



SERVAcementing® PCS-421B Auto Density Control Double Pump Cementing Skid

GENERAL SPECIFICATIONS

Weight..... 21.5 t
 Dimension....24 ft (L) x 8.2 ft (W) x 10.33 ft (H)
 Max.Pressure.....10,000 psi (with 3 3/4" fluid end)
 Max.Flow.....20.6 bpm (w/2 5"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)

CONFIGURATION

Main Engine.....Caterpillar C13 475hp@2100rpm (2 sets)
 Transmission..... Allison 4700 OFS (5 forward+neutral)(2 sets)
 Hydraulics.....Transmission PTO driven, closed loop for c-pumps, open loop for agitators

TRIPLEX PUMP

Model No.....SERVA TPA400 triplex pump
 Stroke.....5" (127mm)
 Max. Brake Hp.....350 bhp (257kw)
 Chain Case Ratio.....27 : 40
 Gear Ratio......25 : 108
 Fluid End......3 3/4" 4 1/2" 5"
 Max.Pressure.....10,000 7,000 5,500
 Max.Flow Rate......5.8 8.4 10.3

ACM®-III MIXING SYSTEM

Mixer Type.....High energy recirculation mixer
 Dry Cement Valve.....Off-center linear cement metering valve
 Water Pump.....MISSION 4X3
 Recirculating and Boost Pump...SERVA RA56
 Densitometer.....Micro motion 3" non-radioactive densitometer
 Controls.....Allen Bradley programmable controller

TANK VOLUMES:

Mixing Tub.....14 bbl (2.2 m3)
 Fuel tank.....238 gals
 Displacement.....2x10 bbl (2x1.5 m3)
 Hydrualic tank.....45 gals
 Air tank.....20 gals

OPTIONS:

1. Engine: Detroit Diesel s60 475 hp@2100rpm
2. Radiator and fan cooling system
Sea Water cooling system
3. ACM®-IV density control system (ACM®-III + tub level control)
ACM®-V density control system
4. Auxiliary hydraulic power pack
Engine: CAT C7(300hp@2200rpm)
Weight: 2.4t
Dimensions: 9 ft.X 4 ft. X 6 ft.

KEY FEATURES:

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
 PTO driven hydraulic system