PCT-621A Double pump cementing truck

1. Overview

PCT-621A double pump cementing truck adopts TPB600 pump with the features of compact structure and light weight, with standard configuration of VOLVO FM440 6X6 chassis.

SERVA TPB600 pump has prominent features of smaller volume and lighter weight. With two pump back to back installation, the overall width will only be 2580mm which can extremely decrease the overall dimension (weight) of unit, especially applicable to truck-mounted units or offshore equipments.

2.General specification

Max. working pressure:

Max. pressure: 69 MPa(w/ 3 1/2" fluid end) Max. pressure 97.5 MPa (w/ 3" fluid end Max. flow: 3.0 m3/min(w/ one 3" and one 4 1/2" Fluid End

3.4 m³/min(w/ two 3 1/2" and one 4 1/2" Fluid Ends)

Density range: 1.3-2.5g/cm3

Auto control precision: ±0.02 a/cm3

Mixing capacity: 0.3-2.3m3/min

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

Overall dimension (mm): 11450(L) x 2600(W) x 4200 (H) Net weight: 30000kg

3.Features

- 1m³ surge tank avalible, utilized to make bulk cement. delivery more stable so as to improve the accuracy of auto control system and slurry quality.
- The mixing power is partially supplied by chassis which increases the actual operation power of main engine.
- · High energy recirculating jet mixing system.
- Off-center dry cement valve avoids bulk cement from choking.
- Emergency kill system of air inlet shutoff.
- · SPS non-leakage packing system.
- Plunger pump overpressure protection system.
- 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.
- Diesel fired coolant pre-heat system available. The heater allows the engine to be preheated before starting without the use of

lectifical specific						
Chassis	VOLVO FM440 6X6					
Engine	Caterpillar C13 475 HP@2100 RPM (2 sets)					
	Caterpillar C15 540 HP@2100 RPM (optional)					
	Detroit S60 475HP@2100RPM (optional)					
Transmission	Allision 4700OFS (5 forward gears + neutral gear) (2sets)					
Hydraulic system	driven by chassis and deck transmission PTO, closed loop for c-pumps, open loop for					
agitators						
Triplex pump (2	sets)					
Model/type	SERVA TPB600 Reciprocal, horizontal single action plunger pump					
Stroke	6"(152.4mm)					
Max. B.H.P.	600 BHP (447Kw)					
Gear ratio	4.6:1					
Fluid End	3*		3 1/2"	4"	4 1/2"	
	14,140PSI(97.5Mpa)		10,000PSI(69Mpa)	7,958PSI (56.1Mpa)	6,290PSI(43.4Mpa)	
Max. flow	0.95	m³/min	1.27 m³/min	1.67 m³/min	2.13 m³/min	
ACM-III.1mixing	system					
Mixer		High energy recirculating jet mixer				
Dry cement valve		Off-center bulk cement metering valve				
Mixing Water pump		SERVA 4X3 (1.5 m³/min@0.78MPa)				
Slurry recirculating	ng/booster p	ump SERV	A RA56 (3.7 m³/min@	0.45MPa) (two sets)		
Densitometer Mi		Micro Mot	Micro Motion 3" F300 non-radioactive densitometer			
Computer system		AB PLC				
Others						
Mixing tank	8 BBL (1.4 m ³)		Fu	Fuel tank		
Average tank	tank 20 BBL (2 x1.5 n		f) Hydraulic oil tank		170 L	
Measuring tank 2x10 BB		BBL (2x1.5 i	m³) Air tank		80L	

