

# PCS-611A Auto density control single pump cementing skid

## 1. Overview

PCS-611A Auto density control single pump cementing skid is new generation of cementing unit with adoption of long TPC600 pump and ACM auto mixing system.

The prominent feature of extended TPC600 plunger pump is based on the merits of TPB plunger pump, it makes packing replacement and maintenance easier so it is the ideal pump for single pump unit.

## 2. General specification

Max. working Pressure: 44MPa(w/ 4 1/2" fluid end)

Max. Flow: 2.1m<sup>3</sup>/min (w/ 4 1/2" fluid end)

Density range: 1.3-2.5g/cm<sup>3</sup>

Auto control precision: ±0.02 g/cm<sup>3</sup>

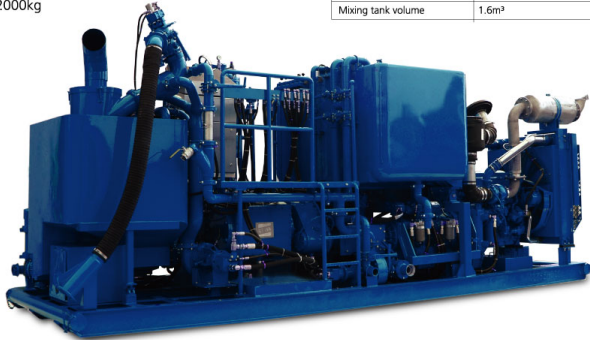
Mixing capacity: 0.3-2.0m<sup>3</sup>/min

Working ambient temperature: -20°C ~ 50°C

Overall dimension (mm): 6300(L) x2300(W) x3100(H)

Net weight: 12000kg

Configuration	
Engine	Caterpillar C13 475hp@2100rpm
Transmission	Allison 4700 OFS
Triplex pump	SERVA TPC600x4.5"
Power unit	Cummins hydraulic power unit 6BT5.9A 180HP @2500RPM
Mixing system	High energy recirculating Jet mixing system
Density Control system	ACM-III.1 Auto control system
Slurry recirculating pump	Serva RA56
Booster centrifugal pump	Serva RA45
Mixing water pump	Serva RB23
Displacement tank	2x10 BBL stainless steel tank
Mixing tank volume	1.6m <sup>3</sup>



## 3. Features

- The skid adopts long TPC600 plunger pump which makes packing maintenance easier.
- The mixing power is supplied by independent power unit which increases the actual operation power of main engine.
- The power sources of slurry recirculating pump and triplex pump are independent, so slurry quality is not affected by the fluctuation of triplex pump pressure or flow rate.
- Dedicated booster centrifugal pump makes recirculating system and booster system mutually independent, and thus avoid two systems influencing each other and improve the quality of mixing.
- High energy recirculating jet mixing system.
- Off-center dry cement valve avoids bulk cement from choking effectively.
- Emergency kill system of air inlet shutoff.
- F300 Non-radioactive densitometer is easy to wash, safe and reliable.
- Simplify operation, adapts to working habits in oilfield.
- 10" operation screen, convenient to monitor the working data.
- Portable wireless/ wired data acquisition system available.