

600 HHP Enclosed Single Pumper – Tech Spec Sheet



Well Service Pumping Unit — Split Configuration

Model: TWS600-HD / GD-600-HD

Application: Cementing, Acidizing, Gravel Packing, Snubbing

1. Main Pump – *SPM® TWS 600S HD*

- **Max Brake Horsepower:** 600 BHP (447 kW)
- **Rod Load Capacity:** 106,029 lbf (47.2 metric tons)
- **Stroke Length:** 6" (152.4 mm)
- **Gear Ratio:** 4.610:1
- **Dry Weight:** 4,600 lb (2,086 kg)
- **Dimensions (L x W x H):** 50" x 53" x 24" (1,270 mm x 1,346 mm x 610 mm)
- **There are two fluid end skids:**
 - 2.75" plunger
 - 4.0" plunger
- **Displacement Range:** 0.38–1.24 gal/rev (1.4–4.7 L/rev)
- **Features:**
 - Retrofit-compatible
 - Improved lubrication and seal life
 - Reduced reciprocating mass
 - Knuckle bearing design for load distribution

2. Engine – Caterpillar **C15 ACERT™**

- **Power Rating:** 400 bkW / 536 bhp @ 1800–2000 rpm
- **Displacement:** 15.2 L (928 in³)
- **Torque:** 2,437 N·m / 1,797 lb-ft @ 1350 rpm
- **Aspiration:** Turbocharged – Aftercooled
- **Governor:** Electronic ADEM™ A4
- **Emission Standards:**
 - IMO Tier II
 - EPA Marine Tier 3
- **Cooling System Capacity:** 34 L (36 qt)
- **Lube Oil Capacity:** 75 L (79.25 qt)
- **Oil Change Interval:** 500 hours
- **Rotation (Flywheel End):** Counterclockwise
- **Dimensions (L x W x H):** 2617 x 1732 x 2095 mm (103" x 68.2" x 82.5")
- **Dry Weight:** 5,300 kg (11,650 lb)
- **Safety & Certifications:**
 - Class I Div 2 (NEC 500), Class I Zone 2 (NEC 505), ATEX Group II, Category 3G
 - Flameproof intake system
 - Electrical connectors intrinsically safe for Zone 2

3. Frame & Structure

- **Base Frame Drawing:** Included
- **Pad Eyes Pull Test Cert.:** Included
- **Pull Test Certificate:** Included

4. Electrical & Control

- **Electrical Schematic:** Included
- **Control System:**
 - ADEM A4 with J1939 CAN
 - Optional PCS2 board / Messenger display / 3GP safety system

5. Other Equipment

- **Alternator:** 24V, 35A or 65A (Zone 2 compliant)
- **Battery Pack:** 24V 55Ah, EX d e II T4 rated
- **Cooling Package:** Offshore-rated, 45°C ambient capability