CASE STUDY

Your On-Call Turboexpander Experts

Contact us today for turboexpander design, repair or support services.

+1855 FXTUrbo[®] 24/7/365 Support Services **/** Turboexpander Modification & Redesign

LAT44 Turboexpander-Compressor



L.A. Turbine completed a modification and redesign of the mechanical center section of this existing turboexpander-compressor located on an offshore platform off the African coast. The purpose of the project was to increase gas-processing capacity, while accommodating the existing requirement for a reduced footprint, meeting the demanding environmental platform conditions and providing the customer with more reliable, stable and maintenance-free equipment. The modification and redesign work involved the magnetic bearing, terminal boxes, inlet guide vane (IGV) system, feed-through seal, active magnetic bearing control system, PLC Delta-V control system and seal gas system.

Specifications	
Frame Size	L4000/FR40
Speed	21,500 RPM
Flow Rate	223,433 kg/hr.
Inlet Pressure/Temperature	79 BAR A/-5.6°C
Outlet Pressure/Temperature	26 BAR A/-55.6°C
Wheel Power	4300 kW



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L.A. Turbine designs and manufactures application-specific, highly engineered turboexpanders used in hydrocarbon processing, geothermal power generation and other industrial power recovery or refrigeration applications.

The company is also a recognized leader in aftermarket repair, redesign, maintenance and production of spare parts for all brands and configurations of turboexpanders worldwide.

A global field service team provides diagnostics, maintenance and emergency support 24/7/365.

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+1855 FXTurbo**
+1855 398 8726
service@LATurbine.com

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Turboexpanders

Turboexpander configurations include expander-compressor, expander-generator, expander-dyno (oil brake) and expander-compressors with active magnetic bearing units. Turboexpanders range from 3kW to 14MW, are capable of handling up to 3,000 PSIG pressure, can operate at speeds up to 105,000 RPM, and accommodate temperatures between -195°C to 260°C.

Ability to Deliver

From concept to commissioning, L.A. Turbine controls and manages the entire design, engineering manufacturing, assembly and testing process for all new and aftermarket equipment. As a result, we are able to deliver faster-to-market customized solutions than competitive firms, and our equipment not only meets but often exceeds clients' output performance requirements. All engineering design and development processes comply with ISO 9001:2008.

Global Presence

L.A. Turbine has established a global presence on five continents, in 17 world offices and partner sales and distribution locations. U.S. headquarters and manufacturing are located in Valencia, California, with sales and service facilities in California and Europe.

L.A. Turbine Headquarters & Service Center 28557 Industry Drive Valencia, CA 91355 USA T: +1 661 294 8290 sales@II ATurbine com

Worldwide Partners & Agents



