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 nm³/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.
Aerodynamic Perfection:
The Lone Star 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

Optional Enclosure

sLOC™ Local Control Panel

Motor

Blower

Auxiliary Lubricant Pump

Lubricant Filter

Lubricant Cooler

Discharge Valve

Check Valve

Inlet Filter/Silencer

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

Lubricant Pump
mechanical
lubricant pump
self circulates and
cools unit

Integral Gearbox
meets API
standards

Vane Actuators
rotary actuators for
long life and little
maintenance

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

Please visit our website at 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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