

Corporate Fact Sheet
February 2018



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Company: L.A. Turbine Corporation (LAT)

Founded: January 15, 2003

Celebrating 15 Years of Innovative Turboexpander Design & Service

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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 and other industrial 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, Reliability, Credibility 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 engineered, built and delivered 130+ L.A. Turbine turboexpanders to meet customers' specific application and performance requirements.
- **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.
- **We keep our promise.** We design, manufacture, build and test all equipment under one roof at LAT. That means we deliver machines 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 craftsman.
- **We bring expertise to your site.** Our field service team is made of turboexpander specialists not generalists, with an average 20+ years of hands-on experience working with all makes and models of turboexpander equipment.
- **We perform.** Customers give LAT *above average to excellent* scores, year-after-year, when rating depth and breadth of technical knowledge, accuracy, availability, testing capabilities and performance results.



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
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
Bearing Types ⁽³⁾		Oil	Oil/AMB	Oil/AMB	Oil/AMB	Oil/AMB	Oil/AMB

(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

Office Locations

L.A. Turbine

Headquarters

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Services

Design, Sales, Manufacturing
and Service

Sales, Manufacturing
and Service

Geographic Reach

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America, Asia and Australia

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