

HIGH RATE FRACTURING BLENDER – SERIES 100



Sanjel's High Rate Fracturing Blender is custom-designed for high fluid rate and sand rate pumping capabilities, capable of reaching a maximum output of 16 m³/min. The added advantage of this unit is its ability to also pump in the low to mid rate ranges, making the High Rate Fracturing Blender ideal for virtually any hydraulic fracturing operation.

Applications

- Addition of fracturing fluids, chemicals and proppants
- Low, intermediate and high rate capabilities
- Conventional fracturing operations
- Foam fracturing operations
- Fracturing through coiled tubing
- High rate slick water fracturing

Equipment

- 2 – 495 kW 6 cylinder diesel engines
- 10" x 12" centrifugal suction pump with 14" impeller
- All pumps are variable speed, hydraulically-driven through engine PTO system
- High velocity, small volume proppant mixing chamber
- 3 – 12" hydraulically-driven proppant supply augers with low to high range control
- 3 – Hydraulically-driven liquid additive pumps independently controlled and monitored
- Hydraulically-driven dry additive feeder system

Instrumentation and Control Systems

- Sanjel developed PLC or ERAD based control system for automatic operation, providing control and monitoring of:
 - Slurry discharge rate and total
 - Liquid additive rates and totals
 - Dry additive rates and totals
 - Clean fluid rate and total
 - Discharge slurry density
- Manual override feature
- Ability to operate suction and discharge manifolds from driver or passenger side
- Emergency shutdown safety feature
- Compatible with Sanjel developed automatic fueling system

Performance

- Output Range: 0.7 – 16 m³/min
- Maximum Slurry Concentration: 2400 kg/m³
- Maximum Slurry Delivery Rate: 9090 kg/min
- Maximum Boost Pressure: 660 kPa @ 0.7 m³/min (clean water)
- Liquid Additive Delivery Rate: 0 – 66 L/min