

Well Service Pump Skid



The Wilco™ well service pump skid is a customer-configurable well service pumping unit designed for various applications, including cementing, acidizing, and coiled tubing support operations. Diesel engine, transmission, triplex pump, and manifolding are tailored to meet our customers' applications and specifications. The standard WSP package includes a 595-hp diesel engine and 600 short triplex pump. In addition, the WSP has a lift frame and skid designed per (and optionally certified to) the requirements of DNV 2.7-1 for portable offshore units.

Power system

- Cummins QSX15 Export (Tier 3 equivalent) 665-hp (495-kW) or Cat C15 Export (Tier 3 equivalent) 595-hp (444-kW) diesel engine
- 4700 OFS series Allison Transmission
- 150-gal (568-liter) fuel tank
- Engine equipped with automatic shut-off system (ASO) that cuts engine airflow if high engine speed (rpm), high engine coolant temperature, or low engine oil pressure is encountered
- Spark arrestor muffler; cooling system to cool engine jacket water/charge air and transmission oil systems

High-pressure triplex pump

- Southern Stimulation SS-600 triplex pump (equivalent to HT-400) or Weir SPM TWS600S HD triplex pump
- Fluid end can be selected to match the customer's required rate and pressure
- Unit shall include a power end lubrication system to lubricate and cool the triplex pump power end whenever the diesel engine is running
- Unit equipped with a fluid end plunger grease injection system activated when the transmission is put into gear and pumping begins

Control system

Control console controls engine, transmission, and any additional equipment from a single location

Manifold

Low-pressure suction and high-pressure discharge manifolds can be specified by customer

Lift frame (Optional DNV 2.7-1 certification)

Lift frame and skid structure are built from rectangular steel—the skid base includes tow bars on each end, forklift pockets, and drip tray. The lift frame has lift eyes located in the four corners of the frame. Structural members are welded using certified welding procedures.

Paint

Unit painted with Wilco 4-coat offshore paint system with customer colors

Quality management and certifications

ISO-90001 certification