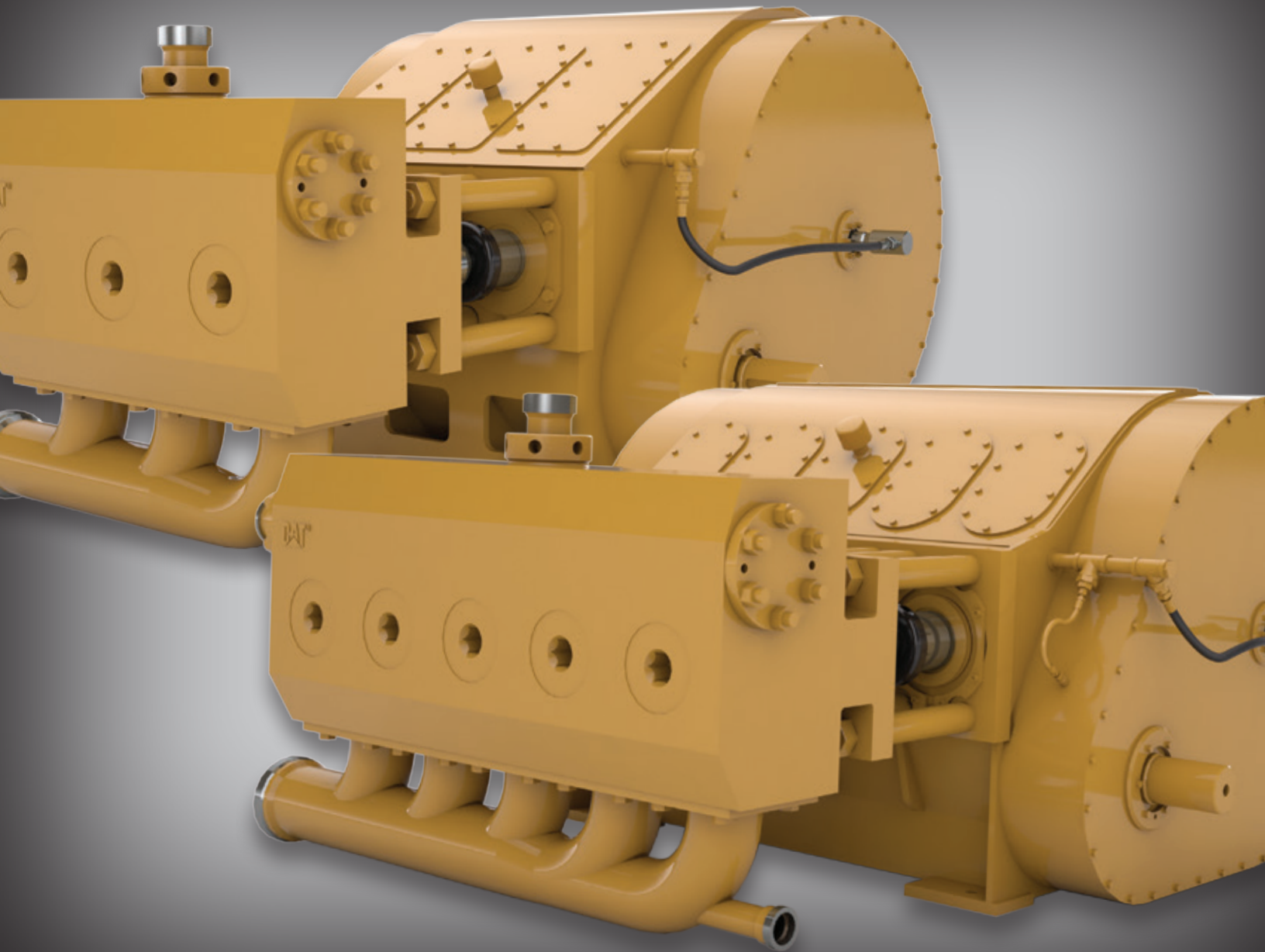


Cat[®] Well Service Pumps

For the Oil & Gas Industry



Well Constructed

SO YOU CAN PUT US TO WORK.

Standard Features

STAINLESS STEEL FLUID ENDS

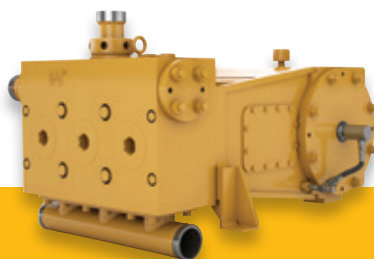
- All XD geometric benefits
- Improved corrosion resistance, particularly in recycled water applications
- Improved resistance to stress corrosion cracking
- Optimized autofrettage parameters specifically for stainless steel material
- Fully interchangeable with existing Caterpillar carbon steel product line
- Reduced total cost of ownership

FLUID ENDS

- Increased durability of fluid ends to decrease downtime
- Full line of 8" and 10" fluid ends for application flexibility
- Dimensionally compatible fluid ends with industry standard 8" and 10" stroke power ends
- Valve-over-valve design to simplify valve, seat, and plunger installation
- Polypak seals for more reliable sealing at suction cover and discharge flanges
- Components designed to maximize interchangeability across our fluid end line and industry standard fluid ends

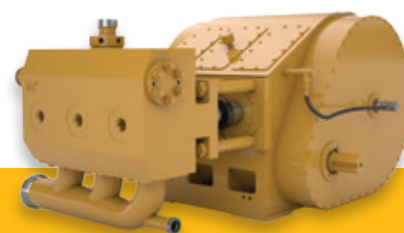
Well Service Pumps

YOU NEED THE RIGHT PUMP FOR THE JOB. OUR FULL LINE HAS YOU COVERED.



WS063

**Triplex
Well Service Pump**



WS223

**Triplex
Well Service Pump**

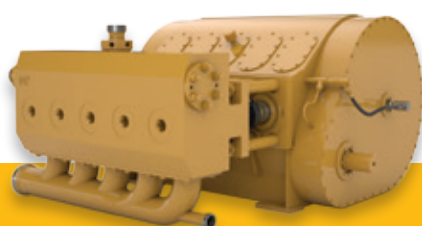
Maximum Input	600 bhp (447 bkW)	2250 bhp (1678 bkW)
Maximum rpm	450	330
Number of Plungers	3	3
Stroke Length	6 in (152.4 mm)	8 in (203.2 mm)
Plunger Load	100,000 lb (45 359 kg)	225,000 lb (102 058 kg)
Pump Weight	4,800 lb (2177 kg)	13,000 lb (5896.7 kg)
Gear Ratio	4.6:1	6.353:1

POWER ENDS

- Industry standard footprint – ready to integrate into existing well service trailer designs
- Reverse helical pinion and bull gear design for great reliability
- Fully welded structure with additional internal supports
- Two-piece stay rod design – pre-tensioned stay rod lowers cyclic loading and fatigue stress
- Nose plate-to-frame design includes an enhanced interlocking design, which increases the structural strength
- Forged or fabricated bull gears – no cast material
- One-piece forged crankshaft

CAT® VALVES AND SEATS

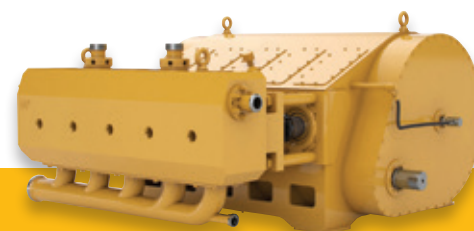
- One-piece valve with injected inserts
- Optimized geometry
 - Reduced impact forces
 - Longer valve and seat life
- Increased flow area
 - Reduces potential for cavitation
- Reduces cause for fluid end washouts
 - Fluid is directed toward discharge valve
- Sales and service through global dealer network
- Field proven, at least 2 times the life of competitor valves
- Fit nearly any well stimulation pump
- Seats can be used with multiple valve changes
- Reduced maintenance time and intervals



WS255
Quintuplex
Well Service Pump



WS273XD
Triplex
Well Stimulation Pump



WS305 XD
Quintuplex
Well Stimulation Pump

2500 bhp (1864 bkW)

330

5

8 in (203.2 mm)

192,325 lb (87 237 kg)

16,000 lb (7257 kg)

6.353:1

2700 bhp (2014 bkW)

275

3

10 in (254 mm)

275,000 lb (124 738 kg)

18,000 lb (8165 kg)

5.55:1

3000 bhp (2237 bkW)

275

5

10 in (254 mm)

250,000 lb (113 398 kg)

24,000 lb (10 886 kg)

5.55:1



Single-source Confidence

Cat® well service pumps are designed and manufactured to integrate across our product line and industry standards. Get exceptional product life and performance, supported by the global Cat dealer network. We're built to exceed your expectations.

To learn more, talk to your local Cat dealer or visit catoilandgasinfo.com.

BUILT FOR IT.™

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