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F3.A2

Skid Mounted Batch Mixing Unit

Batch and continuous mixing skid utilizes auto density control module which is the latest in mixing and density control technology. It can realize batch mixing and continuous supplying the slurry to a cementing pumper.

Working Process

1. Continuous mixing operation: deliver mixed slurry from mixing tank to triplex pump's suction directly via transfer pump of cementing equipment.
2. Batch mixing operation: deliver mixed slurry from mixing tank to the two batch mixing tanks alternately, to realize batch mixing and continuous supplying.
3. Special slurry mixing: for special formula slurry (such as high density slurry), it can use the regular density slurry as the basic fluid, add weight additive through hopper on the top of unit, and then recirculate it in unit via recirculating pump.

Dimensions & Weights

[L] 7.85 m [W] 2.5 m [H] 3.3 m [Weight] 12000 kg

Technical Specification

Mixing Capability: 0.3 ~ 2.3 m^3/min
Density range: 1.3 ~ 2.5 g/cm^3
Auto control precision: +/- 0.02 g/cm^3
Batch mixing tank volume: 2x 50 bbl
Mixing tank volume: 8 bbl
Working ambient temperature: -20°C ~ +55°C

Main Equipment

* Engine: caterpillar C7 300 HP@2200 RPM or equivalent
* Gear box: Funk 59000 series
* Hydraulic system: Eaton heavy close hydraulic system
* Slurry recirculating pump: Serva 6x5 or equivalent
* Booster/transfer pump: Serva 6x5 or equivalent
* Mixing water pump: Serva 4X3 or equivalent
* Mixing system: high energy mixing injector
* Control system: Auto density control system

Features

* Continuous / Batch mixing, manual / auto control
* Utilizes new high energy mixing technology. Slurry enters into batch mixing tank via high energy mixing system and then average to ensure the stable quality of slurry.
* Adopts the international popular configuration 2x50BBL, and install large power agitator in each tank.
* Equipped with anti-impact and lifting frame, for easy transporting and hoisting.

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