### Process Gas Applications



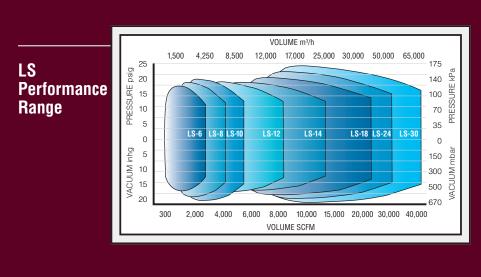
Your ONE Solution for Blower Systems

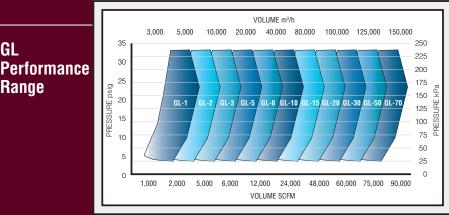
# **Lone Star Knows Process Gas**

Our GL Series Geared Turbo and LS Multistage Turbos were specifically designed with process gas applications in mind for both pressure and vacuum service. From saturated hydrogen sulfide to common biogas we can provide a solution to ensure long term reliability and performance.

Our experienced staff can engineer a custom system to meet your application requirements for proper materials of construction, sealing options, system packaging, documentation and testing. In short, we will provide you with a complete solution.

Our world class ISO 9001 manufacturing and testing facility in Houston, Texas combined with our global network of companies can assist you wherever your application is located.





Applications Landfill Gas **Digester Gas** Hydrogen Sulfide Pure Oxvgen Steam Sour Gas Tail Gas Recovery Sulfur Dioxide Sulfur Recovery Offload Gas Recovery Gas Booster Vapor Control Thermal Oxidation Soil Vapor Remediation Coal Mine Venting Methane Gas Recovery Flare Systems Formaldehyde Gas Natural Gas Ammonia Gas **Chlorine Gas** Nitrogen Flue Gas Carbon Dioxide Gas

## **Lone Star Engineering**

Our engineering group uses the most advanced technologies to design and document each application. Specific materials of construction and coating/plating options can be specified per project according to NACE requirements or other publications. Let the experienced staff of Lone Star Blower provide recommendations and best practices on your next project.

Rotor Dynamics	CFD - Computational Fluid Dynamics	
Torsional Analysis	FEA - Finite Element Analysis	
3D Modeling and Design	PMI - Positive Material Analysis	
XRF - X-ray Fluorescence	Optical Emissions Spectro Analysis	
API, ISO, ASME Published Standards		



#### **GL Series Geared Turbo**

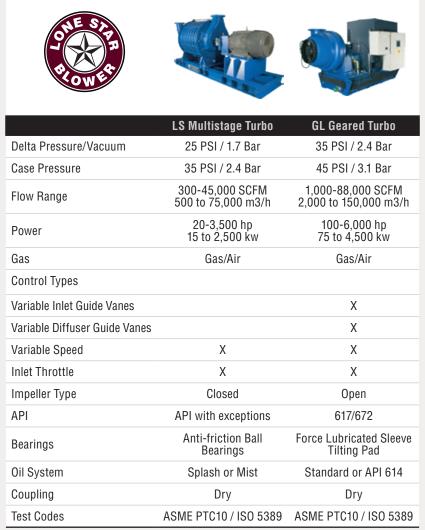
The most proven design in many process gas applications, the GL Series is fully API 617/672 compliant and offers piece of mind. Force lubricated tilt pad sleeve bearings are standard and provide the longest service life with minimal maintenance.



#### LS Series Multistage Turbo

Simple and reliable, the LS Multistage Turbo is a strong asset in gas applications for both pressure and vacuum service. The Lone Star design offers higher process pressures and O-ring seals between cast housings to eliminate leaks, both of which are industry firsts.

#### **LS and GL Specifications**





GL Integrally Geared Single

Stage Turbo Blower

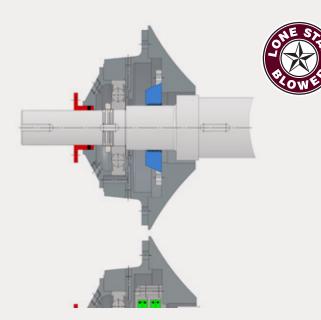
#### **Gas Sealing**

Gas sealing can be accomplished many different ways from dry type seals to a purge system. We offer every type of sealing option and can customize as required. Common seal types consist of **Carbon Ring, Labyrinth** or **Packing Gland**; with or without purge connections.

#### Packaged Systems for Process Gas Application

Lone Star combines our core technologies and offers fully compliant packaged systems engineered for any area classification, including Class 1 Division 1, Zone 0, or ATEX.

Packages can be fully integrated with control systems pre-wired for easy installation and can include process instrumentation, filtration, cooling, recirculation, demisting and automatic drains.





**Represented by:** 



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