

Company Fact Sheet

January 2021



Press Contact:

Shawne Thiry

Marketing

+1 661 294 8290 x1111

SThiry@LATurbine.com

Company: L.A. Turbine Corporation (LAT)

Founded: January 15, 2003

Address: 28557 Industry Drive | Valencia, CA 91355 USA

Phone: +1 661 294 8290

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 LAT and non-LAT turboexpander brands. A global FX-TURBO Field Service Team provides commissioning, diagnostic, maintenance and emergency support 24/7/365 via the +1 855 FX-TURBO Hotline.

L.A. Turbine's global headquarters are located in Valencia, California with sales and service in both Valencia and Houston. U.S. staff supports North America, South America, Asia and Australia. Our European headquarters in Belgium serve the sales and customer service needs of Europe, the Middle East and Africa. In addition, LAT's business partner and agent network provides service and support across six 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 in partnership with our shop craftsman, deliver outside-the-box solutions for turboexpander design, problems and manufacturing. The design and market delivery of ARES, the industry's first active magnetic bearing (AMB) turboexpander-compressor with a skid-mounted AMB control panel, within two years from concept to a tested and fully operational machine, is a testament to their capabilities.
- **We keep our promise.** LAT designs, manufactures, builds, and tests all equipment within its shop so turboexpanders are ready to commission upon delivery. Plus, agreed upon client timelines are not dependent on other vendors as LAT controls the process and deliverables. Only LAT holds this unique position within the turboexpander manufacturing and service marketplace.
- **We bring trustworthy expertise to your site.** Our FX-TURBO Representatives are turboexpander specialists, not generalists, with an average 20+ years of hands-on experience working on LAT and non-LAT turboexpander brands.
- **We perform and so do our machines.** Customers give LAT *above average to excellent* ratings, year after year, when scoring our technical knowledge, accuracy, responsiveness, testing capabilities, and machine performance.



24/7/365
Support Services
+1855 FXTurbo™
+1 855 398 8726
service@LATurbine.com

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

L.A. Turbine

Headquarters

28557 Industry Drive
Valencia, CA 91355 USA
T: +1 661 294 8290
F: +1 888 674 6503
sales@LATurbine.com

Services

Design, Sales,
Manufacturing
and Service

Contact

Danny Mascari
President
DMascari@LATurbine.com

Serving Europe, Middle East and Africa

L.A. Turbine - Europe

Sales & Service Center

Rue des Semailles 22/5
4400 Flémalle BELGIUM
T: +32 4 247 30 11
F: +32 4 290 03 93
saleseurope@LATurbine.com

Services

Sales, Manufacturing
and Service

Contact

Christian Maskaluk
Managing Director
CMaskaluk@LATurbine-europe.com



www.LATurbine.com

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+1 855 398 8726

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SERVICING LAT & NON-OEM BRANDS