

Trailer Mounted Cementing Equipment

As an economic and fast-moveable cementing unit, the trailer mounted cementing equipment is applied to land oilfield operation in remote areas, such as desert.

Based upon different operating conditions, three modern plunger pumps with various plunger sizes are optional: TPA400, TPH400 and TPB600.

PCTLR-521A Auto Density Control Double Pump Cementing Trailer



The Model PCTLR-521A system is a trailer mounted complete mixing and pumping unit. It is designed with an auxiliary hydraulic power unit for supplying sufficient mixing energy and pump capacity. 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 automatic density control will provide superior density control. The in-line triplex pump installation makes the maintenance and service of pumps easier.

GENERAL SPECIFICATION

Weight	23.2 t (51,000 lbs)
Overall Dimension	36.9 ft (L) x 8.2 ft (W) x 13.5 ft (H)
Max.Pressure	11,200 psi (with 4 1/2" fluid end)

Max.Flow	19.2 bpm (w/2 4 1/2"fluid end)
Density Range	8.32-22.5 ppg ± 0.2 ppg
Mixing Capacity	0 ~ 12.6 bpm
Working Temp.	-30°C ~ 50°C
Working Time	>2 hours (under max.press); >3 hours (under max.flow)

SPECIFICATION					
Trailer Chassis	King Pin	2" (50)		Tire	11.00-20
	Height of Saddle	1390mm		Support Legs	JOST
	Axle	bpw 14010 (2EA)		Wheel Base	51.2"
Deck Engine	Caterpillar C13 475hp@2100rpm (2EA)				
Aux. Engine	Caterpillar C7 300hp@2200rpm (1EA)				
Transmission	Allision 4700 OFS (5 Forward+neutral) (2EA)				
Hydraulics	Auxiliary engine driven open loop for c-pumps, closed loop for agitators				
TRIPLEX PUMP					
Model	SERVA TPH400				
Stroke	8" (203.2mm)				
Max. Hp	600 bhp (447Kw)				
Gear Ratio	8.6:1				
Fluid End	4 1/2"	3 3/8" *	4"	5" *	6" *
Work Pressure (psi)	11,200	20,000	13,600	8,700	6,000
Max.Flow (gpm)	9.6	5.4	7.6	11.9	17
ACM-III MIXING SYSTEM					
Mixer	High energy recirculation mixer				
Water Pump	MISSION 4X3				
Recir/Boost C-Pumps	SERVA RA56				
Densitometer	Micro motion 3" non-radioactive densitometer				
Controls	AB industrial micro processor				

TANK VOLUMES			
Mixing Tub	7.5 bbl (1.2 m ³)	Fuel tank	238 gals
Disp. Tank	2x10 bbl (2x1.5 m ³)	Hyd. tank	2x45 gals
		Air tank	20 gals

NOTE: Please consult manufacturer for items with ""**

KEY POINTS

- Continuous high energy mixing
- Auto density control
- Air inlet shutoff
- Overpressure shutdown
- SPS packing system
- Non-radioactive densitometer
- Stainless steel console
- Engraved stainless steel panel
- Dual scale gauges
- Remote monitoring and data record system available
- Cold start aid, air starter, hydraulic starter on request
- Integral high pressure iron

Auxiliary power pack