

# GL Series Geared Turbo Blower



**Power: 100 to 6,000 HP / 75 to 4,500 kW**

**Flow: 1,000 to 88,000 SCFM / 1,700 to 150,000 nm<sup>3</sup>/h**

**Delta Pressure: 2 to 35 PSI / 0.1 to 2.4 bar**

***Air, Gas, Pressure, Vacuum***

***API 617/672***

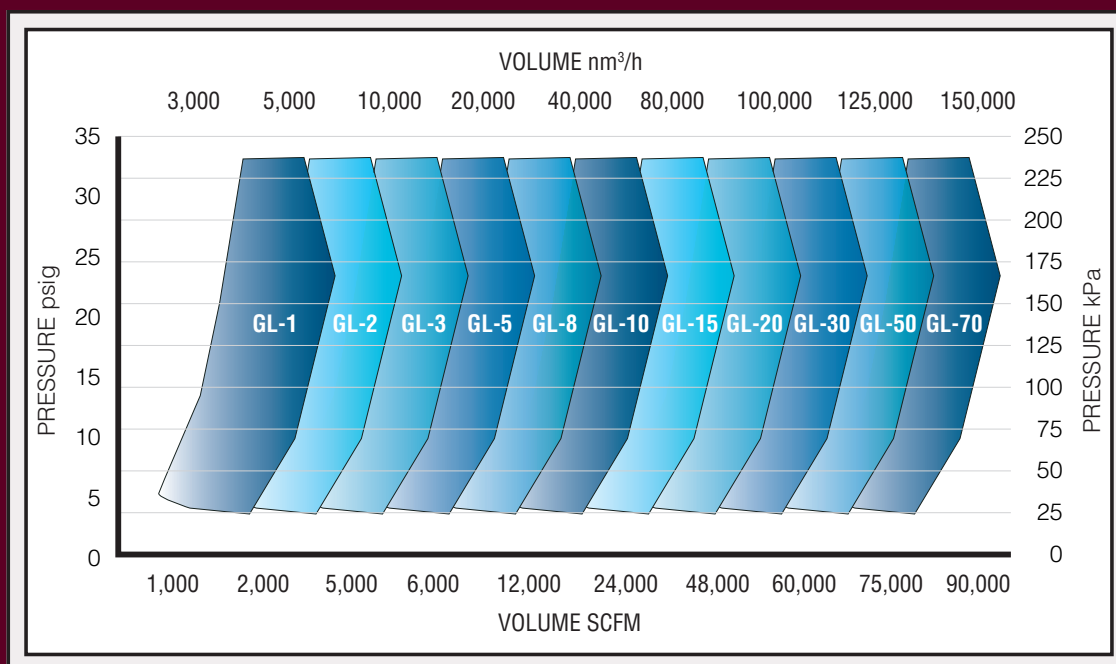
**Your ONE Solution for Blower Systems**

# GL Series Geared Turbo Blower

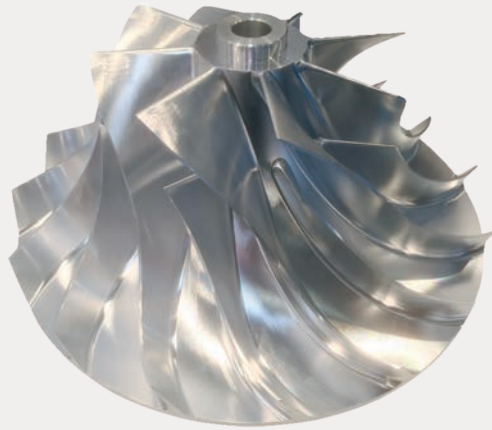
The Lone Star GL Series Geared Turbo Blower has been designed and produced in the USA since 2006. Modern, reliable, and efficient.

## Product Features

- Energy Efficient – Best overall efficiency through entire flow range.
- Wide Turndown Range – Capable of turndown between 100% and 35% of design flow.
- Control – Variable inlet and discharge guide vanes, speed control.
- Tilt Pad Force Lubricated Bearings for proven 30+ year life.
- Quality – API 617/672, ASME PTC13/ISO 5389.
- Oil-Free Process Air or Gas.

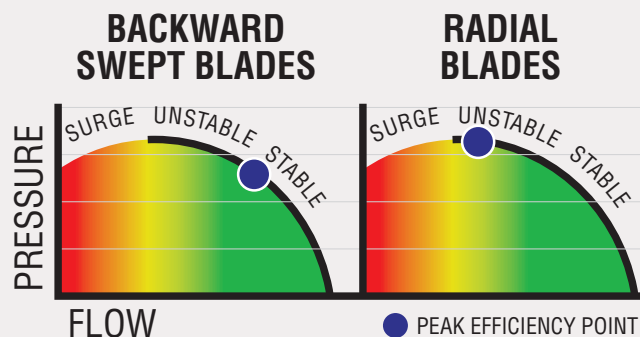


# GL Series Integrally Geared Single Stage Turbo Blower



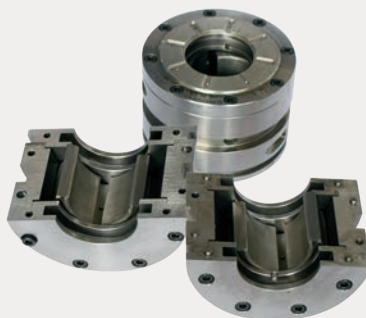
## Aerodynamic Perfection:

Our backward swept impeller design with splitter blades puts the peak efficiency on a stable part of the curve. Having a higher rise to surge allows for safer operation throughout the entire flow range. Radial or Forward Swept impellers are most efficient near surge conditions and are susceptible to tripping the blower off or causing damage.



## INFINITY Bearings:

The GL Series utilize force lubricated tilt pad bearings proven to be a 30-year robust platform. Add SO-INFINITY lubricant and enjoy up to 90,000 hours of constant service between lubricant changes.



# GL Series Integrally Geared Single Stage Turbo Blower



**GL Packaged System**





### Casing

class 30 cast ductile iron

### Vane Actuators

rotary actuators for long life and little maintenance

### Variable Inlet Guide Vanes

regulates flow and pre-rotates to improve flow

### Stainless Vanes, Linkages, and Backplate

anticorrosive properties mean vanes do not stick

### Variable Vane Diffuser

secures stable pressure and allows wide turn down without efficiency loss

### Impeller

backward Curve for better stability and high rise-to-surge; Stainless or Anodized Aluminum

### Shaft and Gears

high and low speed shaft designed to API standards

### Infinity Sleeve Bearings

force lubricated tilt pad and slide sleeve bearings on high and low speed shaft ensure a lifetime of reliable service

### Vane Actuators

rotary actuators for long life and little maintenance

### Lubricant Pump

mechanical lubricant pump self circulates and cools unit

### Integral Gearbox

meets API standards

### Air or Gas Seal

oil free compression and vented or purged seal area



## Applications



Water and Waste Water



Petro-chemical



Utility Power



Food and Beverage



Industrial

## LONE STAR GLOBAL NETWORK

We have locations around the world to serve you



**We manufacture the most advanced line  
of turbo blowers in the world.**

Please visit our website at [www.lonestarblower.com](http://www.lonestarblower.com) or  
call us today regarding your next application.

**GL**

Geared Turbo



**LS**

Multistage Turbo



**DT**

Gearless Turbo



**CS**

Control Systems



**PS**

Packaged Systems



**AM**

Aftermarket



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