

Direct Drive Turbine



Reimagine turbine-powered frac fleets with unmatched efficiency, flexibility, and reliability.

Our new turbine direct drive frac unit brings together efficiency, reliability, and flexibility in one powerful package. A 4,500 SHP turbine drives a 5,000 HP frac pump capable of running on 100% natural gas. With its self-contained design, there's no need for external electrical infrastructure. Our two-speed gearbox allows operators to adapt to changing field conditions, while the turbine's extended overhaul cycle delivers lasting value compared to conventional diesel designs. And with an advanced air intake system that helps protect the turbine from debris, you can count on consistent performance in every operation.

Why Choose the Ideal Direct Drive Turbine?



High HP Density

Deliver more horsepower with a smaller footprint — with less units on location.



Compact & Clean

Smaller than conventional diesel fleets, enabling deployment in space-limited sites while cutting emissions.



Fuel Flexibility

Run on a wide range of natural gas sources — no need for costly external electrical infrastructure.



Built for Reliability

Externally welded design prevents weld failures in the air intake system, while multiple filtration layers extend system life.



Reduced Downtime

Featuring a robust 2-speed gearbox and multi-stage air filtration system to keep operations running smoothly.

Designed for performance

- 4500 SHP turbine powering 5,000 HP frac pump
- Two speed gearbox with neutral for rate flexibility
- Turbine Engine Details
 - SPG4-R Gas Turbine
 - Fuel Flow: 2,028 lb/hr
 - Heat Rate: 11,967 Btu/kWh
 - Exhaust Flow: 28.3 lbm/sec
 - Exhaust Temperature: 1,190°F
 - Thermal Efficiency: 29.0%
 - Pressure Ratio 8.8:1
- Maintenance Overhaul Advantage
 - Turbine overhaul at 30K-40K cycles vs Diesel Engine at 10K-15K cycles
- Capable of accepting multiple 5,000 HP pump models
- Best in class lubrication using VFD controlled pumps
- Unit size: L: 56 ft, W: 8 ft 6 in, H: 13 ft 6 in, Weight: 100,000 lbs