai Geso systems Industrial PLC". In 2018, BAE Systems set up a wholly-owned company "Shanghai Geso systems Industry Co., Ltd." in Shanghai and invested 11 million U.S. dollars to build an intelligent production and manufacturing center. In R&D, production and market expansion. Our products include energy-saving screw air compressors, nitrogen/oxygen generators, dry oil-free air compressors, water-injected oil-free air compressors, mobile air compressors, process gas compressors, medium and high pressure screw air compressors, centrifugal air compressors, etc., which are widely used in various industrial production. The group has three companies, "Shanghai Geso systems Industry PLC", "Jiangsu Geso Equipment Co. Ltd.", "Shanghai Geso Energy Equipment Co. Ltd." more than 30 branches and offices and more than 200 distributors nationwide, providing high-quality intelligent and energy-saving air compressor system solutions for various industries energy-saving programs to reduce users' cost of use to ensure users' satisfaction and energy-saving effect. We have been selected as one of the top ten brands for three consecutive years by third-party organizations such as China Brand Network. As a global aerodynamic system

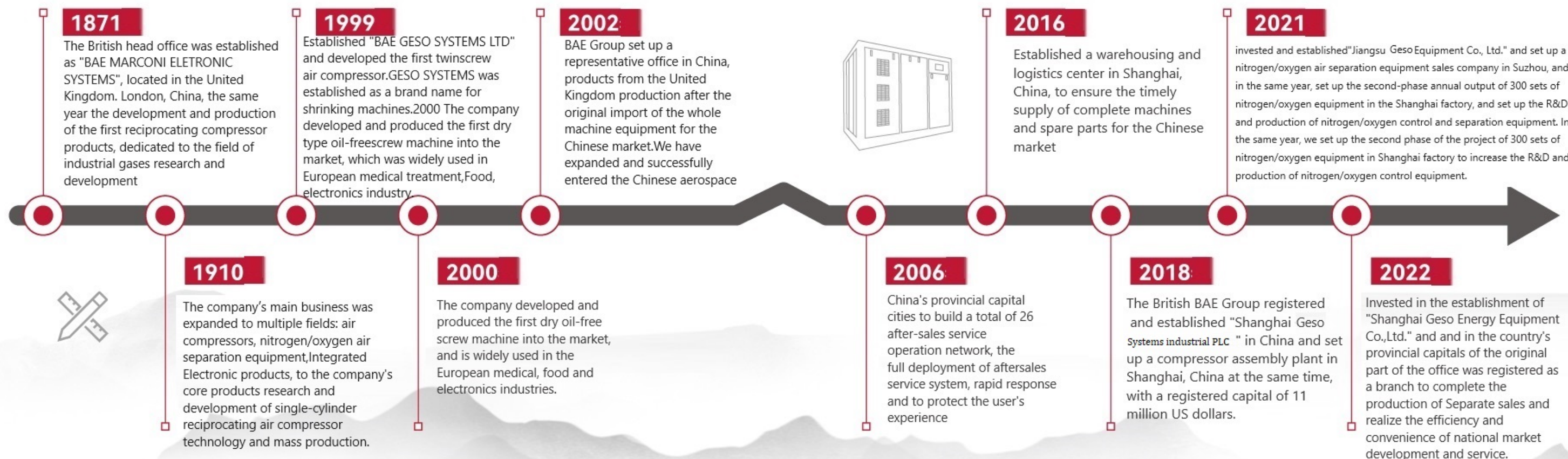


GESO SYSTEMS

Inheriting the advanced technology and production management mode of BAE Systems and combining it with China's market demand in order to ensure the production safety of users, Geso Group strictly follows the product development process of the Group, and each new product undergoes 40 test items and 3,000 hours of durability test to ensure the quality of the products from the source. Selecting IE5 energy-saving motors, ABB electronic control system, and three-stage frequency conversion energy-saving system to reduce energy consumption and CO2 emissions, meanwhile, through the optimized design and lowering the speed of the machine, it saves the cost for the customers and realizes small investment and big power. Self-developed intelligent Internet of Things (IoT) technology realizes convenient interconnected management with air compressors through computers, cell phones and iPads to realize automatic and precise supply and meet the experience of unattended automation. As a wholly foreign-owned enterprise, it is also the authorized production and assembly base of screw compressors for BAE Systems in UK. We have obtained ISO9001 quality system certification, ISO45001 occupational health and safety management system certification, ISO14001 environmental management system certification, certificate 0 oil-free certification, EU CE certification, energy efficiency certification of air compressors, 3A integrity system certification and other certificates, which fully guarantee the safety of users. Through years of high-speed development, Geso Group has service outlets in more than 200 cities across the country, 24-hour service hotline response and Internet warranty service, and thirteen direct spare parts warehouses to provide customers with repair services in a more rapid and timely manner. After-sales service is not limited to the product itself, but also includes compressed air system testing and optimization, air compressor intelligent air supply control, waste heat recovery, frequency conversion, energy-saving piping, cables, construction of turnkey projects and a series of complete set of systematic services. Based on our service concept, we promise lifelong. We are exempt from labor charges, provide free training services for customers, regularly test the data of users' energy efficiency reports, and develop group of companies, we carry the mission of innovation, quality and service. Whether it is energy saving and environmental protection or intelligent, always adhere to the praise of customer experience as the center of the hard working people. Geso, to build a globally recognized brand of fluid machinery, and continue to be the industry leader in high-end energysaving products.



Milestones



Certificates



CE certificate-EMC CERT IND-PC-C2108017 Geso CE certificate-MD



Certificates

Low pressure rotary screw air compressor

If your production equipment only needs 0.2-0.5MPa air pressure, please choose Geso low pressure screw air compressor. If you use a conventional 0.7MPa compressor, it will cause a huge waste of electricity, because every 0.1MPa rise in current consumption is 7% more (theoretical data). Geso has combined the Chinese compressor market with a number of special industries to develop The low-pressure screw compressor series .

They can directly output the air you need. The low compressed air required avoids high pressure and low use, saving you more than 20% of energy consumption.

Geso low pressure element

- **Low pressure (2-5bar) + two-stage air compressor element developed for textile, cement, printing and dyeing, glass and other low-pressure air-using industries, and the intermediate coolant injection curtain design reduces the air temperature and saves compression power consumption.**
- **Smaller compression ratio than single stage, less leakage, lighter bearing load, greatly extending bearing life.**



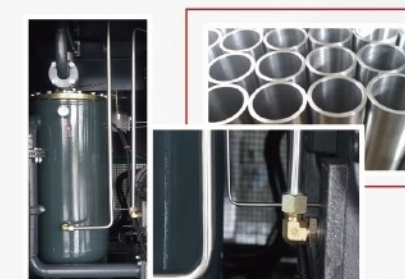
Smart control

- LCD display in English and Chinese, humanized interface design, automatic fault alarm, fault shutdown, maintenance reminder, information storage, timely response to emergencies.
- .Perfect control and detection function, can quickly and conveniently adjust the unit parameters.
- Remote control can be realized, real time experience of multiple joint control, effectively realize energy saving



Three filters for low pressure air compressor

- **Air filter:** enlarged design, the initial filtration area is 1.5 times of the rated air volume, and the air inlet is filtered by air conditioner filter, adapting to complex working conditions.
- **Oil filter:** adopts folding and winding composite process, filtration efficiency High, low pressure loss and low oil content in the outgoing gas.
- **Customized oil and gas separation system:** customized enlarged oil and gas separation cylinder and oil and gas separation core to ensure clean air supply and improve quality.
- **Piping system:** large exhaust pipe and oil pipe, optimize the air pipeline, reduce pressure loss and power consumption.
- **Intake valve:** low pressure special intake valve, made of aluminum alloy with larger cylinder, easier to open, fluorine rubber school check seal ring, good sealing effect.



Choose the industry's customized low-pressure air compressor energy-saving solutions to easily recover the cost of purchasing a machine

With 40m³/min exhaust demand, according to 360 days a year, 24 hours of operation, electricity unit price of about 0.17USD for comparison

1、Conventional screw compressor (working pressure: 0.7MPa) requires a power of 250KW. $250\text{KW} \times 360 \times 24 \times 1.2 = 2.592$ million yuan = 365 million USD
 2, Geso low pressure screw air compressor (working pressure 0.3MPa) only need a power 132KW $132\text{KW} \times 360 \times 24 \times 1.2 = 1.3686$ million yuan (about 1927 million USD) Cost of energy-saving use: $259.2 - 136.86 = 1,223,400$ yuan (about 172,309USD)/year

Technical parameter for 3kgs Low pressure rotary screw air compressor

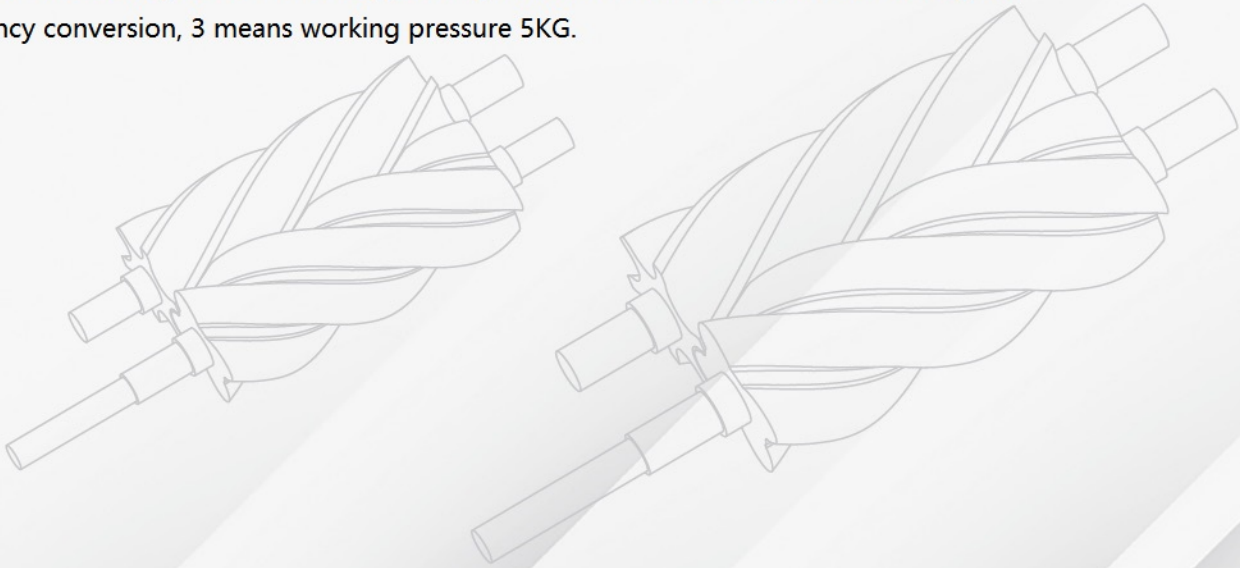
Model	Working Pressure (Mpa)	Air Delivery (m³/min)	Power (kw)	speed (r/min)	Dimensions (mm)			Weight (kg)	Outlet Pipe Diameter
					(L)	(W)	(H)		
BAE-22LPM3	0.21-0.3	1.80-6.45	22	3300	1450	1050	1350	1350	DN50
BAE-37LSPM3	0.21-0.3	3.35-11.55	37	3100	1950	1200	1700	1450	DN65
BAE-55LSPM3	0.21-0.3	5.02-17.20	55	1480	2200	1450	1800	2200	DN80
BAE-55LPM3	0.21-0.3	4.60-15.78	55	2700	2200	1450	1800	1850	DN80
BAE-75LSPM3	0.21-0.3	7.15-24.20	75	2100	2950	1800	2000	2850	DN125
BAE-75LPM3	0.21-0.3	6.00-20.50	75	2980	2950	1800	2000	2000	DN125
BAE-90LSPM3	0.21-0.3	8.80-30.00	90	1480	2950	1800	2000	4100	DN125
BAE-90LPM3	0.21-0.3	7.20-24.20	90	2970	2950	1800	2000	3750	DN125
BAE-110LSPM3	0.21-0.3	10.80-36.50	110	1800	2950	1800	2000	4700	DN125
BAE-110LPM3	0.21-0.3	9.60-32.30	110	2950	2950	1800	2000	4100	DN125
BAE-132LSPM3	0.21-0.3	14.00-47.60	132	1490	3450	2100	2300	5100	DN150
BAE-132LPM3	0.21-0.3	11.30-37.90	132	2700	2950	1800	2000	4900	DN125
BAE-160LSPM3	0.21-0.3	15.60-52.50	160	1650	4300	2300	2600	6300	DN200
BAE-160LPM3	0.21-0.3	13.00-42.80	160	2950	3450	2100	2300	4900	DN150
BAE-185LSPM3	0.21-0.3	19.00-63.80	185	2000	4300	2300	2600	6900	DN200
BAE-200LSPM3	0.21-0.3	21.00-70.20	200	2300	4300	2300	2600	8100	DN200

Note: L: Low-voltage series S: Energy-saving series PM: PM means permanent magnet frequency conversion, 3 means working pressure 3KG.

Technical parameter for 5kgs low pressure frequency convention permanent magnet rotary screw air compressor

Model	Working Pressure (Mpa)	Air Delivery (m³/min)	Power (kw)	speed (r/min)	Dimensions (mm)			Weight (kg)	Outlet Pipe Diameter
					(L)	(W)	(H)		
BAE-55LSPM5	0.4-0.5	4.30-14.50	55	1480	2200	1400	1800	3600	DN65
BAE-75LSPM5	0.4-0.5	5.80-19.40	75	1480	2400	1550	1700	3800	DN65
BAE-90LSPM5	0.4-0.5	7.20-24.20	90	1480	3100	1850	2050	3900	DN80
BAE-110LSPM5	0.4-0.5	8.10-27.50	110	1480	3100	1850	2050	4300	DN80
BAE-132LSPM5	0.4-0.5	10.20-34.50	132	1480	3550	2200	2300	5000	DN125
BAE-160LSPM5	0.4-0.5	12.50-42.00	160	1480	3550	2200	2300	6000	DN125
BAE-200LSPM5	0.4-0.5	15.60-52.40	200	1480	4100	2300	2600	7900	DN150
BAE-220LSPM5	0.4-0.5	17.20-58.00	220	1480	4100	2300	2600	8100	DN150
BAE-250LSPM5	0.4-0.5	18.90-63.20	250	1480	4100	2300	2600	8200	DN150
BAE-280LSPM5	0.4-0.5	22.30-74.80	280	1480	4200	2400	2700	8400	DN150

Note: L: Low-voltage series S: Energy-saving series PM: PM means permanent magnet frequency conversion, 3 means working pressure 5KG.



Air compressor installation and maintenance

01 Air compressor installation requirements

Low dust, no harmful gases, and maintain a well ventilated environment.

If the air compressor room is not well ventilated, the following situations may occur:

- High temperatures

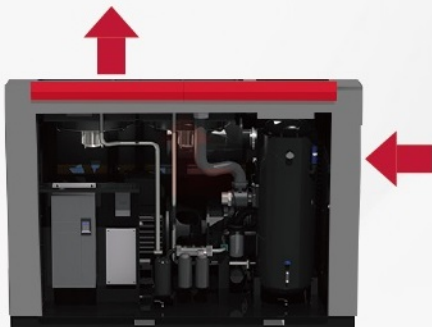
1 in air compressor rooms
- High temperature

2 of air compressor unit
- Frequent jumps of

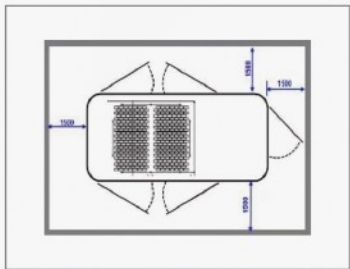
3 air compressor
- High temperature

4 coking of lubricating oil
- Affects the main engine, which leads to the degradation of air compressor performance

5

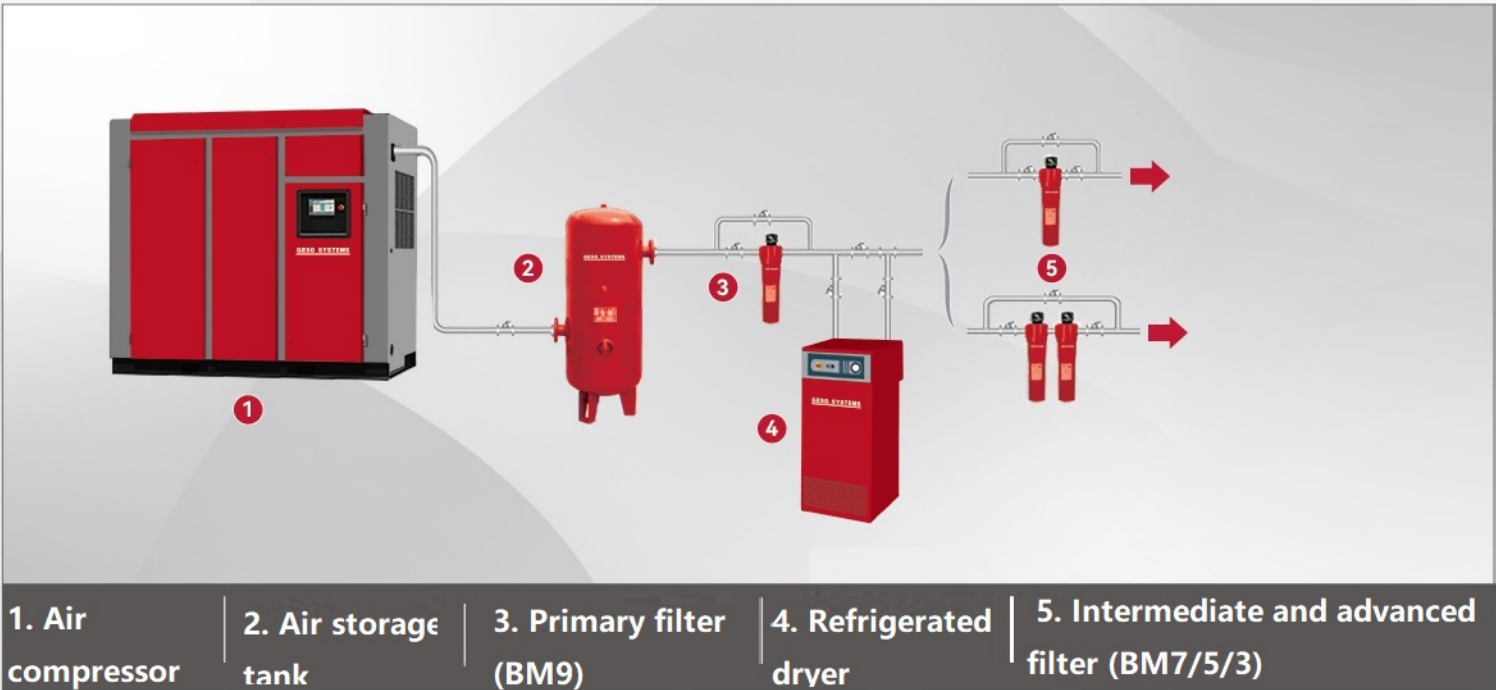


Leave enough space for easy inspection and maintenance (distance between air compressor and wall or other equipment ≥1~1.5m)



02 Layout of the air compressor system

Air compressor → gas storage tank → primary filter (BM9) → cold dryer → intermediate and advanced filters (BM7/5/3)



03 Air compressor maintenance/safety

- > Attentive

Comprehensive and caring equipment quality commitment to protect your production safety and experience. (Commitment to the whole machine warranty of one year, the element warranty of five years or 20,000 hours)(whichever comes first) and lifetime maintenance).
- > Be spared worry

Provide professional after-sales service personnel, regular safety inspection and maintenance, using high-quality original genuine parts, so that the equipment to use the heart.
- > Feel relieved

To improve the stability of air compressor operation, ensure the safe operation of the equipment, so that your equipment with peace of mind, Gesuit provides regular preventive maintenance services.



Air compressor parts routine maintenance cycle

No.	Maintenance content	Maintenance cycle
1	Measurement Temperature / Condition Monitoring	2,000-3,000 hours or six months
2	Replacement of air and oil filters	
3	Replacement of rotor lubricant	
4	Add motor grease	
5	Adjusting belt tension	3,000-4,000 hours or one year
6	Replacement of oil separator	
7	Cleaning the outside of the cooler	
8	Check pressure temperature display	
9	High-temperature shutdown function of the test host	7,000-8,000 hours or two years
10	Testing Safety Valves	
11	Intake valve overhaul	
12	Check Valve Maintenance (3)	
13	Oil stop valve overhaul (3)	12,000 hours or three years
14	Minimum Pressure Valve Maintenance	
15	Replace Thermal Oil Bypass Valve (3)	
16	Replacement of belts (1)	
17	Clean inside cooler (1)	20,000 hours or five years
18	Replacement of coupling elastomers	
19	Motor Maintenance	
20	Mainframe overhaul and inspection (1)	

Remarks: (1) is mandatory and (3) is optional.