

TRIPLEX PUMPING UNIT



Sanjel's Triplex Pumping Unit is a high-pressure pumping unit with a high power to weight ratio, capable of pumping fluid or carbon dioxide for virtually all hydraulic fracturing operations. Equipped with a triplex pump in place of the traditional quinteplex unit, Sanjel's Triplex pumping unit is capable of achieving near quinteplex flow rates using fewer pump cycles, thanks to its longer pump stroke and stronger components. This pump configuration means less overall wear on expendables and improved pump durability, translating to less downtime and a more versatile pumping package.

Applications

- High pressure pumping of fluid or CO₂
- Conventional fracturing operations
- Foam fracturing operations
- Fracturing through coiled tubing
- High rate slick water fracturing

Equipment

- 1865 kW 12 cylinder diesel engine
- 2237 kW input rated transmission
- SPM TWS2500 Triplex Destiny pump
- 3" Fig. 1502 discharge iron package

Instrumentation and Control Systems

- Automated PLC control system featuring:
 - Auto rate control capability
 - Auto pressure control capability
 - Electronic overpressure protection
 - Emergency shutdown safety feature
 - Pre-warming capability for engine, transmission and pump to reduce delay time on location
 - Ability to operate unit remotely or from local control panel
 - Multi-unit control by single operator
- Compatible with Sanjel developed automatic fueling system

Performance

- Maximum Rate: 1.6 m³/min @ 56 MPa with 102 mm plunger
- Maximum Pressure: 103 MPa @ 0.8 m³/min with 102 mm plunger

Pumped Fluid Compatibility

- Water
- Gelled fluids
- Hydrocarbon fluids
- CO₂
- Acid