



SA⁺⁺ High Efficiency
Energy-saving Series

Two Stage RotaryScrew Air Compressor

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Two Stage Rotary Screw Air Compressor



Pursuing Excellence,
Enriching Life





Fusheng EMS



Smart integrated control system



Analyze key data

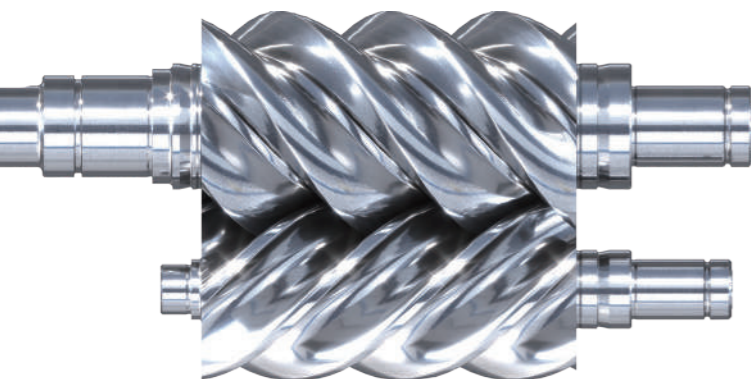


Compliant with ISO 50001 requirements



Enables precise management decisions

Applications



More energy-saving.

More reliable.

More efficient.

A key management tool for

Fusheng EMS Air Compressors, HVAC, and Energy-Consuming Equipment

We take pride not only in our technologies and systems that have achieved higher energy efficiency certifications, but also in our proven expertise as an energy-saving specialist for air compressors, HVAC, and cold chain systems.

With over 70 years of experience in software and hardware integration, Fusheng leverages its extensive industry knowledge and technical strength to bring innovation into every product and service we offer.

Born for Corporate Energy Efficiency

A Comprehensive Equipment Management Solution

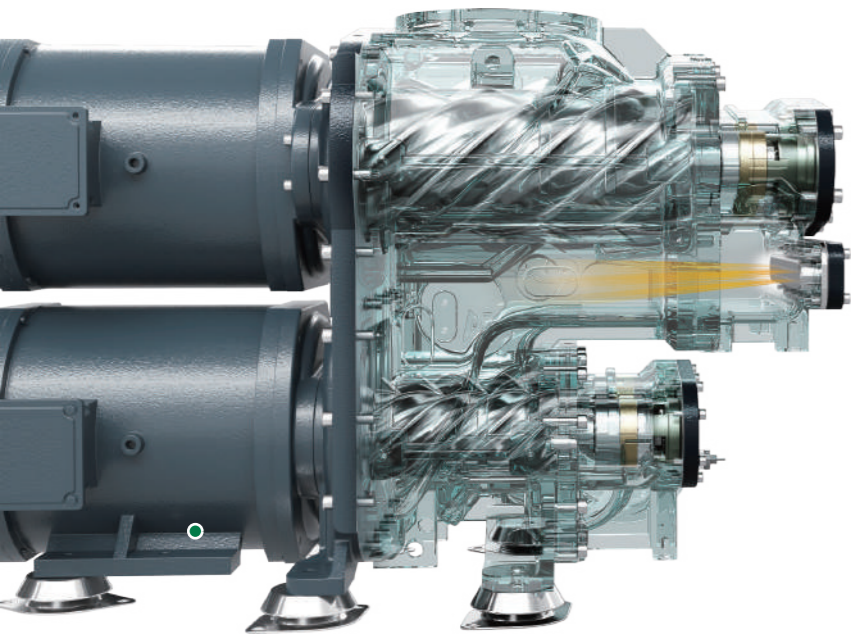
- Abnormal Alarm / Real-Time
- Maintenance Notifications
- Intelligent Control Mechanism
- Historical Trend Analysis
- Power Consumption Overview for Equipment Groups
- Smart Demand Management
- Automated Periodic Reports
- Intuitive HMI Interface

Real-time monitoring across all plant equipment simplifies complex data into smart, visual insights—unlocking hidden energy savings and cutting both operational and management costs.



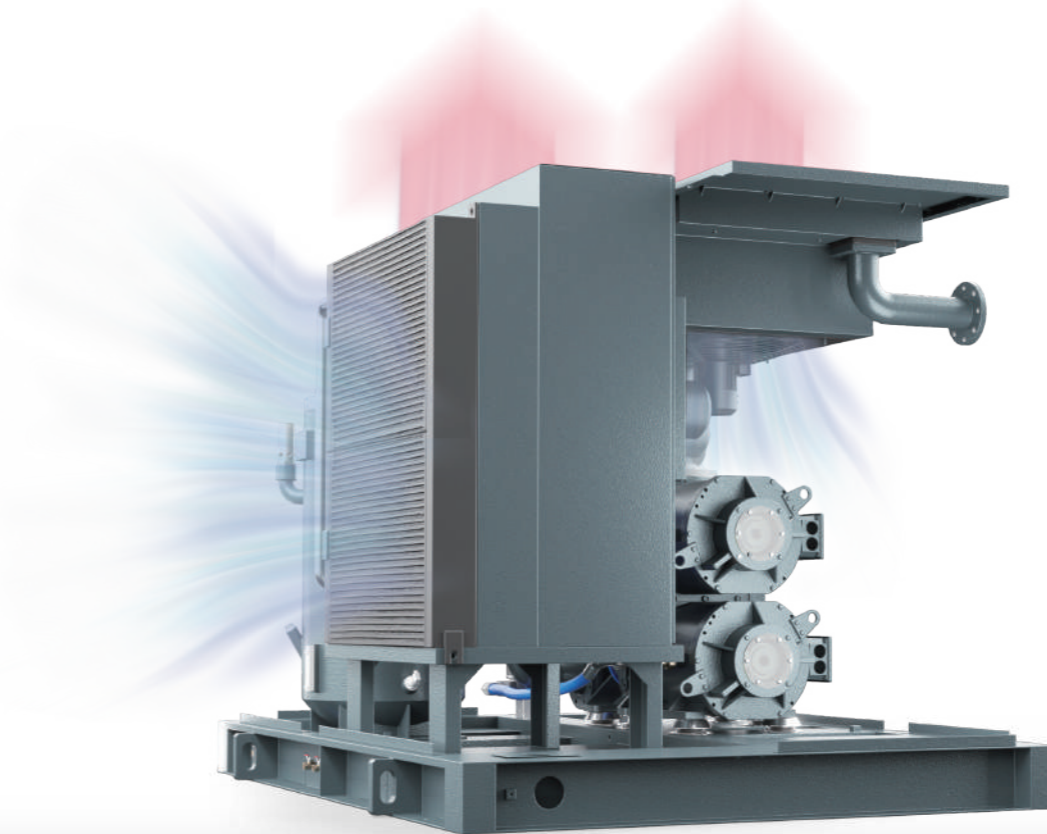
SA++ SERIES

Two Stage Rotary Screw Air Compressor



Airend Interstage Lubrication Certified Patent No. CN 216842129 U

- The optimized interstage lubrication design creates a smoother cooling flow field, achieving superior compression efficiency.
- The coaxial design of the motor and gear ensures higher transmission efficiency while significantly reducing the footprint.



Separated Cooler Certified Patent No. CN 219605535 U

- Breaking the limitations of single coolers, this design optimizes oil temperature while achieving lower compressed air outlet temperatures.
- The air-cooled model uses a centrifugal fan to directly draw in cooler external air and forcibly expel hot air inside the unit, maintaining a lower internal temperature.
- The water-cooled model features a robust shell-and-tube cooler with a straight-through tube design, resulting in lower pressure drop and easier cleaning.

High-efficiency oil-cooled motor drive Certified Patent No. CN 111963427 B

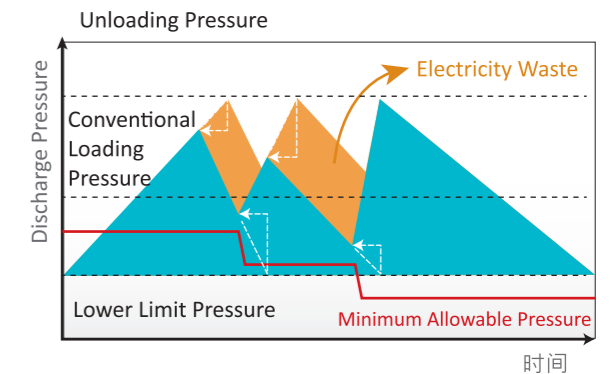


IE4 Motor Power Frequency Model, IP66, IE4 Oil-cooled Induction Motor
IE5 Motor Inverter Model, IP66, IE5 Oil-cooled Permanent Magnet Inverter Motor

Load in advance above the minimum allowable pressure, and unload in advance at an appropriate cycle.

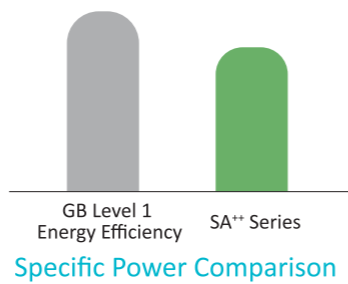
Intelligent Pressure Band Certified Patent No. CN 115324896 B

- Through intelligent computation, accurately match the required air demand, reduce unnecessary pressure margins, and save electricity costs.



Upgraded, Higher Energy Efficiency

- Optimized injection design reduces the resistance of the injected liquid while maximizing the cooling effect. Combined with the high-efficiency motor, the entire compressor unit achieves better specific power performance.



Up to 20% Smaller Footprint

- With a smarter and more efficient layout, the footprint is significantly reduced compared to previous models—while still allowing sample space for maintenance and service access.



Multi-layer Temperature Protection Certified Patent No. CN 212615255 U

- Multi-layer temperature protection ensures greater reliability, reduces maintenance costs, and speeds up repair times.
- Fusheng's specially designed shaft barrel cover allows quick replacement of the oil fine separator element.

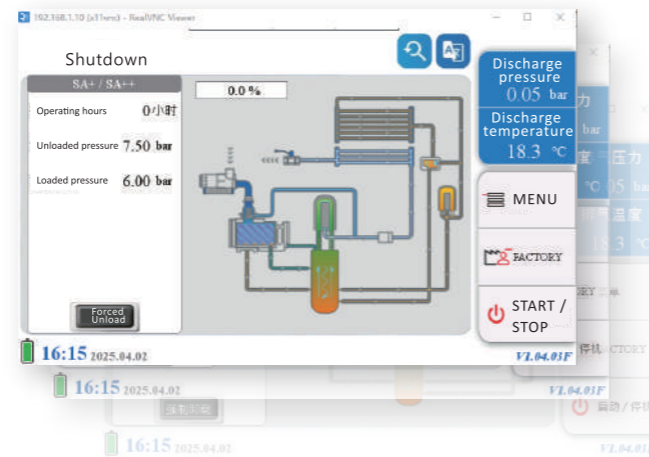


SA++ SERIES

Two Stage Rotary Screw Air Compressor

Intelligent Controller

- Intuitive and multilingual user interface for effortless operation
- Enhanced anti-interference performance ensures stable control
- Remote start/stop capability for flexible system management
- Built-in CAN bus communication interface for seamless integration



Enables smart IoT control for real-time monitoring of compressor operation



Large color touchscreen design with a user-friendly HMI interface



Intelligent monitoring of key components (motor/inverter)



Standard RS485 communication interface enables sequential control of multiple compressors



- Dual permanent magnet motors with direct drive for both first and second stages. The speed ratio adjustment is more flexible and precise, ensuring stable discharge pressure across the entire system with higher efficiency and energy savings.

- Integrated structure — the oil-cooled permanent magnet motor and the screw air end are perfectly matched, forming a fully sealed unit that reduces mechanical failure rates and wear parts, lowers mechanical noise, and provides higher transmission efficiency.

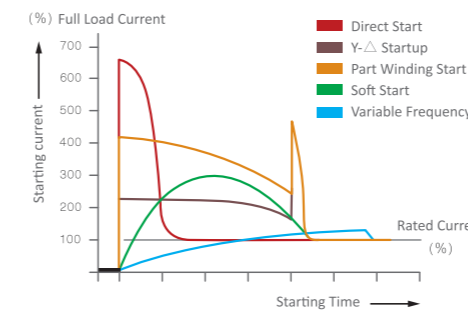
SA++ Series Two-stage Screw Compressor Parameters

Model	Delivery		Working pressure	Motor power	Length	Width	Height	Weight		Air outlet size
	Air-cooled	Water-cooled						Air-cooled	Water-cooled	
	m ³ /min	m ³ /min	MPa	kW	mm	mm	mm	kg	kg	
SA**90*-7T	19.9	19.9	0.7	90	2400	1800	2000	3700	3600	DN80
SA**90*-8T	18.6	18.6	0.8							
SA**90*-10T	15.7	15.7	1.0							
SA**90*-12T	13.8	13.8	1.25							
SA**110*-7T	23.9	23.9	0.7	110	2400	1800	2000	3800	3700	DN80
SA**110*-8T	22.3	22.3	0.8							
SA**110*-10T	19.3	19.3	1.0							
SA**110*-12T	16.8	16.8	1.25							
SA**132*-7T	29.0	30	0.7	132	2800	2000	2000	4300	4100	DN100
SA**132*-8T	27.1	28	0.8							
SA**132*-10T	23.4	24.5	1.0							
SA**132*-12T	20.5	21.8	1.25							
SA**160*-7T	36.0	37.5	0.7	160	2800	2000	2000	4500	4300	DN100
SA**160*-8T	33.6	34.3	0.8							
SA**160*-10T	29.6	31	1.0							
SA**160*-12T	26.0	27.6	1.25							
SA**200*-7T	45.0	47	0.7	200	2800	2000	2000	6800	6400	DN100
SA**200*-8T	42.0	43	0.8							
SA**200*-10T	37.8	38.8	1.0							
SA**200*-12T	33.0	35	1.25							
SA**250*-7T	57.0	59	0.7	250	2800	2000	2000	7000	6600	DN100
SA**250*-8T	53.0	55	0.8							
SA**250*-10T	47.0	49.8	1.0							
SA**250*-12T	42.0	44.8	1.25							

Note: In the table above, the "*" in the model represents the cooling method. When "*" is "A," it indicates an air-cooled model; when "*" is "W," it indicates a water-cooled model.

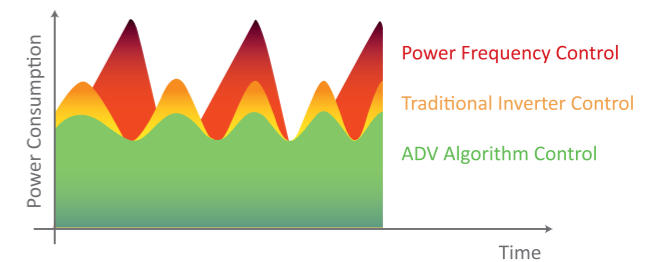
Variable frequency startup

Soft startup with variable frequency, smooth linear operation without the high current of traditional direct startup or star-delta startup. Reduces impact on electrical circuits, significantly extending the service life of electromagnetic contactors, motors, and compressor air end.



More Energy-saving ADV Algorithm

The unique ADV algorithm further reduces pressure fluctuations, allowing the compressor to operate closer to the minimum pressure condition, thereby enhancing the energy-saving performance of the inverter.



SAV++ Series Permanent Magnet Inverter Two-stage Screw Compressor Parameters

Model	Delivery		Working pressure	Motor power	Length	Width	Height	Weight		Air outlet size
	Air-cooled	Water-cooled						Air-cooled	Water-cooled	
	m ³ /min	m ³ /min	MPa	kW	mm	mm	mm	kg	kg	
SAV++90*-T	4.14~19.9	4.14~19.9	0.7-1.25	90	2400	1800	2000	3800	3700	DN80
SAV++110*-T	5.04~23.9	5.04~23.9	0.7-1.25	110	2400	1800	2000	3900	3800	DN80
SAV++132*-T	6.15~29.0	6.54~30.0	0.7-1.25	132	2800	2000	2000	4400	4200	DN100
SAV++160*-T	7.80~36.0	8.28~37.5	0.7-1.25	160	2800	2000	2000	4600	4400	DN100
SAV++200*-T	9.90~45.0	10.5~47.0	0.7-1.25	200	2800	2000	2000	7250	6850	DN100
SAV++250*-T	12.6~57.0	13.4~59.0	0.7-1.25	250	2800	2000	2000	7550	7150	DN100

Note: In the table above, the "*" in the model represents the cooling method. When "*" is "A," it indicates an air-cooled model; when "*" is "W," it indicates a water-cooled model.