

CASE STUDY

Turboexpander Design for Ethane Recovery

Turboexpander-Compressor

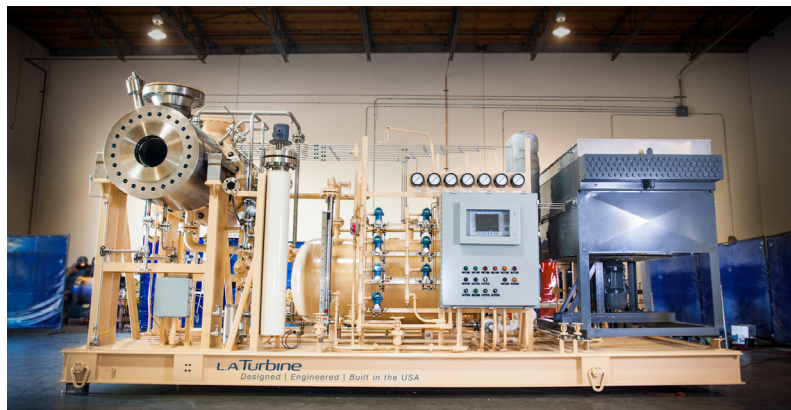
L.A. Turbine designed this L4000 turboexpander-compressor for use in ethane recovery at a 300MMSCFD gas plant in the U.S. The unit features a single-stage expander-compressor with oil bearing and a local control panel.

Your On-Call Turboexpander Experts

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turboexpander design,
repair or support services.

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Support Services

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Specifications	
Application	Ethane Recovery
Frame Size	L4000
Speed	17,500 RPM
Flow Rate	150-200 MMSCFD
Inlet Pressure/Temperature	865 PSIA/-27°F
Outlet Pressure/Temperature	295 PSIA/-102°F
Wheel Power	3300-4660 hp


L.A. Turbine™
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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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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.

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