



Linghein Compressor

SUB BRAND OF ATLAS COPCO GROUP

Sustainable Productivity
Professional screw air compressor manufacturer



凌格风
Linghein



Linghein®



**Atlas Copco
Group**

Linghein (Shanghai) Gas Technology Co., Ltd. is a wholly owned subsidiary of the Atlas Copco Group, delivering high-quality, reliable compressed air solutions powered by advanced screw compressor technology and continuous R&D capabilities. Its product portfolio covers screw and portable air compressors, refrigerated and adsorption dryers, air filtration systems, AIRnet piping systems, and energy recovery solutions.

Designed to meet complex operating conditions, Linghein solutions are widely applied across multiple industries, including pharmaceutical, electronics, food packaging, and other manufacturing applications, providing long-term value through improved reliability, efficiency, and ease of use for customers.

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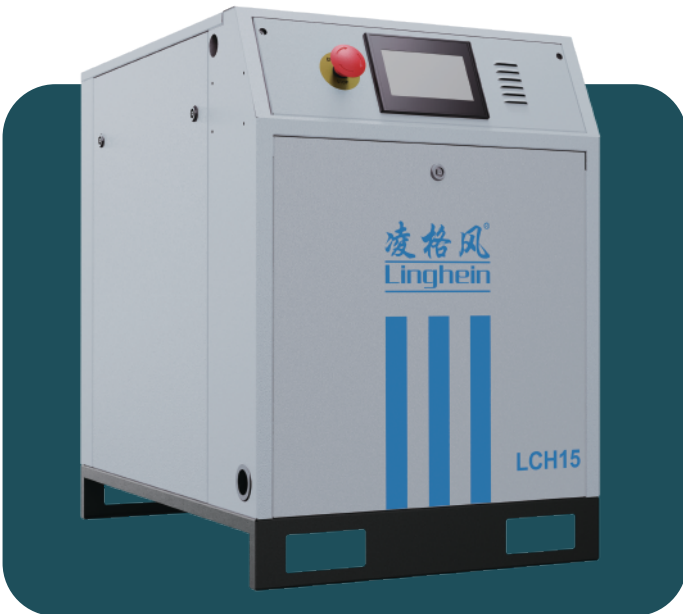
VSD Series



Variable Speed

LCH Series

Permanent Magnet VSD Screw Air Compressor
Air-cooled Economy Type



Advanced Air-end

Atlas Copco high efficient air-end.

Motor

IP23 protection, IE5 high-efficiency permanent magnet VSD motor with direct-drive transmission for maximum efficiency and reliability.

Control System

Vector-controlled inverter with fast response, standard remote monitoring, and RS485 communication interface.

Energy Efficiency

Entire unit exceeds Chinese National Grade 1 energy efficiency standards, ensuring superior energy savings.

Silent Design

Fully enclosed cabinet with high sealing performance and extra-thick sound-absorbing insulation for reduced noise levels.

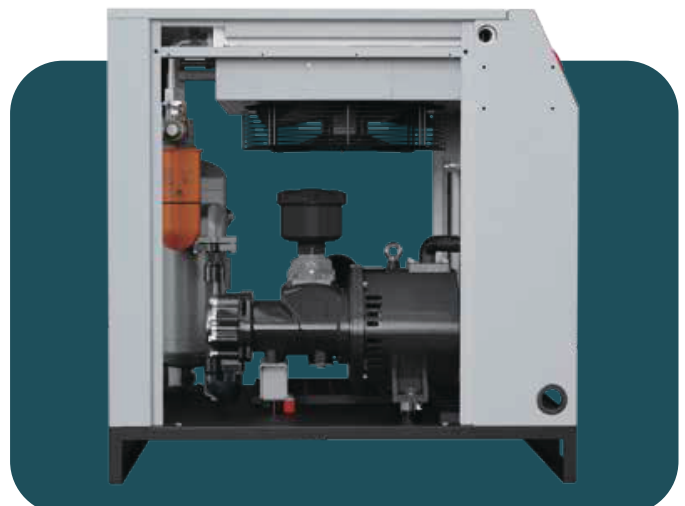


Suitable for manufacturing, metal processing, electronics, automotive, glass, and other industries requiring stable, energy-efficient compressed air.

Ideal for 24/7 operations and applications with fluctuating air demand where energy savings and pressure stability are critical.

Technical Parameter

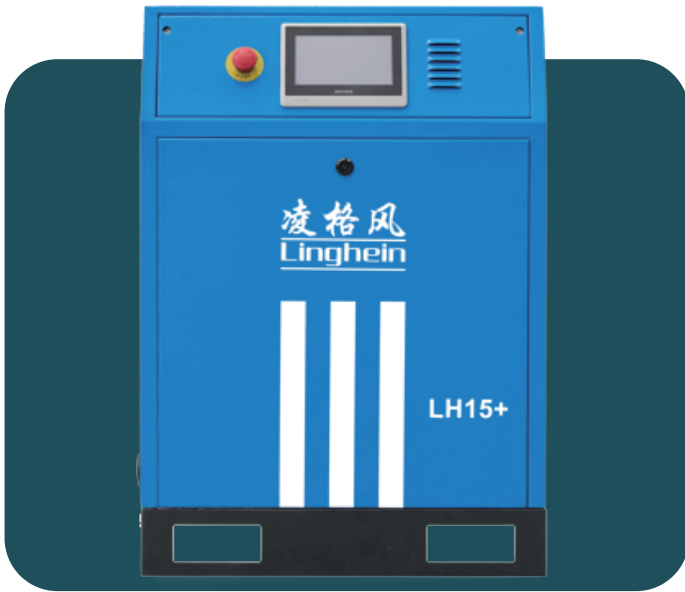
Model	Motor Power	Pressure
LCH11	11kW	7 ~ 8.5bar
LCH15	15kW	
LCH22	22kW	
LCH30	30kW	
LCH37	37kW	



Variable Speed

LH+ Series

Permanent Magnet VSD Screw Air Compressor
Oil-cooled Economy Type



Advanced Air-end

Atlas Copco high efficient air-end.

Optimized Inverter System

Powered by an INOVANCE inverter, enabling stable operation and average energy savings of up to 35%.

Control System

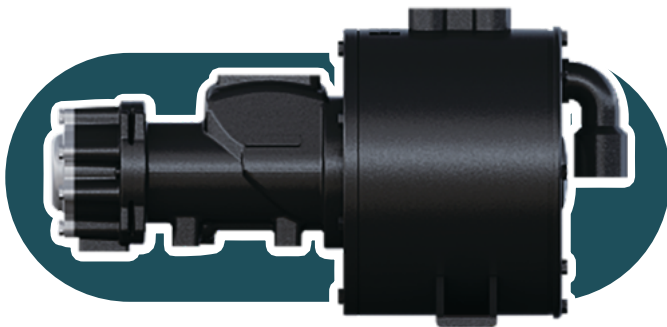
Standard configuration includes remote start/stop, and RS485 communication interface.

Low-Noise Cooling Design

Fan-free structure eliminates wind resistance loss, while the oil-wrapped motor housing provides effective cooling and reduced operating noise.

Energy Efficiency

Entire unit exceeds Chinese National Grade 1 energy efficiency standards, ensuring superior energy savings.



Motor

Permanent magnet oil-cooled motor with IP 55 protection, IE5 efficiency, and 180°C temperature resistance.

Technical Parameter

Model	Motor Power	Pressure
LH11+	11kW	7 ~ 8.5bar
LH15+	15kW	
LH22+	22kW	
LH30+	30kW	
LH37+	37kW	
LH45+	45kW	
LH55+	55kW	



Ideal for dusty, high-temperature, or space-limited industrial environments where stable performance and energy efficiency are critical. Suitable for industries such as woodworking, stone processing, food manufacturing, and continuous production lines requiring reliable compressed air and reduced energy consumption.

Variable Speed

HD Series

Permanent Magnet VSD Screw Air Compressor
Air-cooled Economy Type



Ideal for industries requiring high efficiency, stable air supply, and continuous operation including metal processing, automotive manufacturing, machinery production, plastics, and general industrial plants, especially where energy efficiency and reliable performance are essential.

Technical Parameter

Model	Motor Power	Pressure
HD7.5	7.5kW	7 ~ 8.5bar 10.5bar
HD11	11kW	
HD15	15kW	
HD18.5	18.5kW	
HD22	22kW	

Integrated Direct Drive

The air-end and the IE 4 permanent magnet adopt a direct connection for higher transmission efficiency.

Smart Inverter

Automatic stepless speed adjustment features a smooth soft-start to minimize impact on the power grid.

Enhanced Filtration Design

High-precision glass fiber oil filter effectively protects the air-end. The spin-on design allows quick and easy replacement.

Oil Circuit System

Steel pipe connection, with a sturdy and reliable structure, is resistant to high temperatures and ensures no leakage.



Variable Speed

LSH Series

Permanent Magnet VSD Screw Air Compressor
Oil-cooled Professional Type



Premium Air-end

Newly designed Atlas Copco air-end delivers higher airflow and outstanding energy-saving performance.

Oil-Cooled Integrated PM Motor

IE5 high-efficiency oil-cooled permanent magnet motor with a leak and temperature resistant design.

High-Efficiency Drive System

Adopts a direct-drive transmission with transmission efficiency above 0.99.

Smart VSD Control System

Atlas Copco's customized inverter paired with intelligent controller for real-time monitoring and easy management on compressors.

Energy Efficiency

7.5-75kW model meet Chinese National Grade 1 energy efficiency standards, ensuring superior energy savings.



Ideal for dusty, high-temperature, or space-limited industrial environments where stable performance and energy efficiency are critical.



Technical Parameter

Model	Motor Power	Pressure
LSH7.5 ~ LSH132	7.5kW ~ 132kW	7 ~ 10.5bar
LSH110+ ~ LSH132+	110kW ~ 132kW	7 ~ 13bar

* LSH7.5 ~ LSH22: IP54 IE5
LSH30 ~ LSH 132: IP66 IE5

Variable Speed

LOH Series

Permanent Magnet VSD Screw Air Compressor
Oil-cooled Professional Type



Premium Air-end

Newly designed Atlas Copco air-end delivers higher airflow and outstanding energy-saving performance.

Components

Use Siemens and Schneider's high-end series components, guarantee the longtime safe use.

Silent Design

Equipped with soundproof panels, lower noise.



IE5 high efficient, energy saving oil free permanent magnet motor with IP66 prevention, covered with full aluminum and adopt oil cooling for high cooling efficiency and no fan noise.

Adopt Atlas Copco self research and design inverter with IP5X protection, overall aluminum case surrounded design, built-in EMC filter to eliminate harmonic interference.

Ideal for dusty, high-temperature, or space-limited industrial environments where stable performance and energy efficiency are critical. Suitable for industries such as woodworking, stone processing, food manufacturing, and continuous production lines requiring reliable compressed air and reduced energy consumption.

Technical Parameter

Model	Motor Power	Pressure
LOH7.5 ~ LOH90	7.5kW ~ 90kW	7 ~ 13bar
LOH110 ~ LOH160	110kW ~ 160kW	7 ~ 10.5bar



* Atlas Copco Design Inverter: IP5X
Oil-cooled Permanent Magnet Motor: IP66 IE5 8

Variable Speed

LSV Series

Permanent Magnet VSD Screw Air Compressor
Air-cooled Professional Type



Air-end

Atlas Copco air-end delivers higher airflow and outstanding performance.

Air-Cooled PM Motor

High-efficiency air-cooled permanent magnet motor with IP55 protection and IE 5 efficiency.

Inverter

Exclusive customized inverter with fast response speed; real-time regulation of system's air volume to maintain a constant pressure and save energy effectively.



Air Filtration System

Designed with a pre-filter screen to reduce the air filter loading and lengthen the service time of system's parts.

Oil Filtration System

The host bearing is equipped with a separate oil filter, which prolongs the bearing life. Spiral installation, simple and fast, long design life.



Technical Parameter

Model	Motor Power	Pressure
LSV110	110kW	7 ~ 8.5bar
LSV132	132kW	10.5bar
LSV160	160kW	7 ~ 10.5bar 7 ~ 8.5bar / 10 ~ 13bar
LSV180	180kW	7 ~ 10.5bar
LSV200	200kW	7 ~ 8.5bar 7 ~ 10.5bar
LSV250	250kW	7 ~ 10.5bar
LSV315	315kW	
LSV355	355kW	7 ~ 8.5bar / 10.5bar

Available Configuration

LSV II: Two-stage Compression Model
Ideal for industries requiring high pressure, large airflow, and continuous operation.

Technical Parameter Two Stage

Model	Motor Power	Pressure
LSV250+ II	250kW	
LSV315+ II	315kW	7 ~ 10.5bar
LSV355+ II	355kW	

Variable Speed

LSP Series

Permanent Magnet VSD Screw Air Compressor
Water-cooled / Air-cooled Industrial Type



Air-end

Atlas Copco new design energy saving air-end, high efficiency and larger gas volume.

Motor

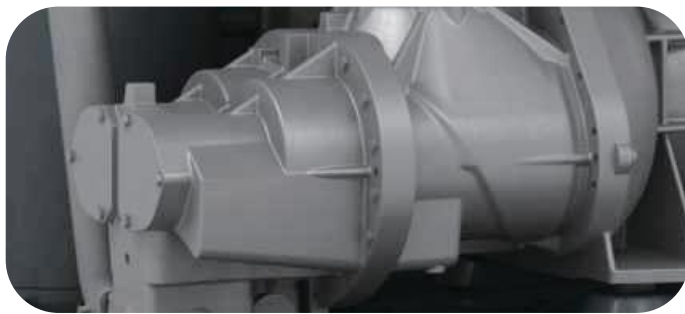
Adopt Atlas Copco's motor, exclusive SAP line and SAF heavy-loaded bearings, can maintain high efficiency over a wide frequency range.

Control System

Multiple intelligent control modes, simple operation, and higher efficiency.

Cooling System

Water-cooled coolers adopts in-line tube cooling with inline copper pipe as water line. It can realize an excellent heat-exchanged efficiency and ensure an efficient cooling.



IP55 protection fully enclosed motor that can adapt bad working conditions.

Technical Parameter

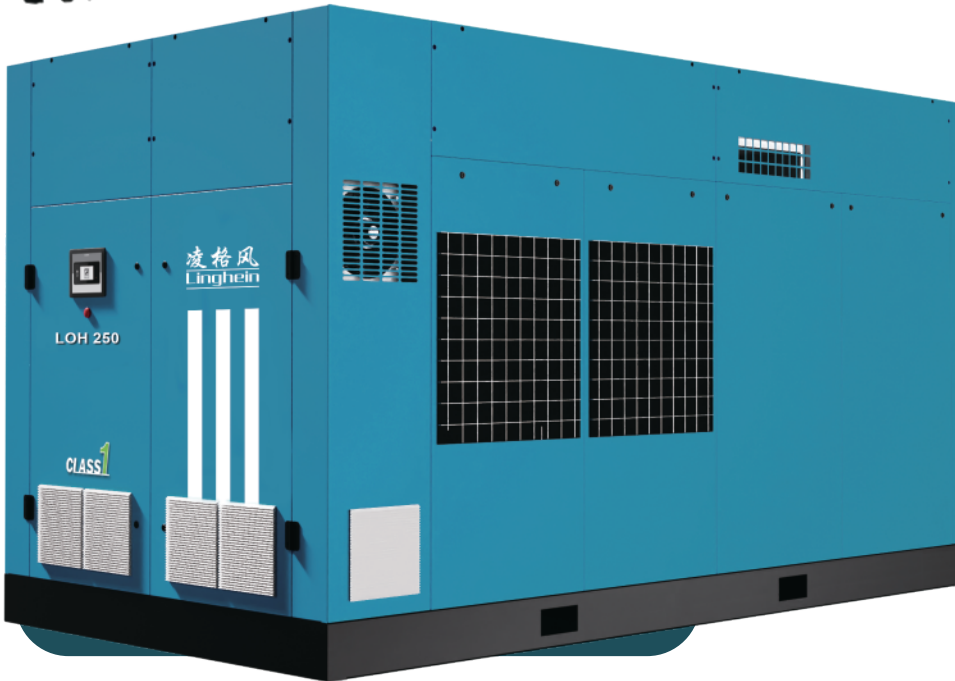
Model	Motor Power	Pressure
LS30P	30kW	7.5bar 8.5bar 10.5bar 13bar
LS37P	37kW	
LS45P	45kW	
LS55P	55kW	
LS75P	75kW	7.5bar 8.5bar 10.5bar
LS110P	110kW	
LS132P	132kW	
LS160P	160kW	



Variable Speed / Fixed Speed

LST / LOH Series

Permanent Magnet VSD / Fixed Speed Screw Air Compressor
Dual Drive Type



Dual Drive

Atlas dual-host drive, dual air filter configuration, dual-side air intake design, providing greater air volume.

Control System

The controller independently developed by Atlas is fast and intelligent, with an internal integrated cloud connection system that allows for real-time monitoring of machine status.

Cooling System

Negative pressure box body, even if the box door is open, it will not affect heat dissipation. The oversized oil cooler design can maintain the normal temperature of lubricating oil even under high temperature and high dust.

Oil-Gas Separation System

Patented oil-gas separation system with dual air intake design reduces pressure loss and ensures lower oil content.

Multi Functional Intake Valve

The valve plate operates smoothly, with low vibration and noise, low pressure loss, and is more energy-efficient.

Technical Parameter

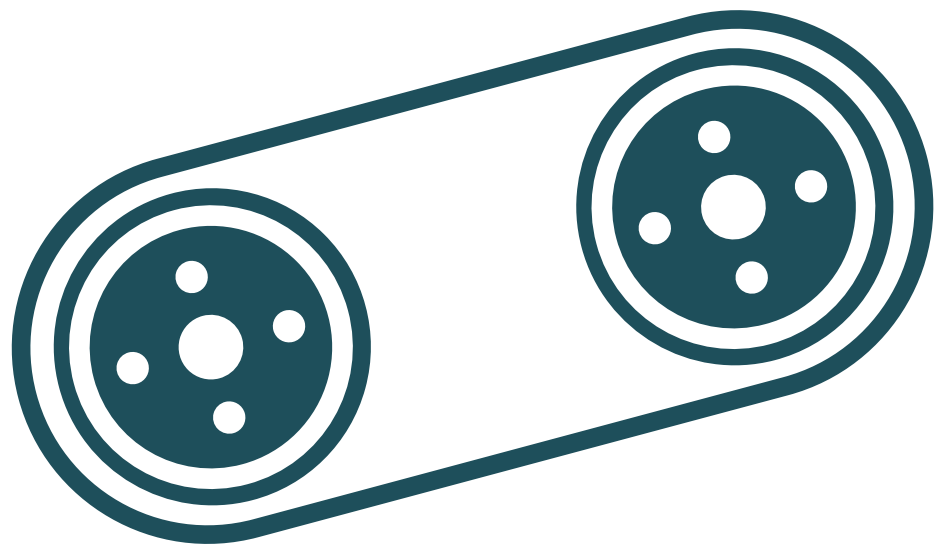
Model	Motor Power	Pressure
LST180	180kW	7.5bar 8.5bar 10.5bar
LST200	200kW	
LST250+	250kW	
Model	Motor Power	Pressure
LOH200	200kW	7 ~ 8.5bar / 10.5bar
LOH250+	250kW	



* VSD motor: IP66 IE5

* Fixed speed motor: IP55 IE4

Fixed Speed Series



Fixed Speed

CS Series

Fixed Speed Screw Air Compressor
Air-cooled Economy Type



Air-end

Newly-designed air-end made by Atlas Copco, which adopts new SAP line and exhaust port structure, bringing lower pressure drop and higher efficiency.

Pre-filter Dust Net

Add a pre-filter dust net, reducing particulate dust from enter into air compressor, improving intake air quality and prolong the maintenance time.

Cooling System

Low noise and efficient cooling design, independent cooling fan ensures stable cooling air volume.

Silent Design

Have fully enclosed cabinet with specialized 40cm sound-proof cotton.



TMDD: Integrated air tank, air dryer and air filter, which have a compacted structure and can save the installation cost and time.

Technical Parameter

Type	Model	Motor Power	Pressure
Standard	CS4N ~ CS7.5N	4kW ~ 7.5kW	8.5 / 10.5bar
	CS11 ~ CS75	11kW ~ 75kW	7.5 / 8.5 / 10.5bar
2 IN 1	CS4N TM ~ CS7.5N TM	4kW ~ 7.5kW	8.5 / 10.5bar
	CS11 TM ~ CS15 TM	11kW ~ 15kW	7.5 / 8.5 / 10.5bar
4 IN 1	CS7.5N TMDD	7.5kW	8.5 / 10.5bar
	CS11 TMDD ~ CS15 TMDD	11kW ~ 15kW	7.5 / 8.5 / 10.5bar



Fixed Speed

LS Series

Fixed Speed Screw Air Compressor
Air-cooled Professional Type



Premium Air-end

Newly designed Atlas Copco air-end delivers higher airflow and outstanding energy-saving performance.

Intelligent Control System (45–90 kW)

Atlas Copco controller with touchscreen interface and cloud connectivity for real-time monitoring and easy control.

Reliable Electrical System

High-quality Siemens and Schneider components paired with optimized wiring layout for long-term safety and reliability.

Advanced Filtration System

Pre-filter design reduces the load on the main air filter and extends component life. High-precision air, oil, and separator filters effectively protect the system and ensure long-term reliability.

Available Configuration

LS II: Two-stage Compression Model
Ideal for industries requiring high pressure, large airflow, and continuous operation.

LS TM: 2-in-1 Model (Compressor+Air Tank)
Integrated design reduces installation space while providing stable air storage and smoother airflow.

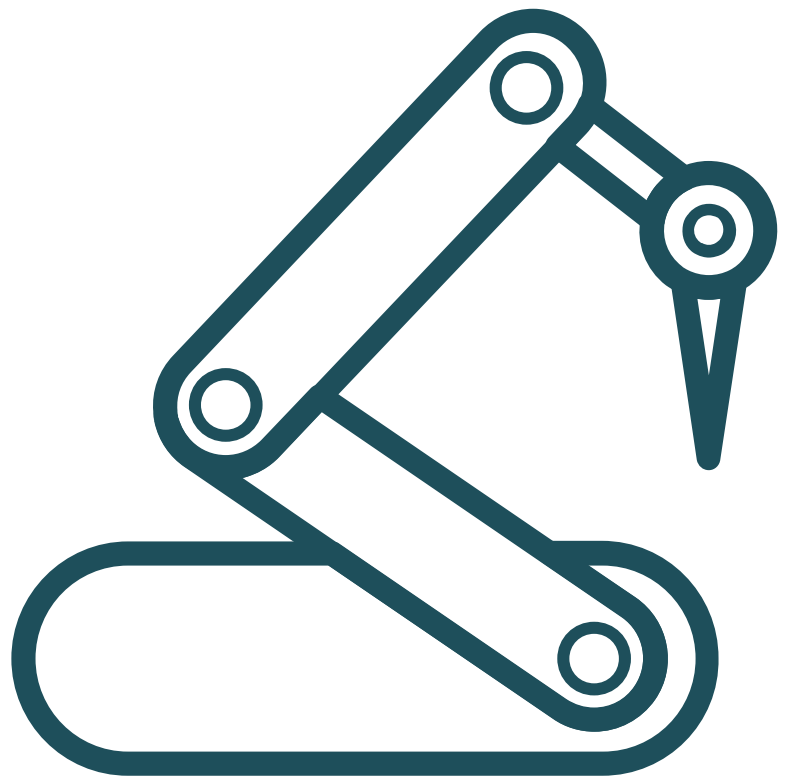
LS TMDD: 4-in-1 Model (Compressor+Air Tank+Air Dryer+Filters)
All-in-one solution delivers clean, dry, and stable compressed air, with easy installation and minimal setup.

Technical Parameter

Type	Model	Motor Power	Pressure
Standard	LS4N ~ LS7.5N	4kW ~ 7.5kW	8.5/10.5bar
	LS11 ~ LS22	11kW ~ 22kW	7.5/8.5/10.5/13bar
	LS30 ~ LS37	30kW ~ 37kW	7.5/8.5/10.5bar
	LS45D ~ LS355D	45kW ~ 355kW	7.5/8.5/10.5bar
	LS110+ ~ LS132+	110kW ~ 132kW	7.5/8.5/10.5/13bar
	LS160+ ~ LS280+	160kW ~ 280kW	7.5/8.5/10.5bar
Two Stage	LS250 II ~ LS355 II	250kW ~ 355kW	7.5/8.5/10.5bar
2 IN 1	LS4N TM ~ LS7.5N TM	4kW ~ 7.5kW	8.5/10.5bar
	LS11 TM ~ LS18.5 TM	11kW ~ 18.5kW	7.5/8.5/10.5/13bar
4 IN 1	LS4N TMDD ~ LS7.5N TMDD	4kW ~ 7.5kW	8.5 / 10.5bar
	LS15 TMDD ~ LS18.5 TMDD	11kW ~ 15kW	7.5/8.5/10.5/13bar



Industry-specific Series



Variable Speed / Fixed Speed

LS/LSV LP Series

Screw Air Compressor
Low Pressure Industrial Type



Air-end

Use Atlas Copco low pressure air-end (specially designed for 3.5-5.5bar condition) and SKF heavy-duty bearing.

Control System

Adopt intelligent 4.3 inches touch-screen controller, intergrate with intelligent connection system and can be monitored remotely.

Custom Valve

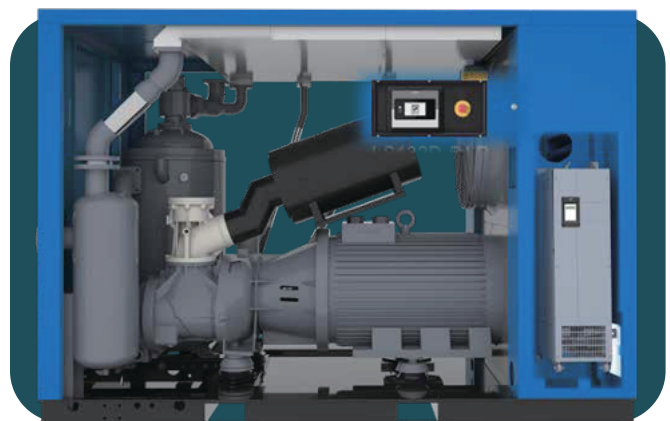
Use new type of low pressure intake valve, which is customized by Atlas Copco and intergrates one-way valve and oil shut-off valve, optimize air intake efficiency and power specific is better.

Oil Separator

The oversized oil separator tank and oil separator element design ensure high oil separation efficiency, with exhaust oil content ≤ 2 ppm.

Pre-filter Dust Net

Add prefilter dust net, prevent cotton fibres (e.g. from textile industry) from getting into the air compressor, prolong the maintenance time.



Technical Parameter

Model	Motor Power	Pressure
LS55 LP ~ LS250 LP	55kW ~ 250kW	3.5 ~ 5.5bar
LSV55 LP ~ LSV250 LP	55kW ~ 250kW	

For LSV LP Series, use INOVANCE inverter, it's responsiveness <20ms and can match with factory air volume change perfectly.

Variable Speed

LSW Series

VSD Screw Air Compressor
Oil-free Industrial Type



Motor

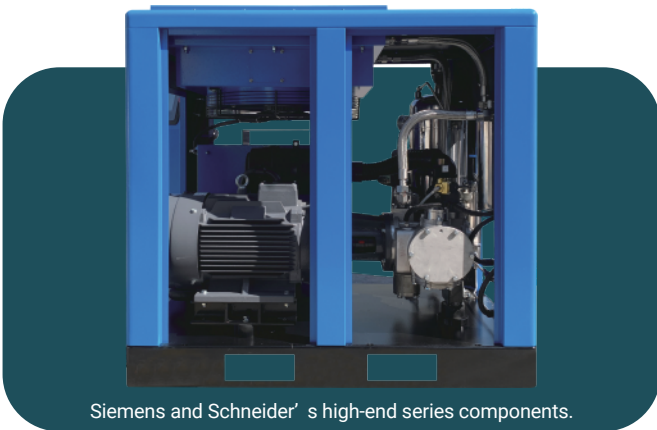
Use integral stainless steel motor, no risk of patina contamination compared with copper motors.

Oil Free

The whole machine has passed the TÜV test with 0 level oil-free certification, which is totally free from oil.

Water Lubricated

Use water to replace lubricated oil, no need for lubricants, oil filters and other consumables, saving maintenance costs.



Siemens and Schneider' s high-end series components.

Filters

Use American Donaldson' s filter, the filtration efficiency is up to 99%.

Energy Efficiency

The working temperature of motor is below 50°C and close to ideal isothermal compression process. It can avoid energy loss result from heating and lengthen the service life of the whole machine.



Suitable for demanding industries like medical, pharmaceutical, precision electronics, and food and beverage industries.

Technical Parameter

Model	Motor Power	Pressure
LSW7.5 ~ LSW55	7.5kW ~ 55kW	5~8bar / 10bar
LSW7.5PM~LSW250PM	7.5kW ~ 250kW	

Electric heater option available for the whole series.
Air-cooled models available from 45 -185kW.

Technical Parameter Mid Pressure

Model	Motor Power	Pressure
LSW-74W PM	37+37kW	40bar
LSW-90W PM	45+45kW	
LSW-110W PM	55+55kW	
LSW-150W PM	75+75kW	
LSW-180W PM	90+90kW	
LSW-220W PM	110+110kW	
LSW-242W PM	132+110kW	

Fixed Speed

LSC Series

Fixed Speed Screw Air Compressor
Special For Laser Cutting Industrial Type



TMDD: Intergrated air tank, air dryer and three level filters; the structure is compacted and can be used as soon as plugged in.

Technical Parameter

Model	Motor Power	Pressure
LSC-11	11kW	16bar
LSC-15	15kW	
LSC-18.5	18.5kW	
LSC-22	22kW	
LSC-11 TMDD	11kW	
LSC-15 TMDD	15kW	
LSC-18.5 TMDD	18.5kW	
LSC-22 TMDD	22kW	

Air-end

Adopt Atlas Copco' s 16bar high pressure air-end and heavy-duty bearings, ensuring super long service time.

Filters

For laser cutting, all filters are made of high-quality materials and optimized oil and gas separation system to ensure ultra-low oil content.

Control System

Intelligent controller system with overheat, short circuit, overload protection function.

Stable Safety

The whole machine' s oil distribution drum and piping is designed for 20 bar operation, which is reliable, stable and safe.

High-quality Lubrication

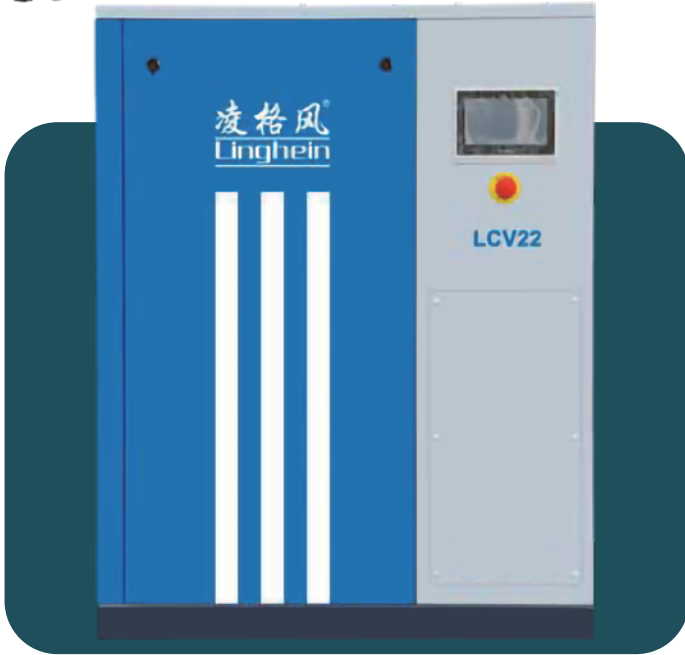
Full synthetic lubricants with 8000 hours are used in the whole series.



Variable Speed

LCV Series

Permanent Magnet VSD Screw Air Compressor
Special For Laser Cutting Industrial Type



Integrated Drive System

Direct-drive connection between motor and air-end ensures higher transmission efficiency. Equipped with a high-efficiency air-cooled PM VSD motor, with temperature resistance up to 180 °C.

Advanced Control System

Powered by INOVANCE controller and inverter with vector control, enabling stepless speed regulation. Automatically adjusts airflow to demand, maintaining stable pressure while reducing energy consumption.

High-quality Lubrication

Standard fully synthetic lubricant ensures longer service life and reliable operation.

Stable Pressure & High Airflow

Delivers stable pressure and high airflow to ensure efficient oxidation and effective removal of molten material, resulting in cleaner cut edges and consistent cutting quality.

Clean & Dry Air Supply

Provides low oil and moisture content to protect the laser head and lens, ensuring stable beam transmission, reducing defects.



LCV TMDD: 4-in-1 Model (Compressor+Air Tank+Air Dryer+Filters)
An all-in-one solution delivering clean, dry, and stable compressed air, with a pressure dew point as low as 7 °C, enabling easy installation and minimal setup.

Technical Parameter

Model	Motor Power	Pressure
LCV15	15kW	15.5bar
LCV22	22kW	
LCV15 TMDD	15kW	
LCV22 TMDD	22kW	



Portable

CSY Series

Diesel / Electric Driven Screw Air Compressor
Water-cooled / Air-cooled Industrial Type



Next-Generation Screw Air-end

Two-stage rotors engineered with higher strength and lower internal leakage, enhancing compression efficiency, and allowing easier installation and maintenance.

Intelligent Control System

Equipped with an LCD display and user-friendly interface, the system enables real-time monitoring, and offers flexible standalone or linked operation modes.

Air Capacity Control System

A proven unloading valve combined with an advanced control system enables fast-response, automatic air capacity adjustment.

Reliable Air Intake System

A high-efficiency filtration system with large surface area ensures clean intake air performance.



CSY 600: Diesel Driven

Equipped with an EGR technology engine, the system requires no urea (AdBlue), reducing maintenance complexity and cost while delivering lower fuel consumption and stronger, more reliable power output.

CSY 600D: Electric Driven

Equipped with a high-efficiency asynchronous motor, delivering stable and efficient power output with IP55 protection and class H insulation, ensuring reliable, low-noise operation in demanding conditions.

Technical Parameter

Model	Motor Power	Pressure
CSY600-18	154kW	18bar
CSY600D-18	132kW	



Portable

LUY Series

Diesel Driven Screw Air Compressor
Water-cooled Industrial Type



Intelligent Control & Flow Regulation

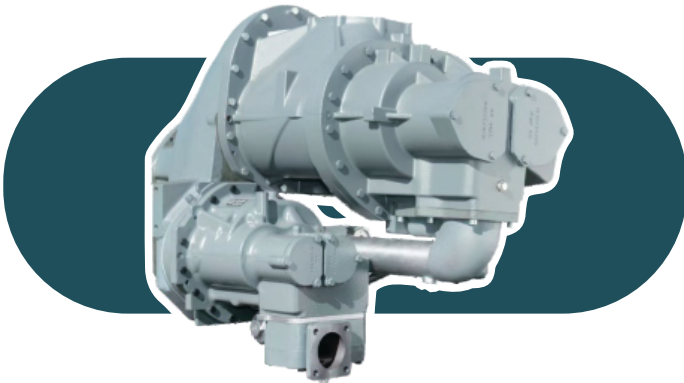
The patented controller with PowerXpert technology delivers fast-response control, regulating engine speed and power output for flexible flow and lower fuel consumption.

Comprehensive Filtration

Multi-stage fuel filtration with a water separator, combined with a two-stage air intake filter, ensures clean fuel and air for reliable operation.

Easy to Transport

A robust undercarriage design with torsional spring ensures safe and easy transportability, even in demanding working conditions.



Powerful Engine & Efficient Aired

A reliable, corrosion-treated engine combined with an advanced air end featuring asymmetric rotors ensures high efficiency, low wear, and long service life.

Optional Features

- Air pre-filter for heavy-duty applications
- Cold start system
- Box-mounted configuration
- Aftercooler
- Dual pressure setting
- EKON control system

Technical Parameter

Model	Motor Power	Pressure
LUY50 ~ LUY455	33kW ~ 570kW	7bar ~ 35bar



Refrigerated Air Dryers



HDF Series

Refrigerated Air Dryer
Standard Type



Micro Channel Condenser

Multi-channel flow design, increase heat transfer surface area by up to 30%.

Aluminum Plate Heat Exchanger

3 in 1 design of pre-cooler, evaporator, and moisture separator. Ultimate heat transfer efficiency, low pressure reduction and lightweight design.

Copper Pipeline

Simplified pipeline design, reduce the risk of leakage, and minimize pressure loss. Run more stably.

Intelligent Controller

Durability improvement. High precision sensor, NTC temperature probe, dew point accuracy ± 0.1 °C. Equipped with RS485 communication, it can detect outlet temperature and refrigerant pressure.

Dry Compressed Air

High efficiency plate-fin type heat exchanger, the air inlet & air outlet temperature difference lower than 5°C.

Water remove rate reach to 99%.

Relative humidity lower to 20% of outlet compressed air.

Energy Saving

Energy consumption reduce 50% compares with the conventional barrel type refrigerated air dryer.

Optimized refrigerating system.

Environment protect refrigerant R134a & R410A.



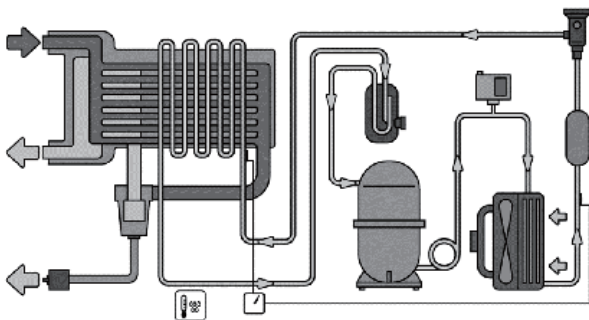
Technical Parameter

Pressure Dew Point 3~10°C

Model	Refrigerant	MAX Working Pressure
HDF10 ~ HDF21	R134a	13bar
HDF40 ~ HDF260	R410A	
HDF300 ~ HDF350		

HDP Series

Refrigerated Air Dryer
Professional Type



Technical Parameter

Pressure Dew Point 3~7°C

Model	Refrigerant	MAX Working Pressure
HDP15 ~ HDP21	R134a	13bar
HDP40 ~ HDP225	R410A	10bar
HDP250 ~ HDP350		10bar

Drier Compressed Air Output

High-efficiency 3-in-1 plate heat exchanger with inlet-outlet ΔT as low as 5°C.

High-performance water separator with up to 99% water removal efficiency.

Outlet compressed air relative humidity as low as 20%.

Energy-Efficient Operation

Up to 50% lower energy consumption compared to shell-and-tube designs.

High-efficiency R410A environmentally friendly refrigerant.

Reliable

Durable imported Mitsubishi refrigerant compressor.

Digital PLC displays air dryer dew point, fault code and operation situation.

Optimize piping desing, only 4 manual welding point, reduce the risk of leakage.

Each air dryer should pass 3 leakage detecting: compressed air, helium and refrigerant test before delivering.



Linghein®

Atlas Copco
Group

