



SL series low pressure screw compressor

Fusheng stands by your side with total solution of compressors and energy savings.





Pursuit excellence, enrich life

Since Fusheng establishment in 1953, the company always upholds belief of "innovation, pursuing excellent products and services". Design optimization, process rationalization and rapid service are applied with spirit of ISO 9001 and lean manufacture. We firmly believe that "quality can be seen, the process is the key" to manufacture products that meet customer needs to market products in more than 60 countries around the world. Our products are complimented and trusted by users in various industries while crating higher added values.

Diversification, internationalization and customer orientation make our strategy developed from air, refrigerant compressor, golf club head to electronic industry, and further, trade, environmental protection and the promotion of international marketing network is the focus of development. We have manufacture facilities in Taiwan, China (Beijing, Shanghai, Zhongshan), Vietnam, the United States ((Pittsburgh, San Luis), Germany, Spain and India; and branches in major cities in Thailand, Malaysia and Indonesia. Fusheng authorized dealers are all over the world and are capable of providing the highest quality service for our valuable users.

All along, Fusheng continue to strive for excellence to obtain the best products and service qualities to meet customer needs and make this promise brought more people welfare and facilitated industry optimization, improved environment and enriches our life. Proving the ecological environment, you enriched my life.





What reducing valve taken away?

In the past, reducing valve which compresses 7 bar (and above) compressed air to the pressure of 3 ~ 4bar is needed to get 3-4bar compressed air. The compressed air is then delivered to working site; in fact, this is in fact a considerable waste.

Actually, traditional compressor is not suitable for industries that require low pressure compressed air in the world, for example, applications such as textile front-end process and glass blowing. Therefore, Fusheng developed new low pressure screw compressor.



Benefits of low pressure screw compressor

Energy-saving

Compare with traditional compressor, low pressure compressor outputs pressure needed directly and avoids energy loss of over-compression and re-expanding with less leakage. Energy is saved more than 25%; and has high return of investment, is the best choice of low pressure compressed air.

Reliable operation

The entire system runs under low pressure condition with which lowers part stress and heat load; compressor operation becomes more stable with longer service life.

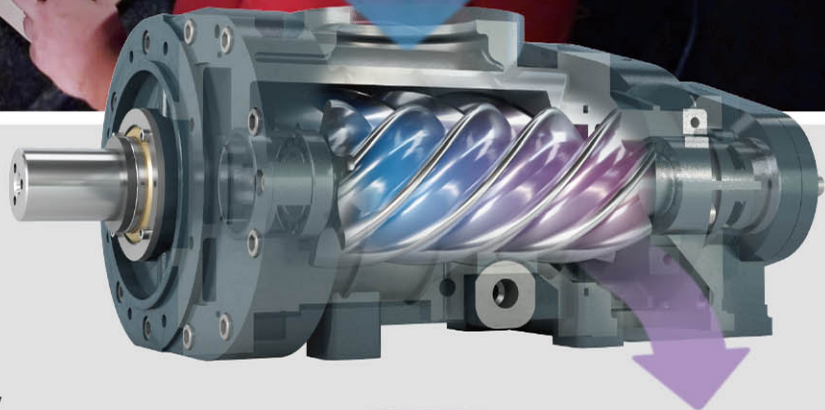
Aligned core, suitable air

Energy saved because of suitability



Airend developed specifically for low pressure applications

- Screw airend designed specifically for low pressure conditions. It outputs low pressure compressed air which suitable for application to obtain the best flow capacity with lower energy consumption.
- Rotor clearance and airend housing are designed precisely. Not only changes exhaust source but all designs meet large flow capacity and low pressure requirements, such as enlarged bearing pedestal.
- Combined axial intake induces air sufficiently, reduces pressure drop and back-leakage; it also improved volumetric efficiency while lower airend running noise and radial unbalanced force, extends service life of airend and bearing.



Fusheng SL series low pressure screw compressor outputs appropriate pressure and saves more than 30% energy compare with conventional compressor.

IE3 high efficiency motor driving

- SA series screw compressor uses IE3 motor to enable higher energy-efficiency performance for more efficiency and energy-saving.



Independent bearing lubrication

- Bearing lubrication uses separated lubrication piping instead of being lubricated by oil vapor from secondary oil return pipe.
- Equipped with a separated oil filter to ensure cleanness of lubricant.



Unique cooling flow field

- Air-cooled models use centrifugal fan which introduces cooler air for cooling. Cooler has great heat exchange area with which the best cooling effect reached. Centrifugal air blower is located at the intake port in the compressor section to vent hot air directly and always maintain lower temperature in compressor while reduce operation noise.
- There is no need to remove air guided cover when clean air-cooled cooler, but removing cover instead.



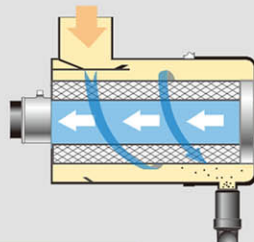
Efficient, environmentally-friendly system design

- System and structure configuration are designed with the principle of reliability, high efficiency and low noise.
- Trivalent blue/white environmental protection zinc connectors are used to seal end faces and eliminate leakage.
- Motor, air filter and electronic control are equipped with independent air intake duct in which silence design is used.
- Non-asbestos gaskets which are high temperature and pressure resistance is used to protect operator health.
- All pipes and ports are enlarged to reduce pressure drop.



Safe, efficient air filter system

- Large particles are filtered by cyclone airflow initially and will not being adsorbed on filter element surface and causing clog. Independent air intake duct design improves air induction density and compressor efficiency.



High efficiency, easy maintenance oil separator system

- Enlarged oil separator design provides larger oil separation area; while having better filter effect, it reducing oppression generated during oil separation process.
- Oil gas tank cover adopts Fusheng patented spindle design which makes replacement of oil separator element become very simple.



Independent oil pump design



- Ensure pneumatic system operation oil pressure which sensed automatically for starting to avoid unnecessary energy waste.

AIM Plus intelligent control system

- Clear user interface
- Remote on/off function
- Low temperature protection lowered to -10°C
- RS485 communication, up to 8 units are controlled in sequence.
- Current monitor for main motor and fan motor
- Supports multiple languages without national boundaries
- IP54 electric protection



SL series low pressure screw compressor 0.3MPa model parameter

Model		SL30 A-3	SL55A-3	SL75A-3 I	SL75A-3 II	SL110A-3	SL160A-3	
Air displacement	m ³ /min	10	17	20	23	34	46	
Exhaust pressure	MPa	0.3						
Cooling method		Air cooling						
Main motor power	kW	30	55	75	75	110	160	
Voltage/frequency	V /Hz	380/50						
Startup method		Y - Δ						
Dimensions	Length	mm	2180	2740	2900	2900	3520	4200
	Width	mm	1330	1710	1860	1860	2290	2250
	Height	mm	1850	1725	1945	1945	2030	2300
Weight	kg	1720	3500	4000	4100	5000	6500	

SL SERIES

SL series low pressure screw compressor



Cloud platform (optional)

Compressor Internet management system of Cloud platform realized integration of monitoring, fault diagnosis and maintenance. Compressor fault message and operation status are sent to specified professionals in a timely manner via text message and e-mail.



SL series low pressure screw compressor 0.4MPa model parameter

Model			SL37A-4	SL75A-4	SL90A-4 I	SL90A-4 II	SL132A-4	SL200A-4
Air displacement	m ³ /min		10	17	20	23	34	46
Exhaust pressure	MPa		0.4					
Cooling method			Air cooling					
Main motor power	kW		30	55	75	75	110	160
Voltage/frequency	V /Hz		380/50					
Startup method			Y - Δ					
Dimensions	Length	mm	2180	2740	2900	2900	3520	4200
	Width	mm	1330	1710	1860	1860	2290	2250
	Height	mm	1850	1725	1945	1945	2030	2300
Weight	kg		1750	3650	4100	4200	5150	6550



SA series-
Low Pressure Screx Air Compressor

SL30-160

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