

WE TAKE CARE OF YOUR COMPRESSED AIR
INNOVATION
EFFICIENCY
ONE-STOP SERVICE

We Focus on Your Compressed Air

Professionally Providing Reliable and Excellent System Solutions

LUT Series Oil-Free Centrifugal Compressors

355-2000kW

ORIGINAL PART

Innovation

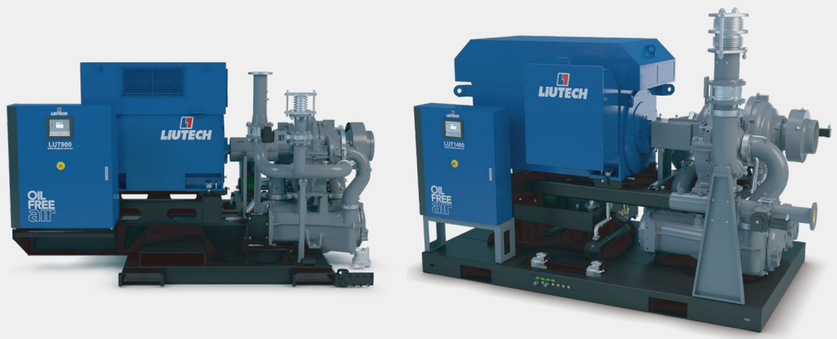
Innovation is the primary driver of our operations. We continuously explore new ideas and technologies,striving to deliver innovative solutions that meet our customers' evolving needs. Embracing a cultureof curiosity and experimentation, we push boundaries, unlock new possibilities, and drive progress in the compressed air industry.

Efficiency

Efficiency is our cornerstone. We are committed to providing cost-effective solutions that continuously optimize performance and create value for our customers. By continuously optimizingour processes and practicing agile methodologies, we ensure that every interaction with ourbrand is efficient and productive.

One-Stop Service

We are committed to providing our customers with comprehensive, one-stop compressed air system solutions to meet their diverse needs. From initial consultation to ongoing support, we offer a seamless and integrated service experience . Combining our expertise and resources, we simplify our customers' journey and help them achieve their goalswith ease.



LIUTECH

LIUTECH

Company Introduction

Company Profile

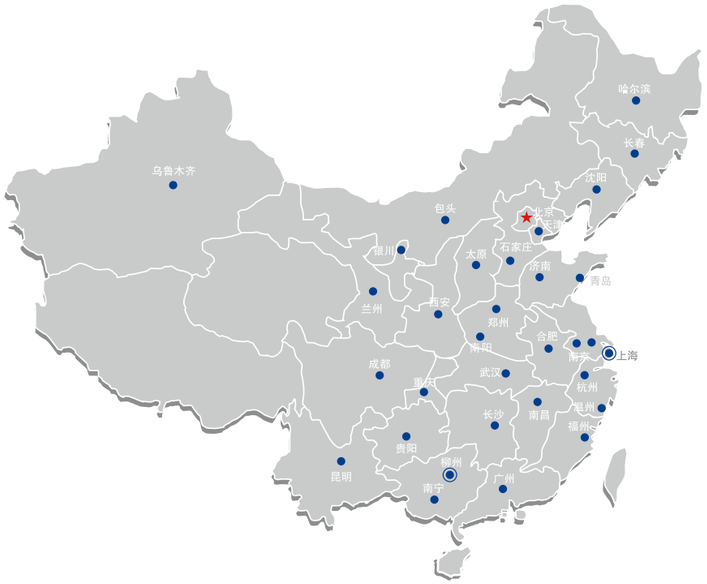
On April 27, 2002, the Swedish Atlas Copco Group fully acquired Liuzhou Fuda Machinery Co., Ltd., established in 1994. LIUTECH became the first brand acquired by Atlas Copco Group in China, professionally producing and selling LIUTECH-branded stationary and mobile screw air compressors and post-treatment equipment in the Chinese market.

In 2013, the company moved its Customer Center from Liuzhou to China ' s economic hub—Shanghai. In 2017, the group further integrated and specialized its resources, deciding to register an independent legal entity, Liuzhou Tech Machinery Equipment Co., Ltd., to professionally manage the sales and service of LIUTECH stationary machines. Since then, Liuzhou Fuda Machinery Equipment Co., Ltd. has focused on all LIUTECH mobile machine business, while LIUTECH stationary machine sales and services are handled by Liuzhou Tech Machinery Equipment Co., Ltd. and its subsidiaries.

In 2024, on the 30th anniversary of the brand, LIUTECH (Shanghai) Compressed Air Systems Co., Ltd. officially began operations. LIUTECH has always upheld the brand promise, “We Focus on Your Compressed Air,” continuously developing and providing customers with energy-efficient compressed air system solutions. These include the full range of oil-injected screw compressors, water-injected screw compressors, oil-free scroll compressors, oil-free screw compressors, centrifugal compressors, refrigerated dryers, adsorption dryers, air receivers , pipeline filters, Jet Energy pipelines, heat recovery units, and various service products.

The LIUTECH brand adopts advanced European technology, with product designs tailored to the unique needs of the Chinese market, better adapting to local operating conditions. At the same time, nationwide one-stop service ensures peace of mind for our customers.







Headquartered in Shanghai

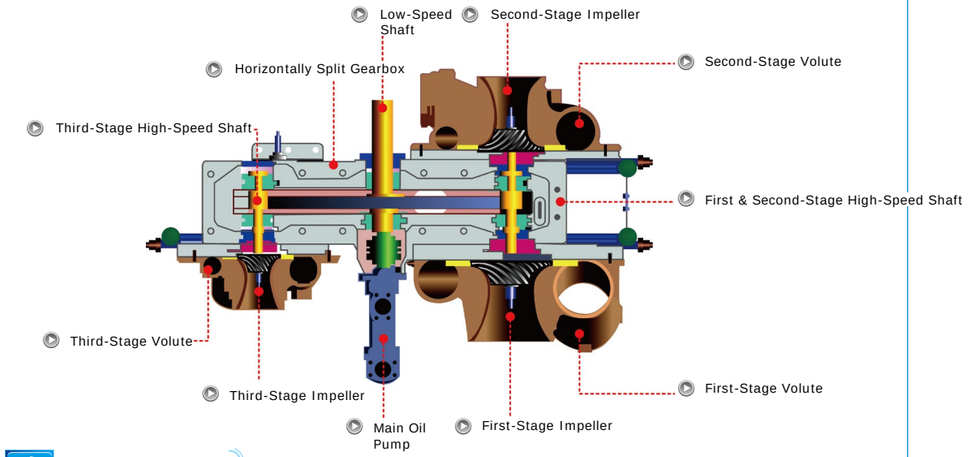
“Excellent Performance, Excellent Quality” is LIUTECH ' s quality policy. By adhering to this policy, LIUTECH ensures that all its products maintain the highest standards.

We have established multiple Air Centers across the country, forming a professional and comprehensive sales and service network. We always focus on your compressed air, ensuring safe and efficient production!

Relying on the advanced compression technology of the Atlas Copco Group, LIUTECH has launched the LUT Series Oil-Free Centrifugal Compressors. These compressors provide customers with an optimized solution that features low energy consumption, high cost-effectiveness, stability and reliability, easy installation, convenient maintenance, and a focus on environmental protection.

They are widely used in industries such as steel, metallurgy, petrochemicals, air separation, shipbuilding, electronics, textiles, food, and biopharmaceuticals, continuously earning greater recognition and trust from users.

Safe and Reliable Compression Unit System



Impeller Rotor

The high-efficiency three-stage backward-curved impellers are made of hardened stainless steel. Each rotating component and the fully assembled rotor are dynamically balanced to ensure smooth operation, low noise, and minimal vibration.





Innovation
Efficiency
One-Stop Service
LIUTECH
We Focus on Your Compressed Air

LUT Series Centrifugal Compressors

LUT Series Centrifugal Compressors

Reasonably coordinated layout, fewer moving parts, and user-friendly component design comprehensively improve the cost-effectiveness of oil-free centrifugal compressors, providing customers with fully oil-free compressed air.

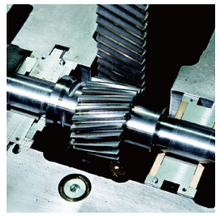
Advanced Inlet Guide Vane (IGV) Adjustment Mechanism

- The advanced IGV adjustment mechanism allows stepless adjustment with precise positioning, effectively regulating performance under partial load.
- Electric or pneumatic actuators are optional.



High-Precision Gear Transmission

- Uses large and small gears that meet the AGMA Q13 / DIN 5 precision standards of the American Gear Manufacturers Association, enhancing mechanical reliability, interchangeability, and compressor mechanical efficiency, while also reducing noise.





Economical and Comprehensive Control System

- Rare differential pressure ratio surge prediction function
- User-friendly interface, easy to operate
- More complete display of operating parameters and status, alarms, shutdowns, etc.
- Optional communication interfaces such as Modbus and Profibus



Adjustable Blow-Off Valve

- Constant-pressure control mode provides continuously stable compressed air
- Automatic dual-mode control for energy savings according to actual changing operating conditions
- Electric or pneumatic actuators optional



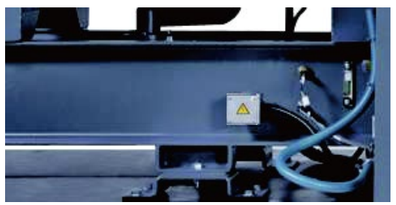
Integrated Exhaust Check Valve

- High-quality, corrosion-resistant check valve
- Metal-to-metal sealing, low pressure drop



Complete Lubrication System

- Fully welded oil tank with large inspection openings
- Oil sight glass and electronic low-oil-level alarm with shutdown function
- Full-flow auxiliary oil pump, automatically starts at low oil pressure



High-Quality Cooler

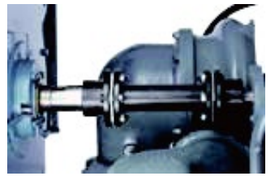
- Integrated design, high heat exchange efficiency, reduced pressure drop
- Straight-tube design: water flows through tubes, air flows through shell; front and rear covers for easy cleaning
- Equipped with automatic and manual drain valves



LUT Series Centrifugal Compressors

Maintenance-Free Coupling

- Maintenance-free disc-type coupling ensures continuous compressor operation
- Stainless-steel discs for high reliability



Oil Mist Breather

- Electric exhaust fan removes oil mist without consuming air
- Negative pressure principle prevents oil leakage



Proper Anti-Corrosion Design

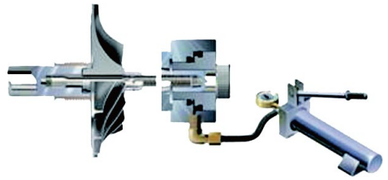
- All air-path components coated with special DuPont resin for excellent corrosion resistance
- High reliability with low maintenance costs





Unique Micro-Spline Connection

- Excellent design allows easy assembly/disassembly without damaging components
- Repeated disassembly with no wear and precise positioning
- Capable of transmitting power up to 10,000 kW

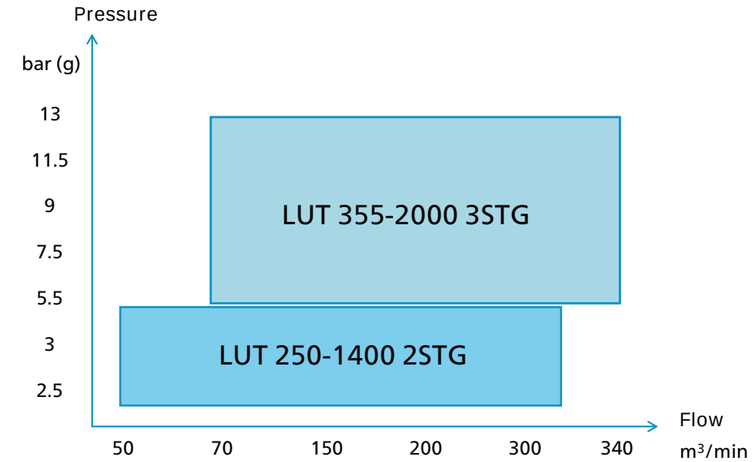


One-Stop Procurement, All-in-One Service

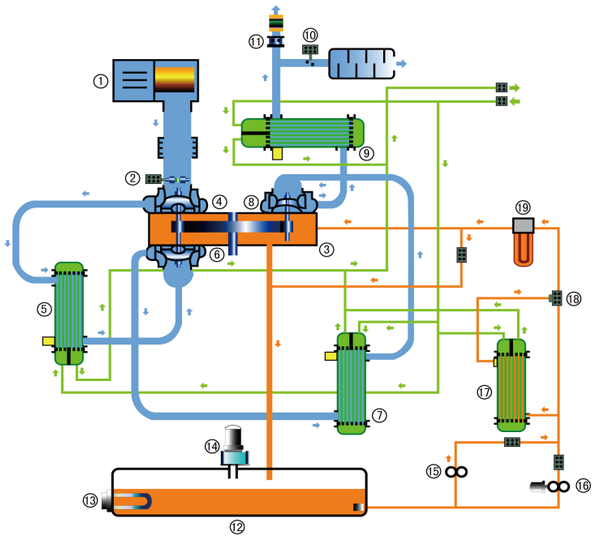
- Designing and configuring efficient and economical compressor stations for customers, providing clean compressed air
- Offering integrated and timely services including pre-sales consultation, complete unit sales, on-site maintenance, and spare parts supply

LUT Series Centrifugal Compressor Technical Scope

(Main power supply 6kV or 10kV optional, control power supply 380V)



Complete System Flow Diagram



① Inlet Air Filter
② Inlet Guide Vanes
③ Horizontally Split Gearbox
④ First-Stage Impeller
⑤ First-Stage Intercooler
⑥ Second-Stage Impeller
⑦ Second-Stage Intercooler
⑧ Third-Stage Impeller
⑨ Aftercooler (Optional)
⑩ Blow-Off Valve
⑪ Discharge Check Valve
⑫ Oil Tank
⑬ Oil Heater
⑭ Oil Mist Breather
⑮ Main Oil Pump
⑯ Auxiliary Oil Pump
⑰ Oil Cooler
⑱ Oil Temperature Control Valve
⑲ Duplex Oil Filter