

PCT-521A Double Pump Cementing Truck



The PCT-521A system is a truck mounted complete mixing and pumping unit. This unit is state-of-the-art in mixing and automatic control. The quality of design, component selection, and quality manufacture makes it a benchmark in the industry. The high energy mixing system can mix the most difficult slurries and the ACM automatic density control will provide superior density control. The pump unit can be utilized for a variety of pumping services including acidizing, cementing, pressure testing and fracturing within the limits of the available horsepower. The inline triplex pump installation makes the maintenance and service of pumps easier. This system is designed for minimum maintenance and operating in extremely harsh environment with temperatures ranging from -30°C to 50°C and relative humidity up to 90%.

GENERAL SPECIFICATION

Weight	33 t
Dimension	11450 mm(L)X2600mm(W)X4200 mm(H)
Max. Pres	14,000 psi(96.5 MPa, 4" fluid end)
	11,200 psi(76 MPa, 4 1/2" fluid end)
Max. Flow	2.7 m ³ /min(one 4" and one 4 1/2" Fluid End)
	3.0 m ³ /min(two 4 1/2" Fluid End)

Density Range	1.0~2.6 g/cm ³ ±0.024 g/cm ³
Mixing Capacity	0~14.5 BPM(0-2.3 m ³ /min)
Working Temp.	-30°C~50°C
Working Time	>2 Hours (Under Max. Press): >3 hours (Under Max. Flow)

TECHNICAL SPECIFICATION			
Truck Chassis	Volvo FM440 6X6, left drive		
Chassis Engine	D13 or higher		
Chassis Transmission	VT2514B or higher, 14 forward+ 2 reverse gear		
Deck Engine	Caterpillar C13 475 HP@2100 RPM(2 sets)		
Deck Transmission	Allision 4700OFS(2sets, 5 forward+ neutral gear)		
Hydraulic System	Deck transmission PTO driven, closed loop for c-pumps, open loop for agitators		
TRIPLEX PUMP			
Model No.	SERVA TPH400		
Stroke	8"(203.2mm)		
Max Brake HP	600BHP(447Kw)		
Gear Ratio	8.6:1		
Fluid End	4"	4 1/2"	
Working Pressure(psi)	14,000	11,200	
Max. rate (bpm)	7.6	9.6	
ACM-III MIXING SYSTEM			
Mixer	High energy, recirculating jet mixer		
Mixing Water Pump	MISSION 4X3		
Rec/Trans Pump	SERVA RA56		
Densitometer	Micro Motion 3" non-radioactive densitometer		
Computer System	AB industrial computer		
TANK VOLUMES			
Mixing Tank	10 bbl	Fuel Tank	82+142gal

Displacement Tank	2X10 bbl	Hydraulic Tank	90 gal
		Air Tank	20 gal

OPTIONS:

1. Deck Engine: Detroit S60 engine, 475HP@2100 RPM
2. ACM-IV, ACM-V density control system available.
3. Remote monitoring and data record system available.

KEY POINTS

- Heavy-duty, Desert Type Truck
- Continuous High Energy Recirculating Mixing system
- ACM Auto Density Control
- Air Inlet Shutoff
- Overpressure Protection
- Close-loop hydraulic system
- SPS Packing system
- Non-Radioactive Densitometer
- Stainless Steel Console
- Engraved Stainless Panel
- Liquid-filled and Dual Scale Gauges
- Remote Monitoring and Data Record System available
- Two Triplex Pump back to back installation
- Cold start aid, air or hydraulic starter on request

Integral high pressure iron