

# FRACTURING BLENDER



Sanjel's conventional Fracturing Blender is optimal for all fracturing operations with low to mid range rate treatment design. The blender is designed to provide superior density control and consistent proppant mixing, and has the ability to pump nine different chemicals "on the fly" when combined with Sanjel's Chemical Addition Unit.

## Applications

- Addition of fracturing fluids, chemicals and proppants
- Optimal for low to mid range fracturing rate treatments
- Conventional fracturing operations
- Foam fracturing operations
- Fracturing through coiled tubing

## Equipment

- 6 cylinder diesel engine (375 – 520 kW)
- 3 – Positive displacement liquid additive pumps
- 8" x 10" centrifugal suction pump with 14" impeller
- All pumps are variable speed, hydraulically-driven through engine PTO system
- High velocity, small volume proppant mixing chamber
- 2 – 12" hydraulically-driven proppant supply augers
- Hydraulically-driven dry additive feeder

## 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 – 11.2 m<sup>3</sup>/min
- Maximum Slurry Concentration: 2400 kg/m<sup>3</sup>
- Maximum Slurry Delivery Rate: 4000 kg/min
- Maximum Boost Pressure: 523 kPa @ 0.7 m<sup>3</sup>/min (clean water)
- Liquid Additive Delivery Rate: 0 – 38 L/min