Fracturing Blender

ACCURATELY MIX FLUIDS, ADDITIVES AND PROPPANTS

APPLICATIONS

- Hydraulic fracturing operations
- Acid stimulation operations

FEATURES & BENEFITS

- The manifold was completely re-engineered for increased reliability
- The redesigned tub simplifies maintenance access and potentially allows work to be completed on location
- An enclosed, pressurized cab that improves operator safety
- On-board liquid and dry chemical additive system
- Patent-pending sand distribution system to reduce air ingestion at high sand concentration
- Can run acid through bypass piping and remote actuating valves

OVERVIEW

The fracturing blender is designed to mix and deliver fluids for hydraulic fracturing and acidizing operations. This complete system has been adapted to perform under demanding operating conditions and to integrate with recent advances in fracturing chemistry. It provides a new level of reliability with higher pumping rates, reduced downtime, improved operator safety and increased overall well productivity.

Units are available with delivery to downhole pumps with maximum rates of 125 bbl/min (19.9 m^3/min) with water or 100 bbl/min (15.9 m^3/min) with gelled fluids. Units are horizontally configured with a standard tub for mixing proppants with fluids. They may be winterized to improve performance and protect personnel in extreme cold.

The blender features a modern control system. Precision instrumentation and drive systems provide control of mixing speed, tub leveling, proppant density and flow rate. The electronics have built-in intelligence to accurately manage the unit's operation. It also includes manual backup controls to ensure reliable performance.

TYPICAL SPECIFICATIONS

DECK ENGINE	1,100 BHP (Tier IV available)
SAND DENSITY	Up to 20 lb (2397 kg/m^3)
RATE	Water: 5 to 125 bbl/min (0.8 to 19.9 m^3/min) Gels: 5 to 100 bbl/min (0.8 to 15.9 m^3/min)
SAND RATE	300 to 14,000 lb/min (136 to 6355 kg/min)
LIQUID ADDITIVE SYSTEMS	Up to 25 gal/min (94.6 L/min)
DRY ADDITIVE SYSTEMS	Up to 60 lb/min (27 kg/min)