

LIME



ELECTRIC FRAC DESIGN PUMP



LIME INSTRUMENTS

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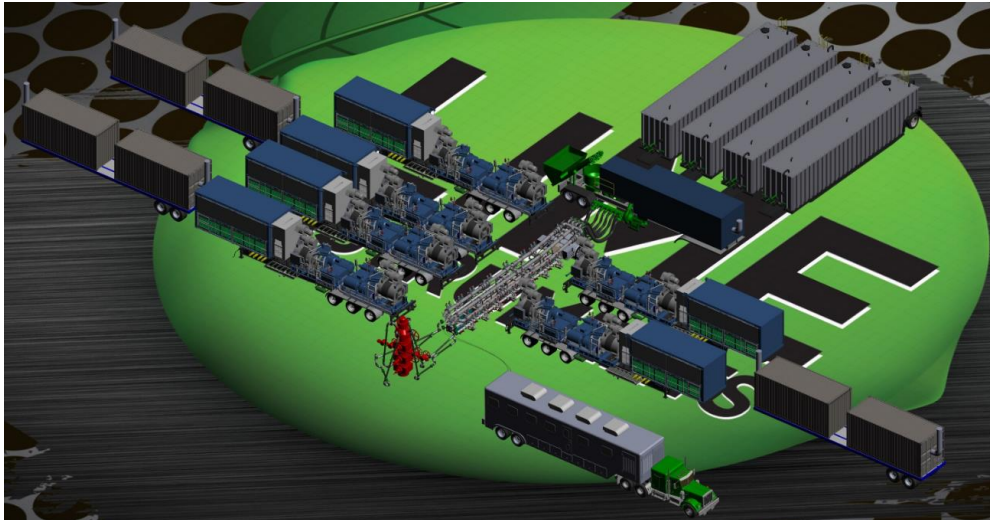
Lime offers a distributed and modular electric frac design that allows for better reliability and better mobility than other proprietary solutions. In addition, this technology can be licensed to any service or manufacturing company. Design includes:

- AC motor
- VFDs
- Generator
- Gas turbine
- Controls system

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ELECTRIC FRAC PUMP

The Lime electric frac pump design removes the traditional diesel engine and transmission from a frac pump and replaces with a direct drive AC motor which improves equipment maintenance needs long term. In addition, distributed power for frac pumps means smaller power packs can be used, which increases system mobility, and the entire spread is not dependent on a single power source.



ELECTRIC FRAC SPECS

- 5,000 HHP per pump trailer
 - Powered by mobile power pack trailer
 - Each power trailer can power (2) pump trailers (10,000 HHP)
- (2) 2,500 HHP GD Thunder pumps
 - 11" stroke
 - Balanced crankshaft - reduces vibrations
 - Field proven GD-3,000
- (2) 2,500 HP motors
 - 4,160 VAC
 - 365 A
 - 19,695 ft/lbs of torque
- 118,000 lbs
- 53' trailer length
- Max pumping pressure, 15,000 PSI
- Rate & Pressure per 5000 HHP
 - 20 barrels @ 8,500 PSI
 - 18 barrels @ 10,000 PSI
 - 15 barrels @ 12,500 PSI

CONTROLS COMPONENTS

- Ruggedized controller with real-time support for deterministic control, logging, and analysis
- (2) Local control boxes, one for each pump
- Customized enclosure protects from heat, water, dust, and other debris
- Capable of linking up to 20 pumps and run them from the climate-controlled cabin

SOFTWARE COMPONENTS

- LIMEPUMP controller is designed to monitor and control turbine, VFDs, generator, and AC motor.
- Job data can be logged and graphed on each individual unit
- Monitors the following:
 - Discharge Pressure, Rate, Total, and Temperatures



BUILDING LEADING-EDGE CONTROLS AND INSTRUMENTATION SYSTEMS