FALIZ PAJOUHESH PARS CO.



F3.B2

Trailer Mounted Cementing Unit

This is a double pump cementing unit equipped with plunger triplex pumps that is mounted on a semi-trailer chassis. The high energy mixing system and other hydraulic equipment is powered by an auxiliary diesel engine that installed on the deck. This unit is mainly utilized for cementing, acidizing, pressure testing and other fluid pumping jobs.

Dimensions & Weights

(Trailer only) [L] 11.9 m [W] 2.6 m [H] 4.5 m [Weight] 28500 kg

Technical Specification

Max. working pressure: 14000 psi (with 4" fluid end of TPH400 pump)
Max. flow rate: 17.2 BPM (with 4.5"+4" fluid end of TPH400 pump)
Density range: 1.3 ~ 2.5 g/cm³
Mixing capacity: 0.3 ~ 2.3 m³/min
Working ambient temperature: -20°C ~ +55°C
Displacement tank capacity: 20 bbl (2x10 bbl)
Mixing tank capacity: 8 bbl

Main Equipment

* Main diesel engines: 2x Detroit Diesel S60 600 HP @ 2100 rpm; 2x Caterpillar C15 540 HP (optional); 2x Caterpillar C13 475 HP (optional); 2x OM502LA 600 HP @ 2100 rpm (optional)
* Transmission: 2x Allison 4700 OFS; 2x ZF TC Tronic (optional)
* Triplex Plunger pump: 2x Serva TPH400 [4" & 4.5" fluid end]; optional TPD600 / WET-TWS600
* Auxiliary diesel engine: 1x Caterpillar C7 300 HP or equivalent
* Centrifugal pumps: 2x Serva 6x5x11 (Recirculation & Boost); 1x Serva 4x3x13 (Mix water); optional NOV Magnum Mission / Abran Sanat
* Densitometer: 1x Emerson Micromotion F300 (Non-radioactive)
* Mixer: 1x High energy mixing injector

Features

* Control room with air conditioner (optional)
* High energy recirculation jet mixing system
* Off-center dry cement valve avoids bulk cement from chocking
* Emergency shutdown system of air inlet shut off
* Plunger pump over pressure mechanical protection system
* Plunger pump over pressure electronic protection system
* Simplify operation, adapts to working habits in oilfield
* PLC-based control system with 12" operation screen
* Level indicator & level transmitter for displacement / mixing tank
* Barrel counter for displacement tank
* Sight glass for fuel tank, hydraulic oil reservoir and lubrication tank
* Stainless steel control panel with engraved words in english
* Air actuated butterfly valves
* High pressure manifold 15000 psi
* Turbine flowmeters for water & slurry
* 15000 psi Protector meters & 6" dial gauges for pressure indicating system
* Hydraulic oil cooler with electrical fan

Note

Layout of equipment is variable according to type of selected plunger pumps.

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