Well Servicing Equipment Solutions
Southwest Oilfield Products is proud to introduce its full line of well-servicing equipment solutions and fracturing pumps. With quality and technology at the forefront, our well-servicing units are manufactured at our Fort Worth, TX facility (USA) with a focus on long-lasting construction and materials to stand up to your toughest well treatment projects.

**OUR UNIT offerings include:**

- **NITROGEN PUMPING**
  - Coil tubing
- **SNUBBING**
  - Twin Pumping
- **WIRELINE**
  - Hydration
- **BLENDING**
  - Acidizing and more…
Southwest Oilfield Products Nitrogen pumping and vaporizing system is a fully self-contained, climate-controlled, trailer-mounted unit.

Overview
To ensure the most reliable operating experience, our Nitrogen pumping units utilize the most proven and reputable components on the market such as ACD™ brand triplex, coldends and liquid nitrogen centrifugal pumps. Depending on the isolation or control function, our Nitrogen unit features a variety of valve types including manual, electrical and pneumatic to provide operational ease along with a safe work environment. The 3000 gallon liquid nitrogen storage capacity ensures ample supply for even the largest projects and our units also feature Autoclave™ and Bu-tech™ type high pressure 316 & 304 stainless steel lines.

Our user friendly control panel has many value-added features to help operators run the unit as efficiently as possible.

Control Panel Features
- Pressure Monitoring
- Data Recording
- Flow Control
- Laptop Charting
- Emergency Shutoff
- Backlit Gauges
Southwest Oilfield Products Acidizing unit offers a complete solution for mixing, pumping and transportation.

Overview
Our standard Acid unit features a 750 gallon acid pumping system with three wet chemical and a single auger for dry chemical additives. The unit is mounted on a single drop tandem axle trailer and has numerous triplex pump horsepower options including:

- 600HP
- 1000HP
- 2250HP

Key Features
- Low center of gravity to ensure safety when fully loaded
- Computer controlled pump rate for precise control
- Real time pressure & flow data reporting
- Data recording and laptop charting
CEMENTING & PUMPING

Built for performance, Southwest Oilfield Products twin pumper is engineered for cement and other fluid pumping applications.

Overview
Southwest Oilfield Products standard twin pumping unit features our rugged and reliable 600 horsepower triplex pump which is mounted in a back-to-back configuration to ensure ample pumping power in even the most challenging oil and gas well cementing / fluid pumping projects. Additional pump horsepower options are also available.

To complement our unit’s robust pumping power, Southwest Oilfield Products utilizes the industry trusted, RCM™ mix system that is capable of satisfying a wide range of mixing rates. The system is designed electric over hydraulic for infinite control of the slurry delivery system. A Micro-Motion™ fluid densitometer is utilized for precise control of product delivery.

Key Features
- Wide range of mixing and pump rates
- Multi-functional control system for easy operation
- Heavy beam drop deck design for balanced weight distribution
Southwest Oilfield Products Wireline units feature flexible designs that can be easily modified for Slick or Wireline applications

Overview

Engineered for reliability, our Wireline units are designed to meet the challenges of even the most demanding oilfield environments. Drum Wireline capacity and other unit specifications are completely customizable to meet your particular requirements. Our complete portfolio of Wireline units are offered in a variety of configurations including:

• Skid mounted
• Trailer mounted
• Single & tandem axle truck units

Along with our standard Wireline units, Southwest Oilfield Products also offers our extreme duty Wireline units. These heavy-duty Wireline units are suitable for performing open or cased hole logging and perforating service work applications in extreme operation conditions including:

• Offshore
• Arctic
• Desert
Suitable for a variety of well-site applications, Southwest Oilfield Products has numerous Coil Tubing units and Injectors to fit your need.

Coil Tubing Units
Southwest Oilfield Products offers trailer mounted, chassis mounted and skid mounted units in 30K, 60K, 80K and 100K configurations. Our Coil Tubing units are built to suit a variety of well servicing applications including:

- Well completion
- Fluid placement
- Well intervention
- Nitrogen jetting
- Acid fracturing
- Milling and drilling

Injectors
Southwest Oilfield Products 100K coiled-tubing injector is designed for heavy-to-severe service operations. With a versatile operating range this robust injector is capable of intermittent vertical loads of 140,000 lbs. (63503 kg) or continuous loads at 100,000 lbs. (45,359 kg) during pulling operations or 50,000 lbs. (22,680 kg) while snubbing.

- Tubing range of 1 to 3-1/2-inches
- Variable chain speed 5-180 FPM
- Cross drive chain system
- 4 stage tubing traction system
- Adjustable 84in. guide arch
Southwest Oilfield Products Blenders and Hydration units provide years of dependable service for well-site service applications

Blenders
Southwest Oilfield Products line of well servicing equipment solutions would not be complete without our full line of blenders. Built-to-last construction and ease of transport are some of the key characteristics we have incorporated into our design. The large mixing tubs featured in all of our Southwest Oilfield Products blenders have a maximum capacity of 120bbls, enabling on-site, trouble-free mixing of fluids and proppants. Our user-friendly, mixing control system allows operators to easily produce a wide variety of fluid blends at varying densities.

Hydration
Southwest Oilfield Products hydration units are the perfect compliment to our well servicing equipment offering and provide the reliable, on-demand mixing solutions that well servicing projects require. All of our designs are engineered so that they can be easily integrated with other well servicing equipment. Based on your chemical additive specifications, Southwest Oilfield Products offers both custom and standard units which enables your fracturing operation to run as cost efficient as possible by minimizing the fluid required to complete the operation.

Southwest Oilfield Products Blenders and Hydration units are available in the following configurations:
- Skid-mounted
- Trailer-mounted
- Tandem axle truck mounted
Southwest Oilfield Products Snubbing Units provide a quick and easy solution for performing well maintenance operations under pressure.

**Overview**

Southwest Oilfield Products is proud to offer a complete line of Snubbing Equipment capable of handling loads from 150,000 to 460,000 lbs. Our snubbing equipment is engineered for performance and enables well maintenance operations to be performed under pressure without introducing “kill” fluids or other methods which could ultimately result in well damage. Our snubbing unit model specifications include:

<table>
<thead>
<tr>
<th></th>
<th>Model 150</th>
<th>Model 225</th>
<th>Model 340</th>
<th>Model 460</th>
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</thead>
<tbody>
<tr>
<td>Max. Pulling Capacity (Lbs.)</td>
<td>150,000</td>
<td>225,000</td>
<td>340,000</td>
<td>460,000</td>
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<tr>
<td>Max. Snubbing Capacity</td>
<td>66,000</td>
<td>120,000</td>
<td>188,000</td>
<td>220,000</td>
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<tr>
<td>Tubing Size Range (in.)</td>
<td>1–2 7/8</td>
<td>1–5 1/2</td>
<td>1–7 5/8</td>
<td>1–8 5/8</td>
</tr>
<tr>
<td>Rotary Torque ft./lbs</td>
<td>2800</td>
<td>5000</td>
<td>6600</td>
<td>6600</td>
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<tr>
<td>Stroke (Std.)</td>
<td>10’</td>
<td>10’</td>
<td>10’</td>
<td>12’</td>
</tr>
<tr>
<td>Max. Bore Unit (in.)</td>
<td>8”</td>
<td>11”</td>
<td>11”</td>
<td>11”</td>
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Our team of experts can restore your existing equipment to like new condition while our preventative maintenance program improves productivity.

**Unit Refurbishment**

The Southwest Oilfield Products staff of unit experts and engineers have the know-how to offer complete unit refurbishments for all of your well servicing equipment. From mechanical tasks such as engine & transmission overhauls to less complex projects like hose replacement and painting, our Ft Worth facility and staff is equipped to handle it all.

A thorough unit inspection report is included with all of our refurbishment proposals.

**Preventative Maintenance**

At Southwest Oilfield Products, we realize that downtime is costly and keeping your equipment in top operating condition is vital to your operation. Our preventative maintenance program is aimed at reducing unexpected equipment outages by identifying mechanical issues before they occur. Contact us today to learn how we can customize a preventative maintenance program to suit your specific needs.
**TRIPLEX PUMPS**

Suitable for a variety of fluid pumping applications, Southwest Oilfield Products Triplex pumps offer robust power in a compact design

**Overview**

Available in 600 or 2250 horsepower, Southwest Oilfield Products triplex pumps are suited for numerous applications from acidizing to fracturing. The unique design features an offset crankshaft and crosshead design which substantially reduces the load on both the crosshead and crosshead guides as well as the main roller bearings supporting the crankshaft. Fluid pumping applications include:

- Acidizing
- Cementing
- Fracturing
- General fluid pumping
- Snubbing

<table>
<thead>
<tr>
<th>SW-L600</th>
<th>Plunger Diameter (in.)</th>
<th>Gallons Per Revolution</th>
<th>Displacement at Pump Strokes Per Minute (90% Mechanical Efficiency)</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td><strong>50</strong></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>GPM</td>
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<tr>
<td>Rated brake horsepower:</td>
<td>600</td>
<td>3</td>
<td>0.551</td>
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<tr>
<td>Maximum rod load (lbs):</td>
<td>106,000</td>
<td>3.5</td>
<td>0.750</td>
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<tr>
<td>Stroke length (in.):</td>
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<td>4</td>
<td>0.979</td>
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<td>Gear ratio:</td>
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<td>1.239</td>
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<td>Weight (dry, lbs):</td>
<td>4,600</td>
<td>Input Power (BHP):</td>
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<tr>
<th>SW-L2250</th>
<th>Plunger Diameter (in.)</th>
<th>Gallons Per Revolution</th>
<th>Displacement at Pump Strokes Per Minute (90% Mechanical Efficiency)</th>
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<td></td>
<td><strong>100</strong></td>
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<tr>
<td></td>
<td></td>
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<td>Rated brake horsepower:</td>
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<td>Maximum rod load (lbs):</td>
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<td>2.040</td>
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<td>Stroke length (in.):</td>
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<td>5</td>
<td>2.468</td>
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<tr>
<td>Gear ratio:</td>
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<td>2.468</td>
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<tr>
<td>Weight (dry, lbs):</td>
<td>12,680</td>
<td>Input Power (BHP):</td>
<td>1,549</td>
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Southwest Oilfield Products rugged and reliable Quintuplex pumps offer high performance in critical service applications.

Overview

Southwest Oilfield Products quintuplex pumps can be utilized in a variety of applications and offer great pressure and flow ratings compared to competing brands. The versatile design has numerous value-added benefits including reduced weight and a smaller footprint which eases space constraints.

Similar to our triplex models, applications for our quintuplex pumps include:
- Acidizing
- Cementing
- Fracturing
- General fluid pumping
- Snubbing

### SW-L1000

<table>
<thead>
<tr>
<th>Plunger Diameter (in.)</th>
<th>Gallons Per Revolution</th>
<th>Displacement at Pump Strokes Per Minute (90% Mechanical Efficiency)</th>
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<td></td>
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<td>GPM</td>
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<tr>
<td>Rated brake horsepower:</td>
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</tr>
<tr>
<td>Maximum rod load (lbs):</td>
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<tr>
<td>Stroke length (in.):</td>
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<td>4</td>
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<tr>
<td>Gear ratio:</td>
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<td>Weight (dry, lbs):</td>
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### SW-L2500

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<th>Plunger Diameter (in.)</th>
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<tr>
<td></td>
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<td>GPM</td>
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<tr>
<td>Rated brake horsepower:</td>
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<tr>
<td>Maximum rod load (lbs):</td>
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<td>Stroke length (in.):</td>
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<td>5</td>
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<tr>
<td>Gear ratio:</td>
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<td>5.5</td>
</tr>
<tr>
<td>Weight (dry, lbs):</td>
<td>15,180</td>
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