

Company Fact Sheet

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Company: L.A. Turbine Corporation (LAT)

Founded: January 15, 2003

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Emergency 24/7/365: +1 855 FX-TURBO or +1 855 398 8726

Website: www.LATurbine.com

Products, Services and Presence

L.A. Turbine delivers innovative turboexpander design, manufacturing and testing of application-specific, highly engineered turboexpanders used in hydrocarbon processing, geothermal power generation, industrial gas, power-recovery and refrigeration applications. The company is also a leader in aftermarket service, repair, redesign, maintenance and spare part production for all makes and models of turboexpanders. A global field service team provides commissioning, diagnostic, maintenance and emergency support 24/7/365.

L.A. Turbine's global headquarters are located in Valencia, California with sales and service in both Valencia and Houston, Texas. U.S. staff supports North America, Canada, South America, Asia and Australia. Our European headquarters in Belgium serve the sales and customer service needs of Europe, the Middle East and Africa. The company's client portfolio extends to five continents.

We Offer . . . Expertise, Innovation, Performance, Reliability and Results

- **We deliver.** Since 2003, LAT has been the go-to aftermarket service provider to thousands of global customers regardless of the turboexpander make or model. Since 2007, LAT has sold, engineered, built and delivered 150+ L.A. Turbine turboexpanders, and of those, have commissioned 100+ units.
- **We are innovators, diagnosticians and solution providers.** Our best-in-class engineering team draws from industry experience in rotating equipment, aerospace, transportation and medical devices and gives outside-the-box thinking to turboexpander design, problems and production. In 2018, LAT delivered ARES, the industry's first Active Magnetic Bearing (AMB) turboexpander-compressor with a skid-mounted AMB control panel.
- **We keep our promise.** We design, manufacture, build and test all equipment under one roof at LAT. That means your turboexpander is ready to go upon delivery. Plus delivery is on your timeline, not others. Only LAT holds this unique position within the turboexpander manufacturing marketplace. Our 90,000 sq. ft. facility is equipped with state-of-the-art technology, production equipment and dedicated craftsmen.
- **We bring expertise to your site.** Our field service team represents turboexpander specialists, not generalists, with an average 20+ years of hands-on experience working with all makes and models of turboexpander equipment.
- **We perform, and so do our machines.** Customers give LAT *above average to excellent* scores, year after year, when rating our technical knowledge, accuracy, availability, testing capabilities and performance results.



24/7/365
Support Services

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Turboexpander Configurations & Specifications:

L.A. Turbine provides turboexpander configurations in a range from 3kW to 14MW, capable of handling up to 3000 PSIG, and temperatures between -195°C and 260°C, which include:

➤ Expander/Compressor* ➤ Expander/Generator ➤ Expander/Gear/Generator ➤ Expander/Dyno (Oil Brake)**



Turboexpander Configurations ^{(1) (2)}		EC*/EG/ED	EC/EG/ED	EC/EG/ED	EC/EG	EC/EG	EC/EG
Frame Sizes		L1000	L2000	L3000	L4000	L5000	L6000
Bearing Types ⁽³⁾		Oil	Oil/AMB	Oil/AMB	Oil/AMB	Oil/AMB	Oil/AMB
Inlet Flow (max.)	ACMH (SI Unit)	600	1,500	4,000	7,500	10,000	16,000
	ACFM (English Unit)	350	880	2,350	4,400	5,900	9,400
Inlet Pressure (max.)	BARG	206	206	206	206	206	206
	PSIG	3,000	3,000	3,000	3,000	3,000	3,000
Temperature	Celsius	-195 to 260°C	-195 to 260°C	-195 to 260°C	-195 to 260°C	-195 to 260°C	-195 to 260°C
	Fahrenheit	-320 to 500°F	-320 to 500°F	-320 to 500°F	-320 to 500°F	-320 to 500°F	-320 to 500°F
RPM (max.)		105,000***	52,000	31,000	29,000	18,000	15,000
Seal Types		Labryinth Seal	Labryinth Seal/ Dry Gas	Labryinth Seal/ Dry Gas	Labryinth Seal/ Dry Gas	Labryinth Seal/ Dry Gas	Labryinth Seal/ Dry Gas
Wheel Power (max.)	kW	800 kW	1,500 kW	3,000 kW	6,000 kW	10,000 kW	14,000 kW
	hp	1,070 hp	2,000 hp	4,000 hp	8,000 hp	13,400 hp	18,700 hp

(1) Configurations:

EC* = Expander-Compressor

EG = Expander-Generator

ED** = Expander-Dyno (Oil Brake)

(2) High Pressure/High Power

does not apply on ED equipment

(3) Bearing Types:

AMB = Active Magnetic Bearings

Oil = Oil Bearings

*EC is available with Oil and Active Magnetic Bearings **Operates at a lower power level than the range shown above ***Maximum RPM of 105,000 applicable to ED only

Serving North America, South America, Asia and Australia

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L.A. Turbine
Rethinking Turboexpanders

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