



**SERVAcementing® PCTLR-721B AUTOMATED TRAILER MOUNTED TWIN CEMENTING UNIT**

**PERFORMANCE SPECIFICATIONS**

Serva TPD 600S Triplex Pump with 3.5" and 4" Plungers  
 Maximum Working Pressure 10,400 PSI  
 Maximum Flow Rate 8.02 BBL / MIN

**MAJOR COMPONENTS**

**MAIN ENGINES**

Cat C-18.....630 BHP  
 Heavy Duty Radiator  
 Air Compressor  
 24V Electric Start

**TRANSMISSIONS**

Allison Automatic 6610  
 Five Speeds  
 1st 4.00:1  
 2nd 2.68:1  
 3rd 2.01:1  
 4th 1.35:1  
 5th 1.00:1

**HYDRAULIC POWER PACK**

Cat C-7 250 HP  
 24 Volt electric Start  
 Three Output Drive Box Mounted On Rear Of Engine

**FLUID HANDLING SYSTEMS**

**DISPLACEMENT TANKS**

Two Compartment, 10 bbls each  
 Open Top With Splash Rail and Bracing  
 Steel Construction  
 Permanently Mounted Gauge Markers  
 Suction Line Sumps Included  
 Fill Lines and Valves Installed to Each Tank

Release, Return Lines Installed to Allow Flow to Either Tank

Quick Opening Drain Valves Installed

**LOW PRESSURE MANIFOLDING**

Schedule 40 Steel 4" and 6" Diameter Piping  
 Victualic Coupling Installed to Allow For Disassembly and Cleaning

Weco Unions Installed

Remote Air Actuated Valves Installed

**CEMENT MIXING SYSTEM**

4" X 3" Mission Mixing Fresh Water Centrifugal Hydraulic Drive and Controls  
 Adjustable Orifice for Mixing Water Control

6" X 5" Mission Reculation Centrifugal

**PRESSURIZATION PUMP**

2 Each Mission 5" X 4" Centrifugal  
 Provides Supercharge for Triplex Pumps and Fluid Transfer

**TRIPEX SUCTION MANIFOLD**

Independent Suction Manifold for each Triplex  
 Suction Manifold is Connected to the Discharge of the Pressurizer Pump  
 Manifold allows Suction form the Cement Mixing Tank, Displacement Tanks or External Sources Equipped with Victualic Couplings for ease of Disassembly for Cleaning

**HIGH PRESSURE RELEASE MANIFOLD**

Release Manifold Connection to Discharge Trunnion of each Triplex  
 Maximum Working Pressure of 15,000 PSI (1054 kg/cm<sup>2</sup>)  
 Two each 2" x 1" Valves installed in Release Line to allow Fluid to be Diverted into the Return Manifold on the Displacement Tanks



**SERVAcementing® PCTLR-721B AUTOMATED TRAILER MOUNTED TWIN CEMENTING UNIT**

**PERFORMANCE SPECIFICATIONS**

**HIGH PRESSURE DISCHARGE MANIFOLD**

Discharge Manifold Connection to Discharge Trunnion of each Triplex  
 Maximum Working Pressure of 15,000 PSI (1054 kg/cm<sup>2</sup>)  
 Manifold Arrangement allows Discharge from each Pump separately or combined  
 Each Pump Discharge has 2" x 2" High Pressure Plug Valve installed  
 Safety Relief Valve installed on Manifold

**TRIPLEX PUMPS**

Two each SERVA TPD 600S Triplex Pumps  
 Rated as 600 HHP Continuous Duty each 6 Inch Stroke  
 Reduction Gear Box 4.6:1  
 Plunger Lube Oil Tank with Air Regulator and Control Valve  
 Power End Lube Oil Pump Driven from Allison Transmission

3.5" and 4" Plungers  
 Maximum Pressure 10,400 psi @ 1.79 BBL/MIN  
 Maximum Rate 2,280 psi @ 8.02 BBL/MIN

**TRAILER**

44' Mertz  
 48,000 lb. Rear Tandem Axle

**OPERATOR CONTROL CONSOLE**

Control Console is mounted between Displacement Tanks and Triplex Pumps  
 Control Console is fabricated from Non Corrosive Materials

Panel is Permanently Engraved  
 Protective Steel Cover is Included

**GAUGES AND CONTROLS**

Data Acquisition System  
 Engine Oil Pressure x 3  
 Engine Water Temperature x 3  
 Emergency Kill  
 Engine Start / Stop x 3  
 Engine Throttle x 3  
 Engine Tachometer x 3  
 Transmission Shifter x 2  
 Triplex Discharge Pressure Gauges w / Over – pressure Shutdown x 2  
 Centrifugal Pump Speed Control x 4  
 Centrifugal Pump Pressure x 4  
 Hydraulic Pressure Gauges  
 Hydraulic Temperature Gauges  
 Air Pressure Gauge  
 Ammeter Gauge  
 24 hour Work Light Switch  
 Triplex Lube Oil Pressure x 2  
 Triplex Lube Oil Temperature x 2  
 Transmission Oil Pressure x 2  
 Transmission Oil Temperature x 2  
 Transmission Lock Up Indicator Lamp x 2  
 Remote Actuators for Low Pressure Butterfly Valves  
 Backup Martin-Decker Gauges x2  
 Backup MC-II Rate Gauges x2  
 Backup Density Gauges x2

**AUTOMATION**

Serva ACM III package with training.