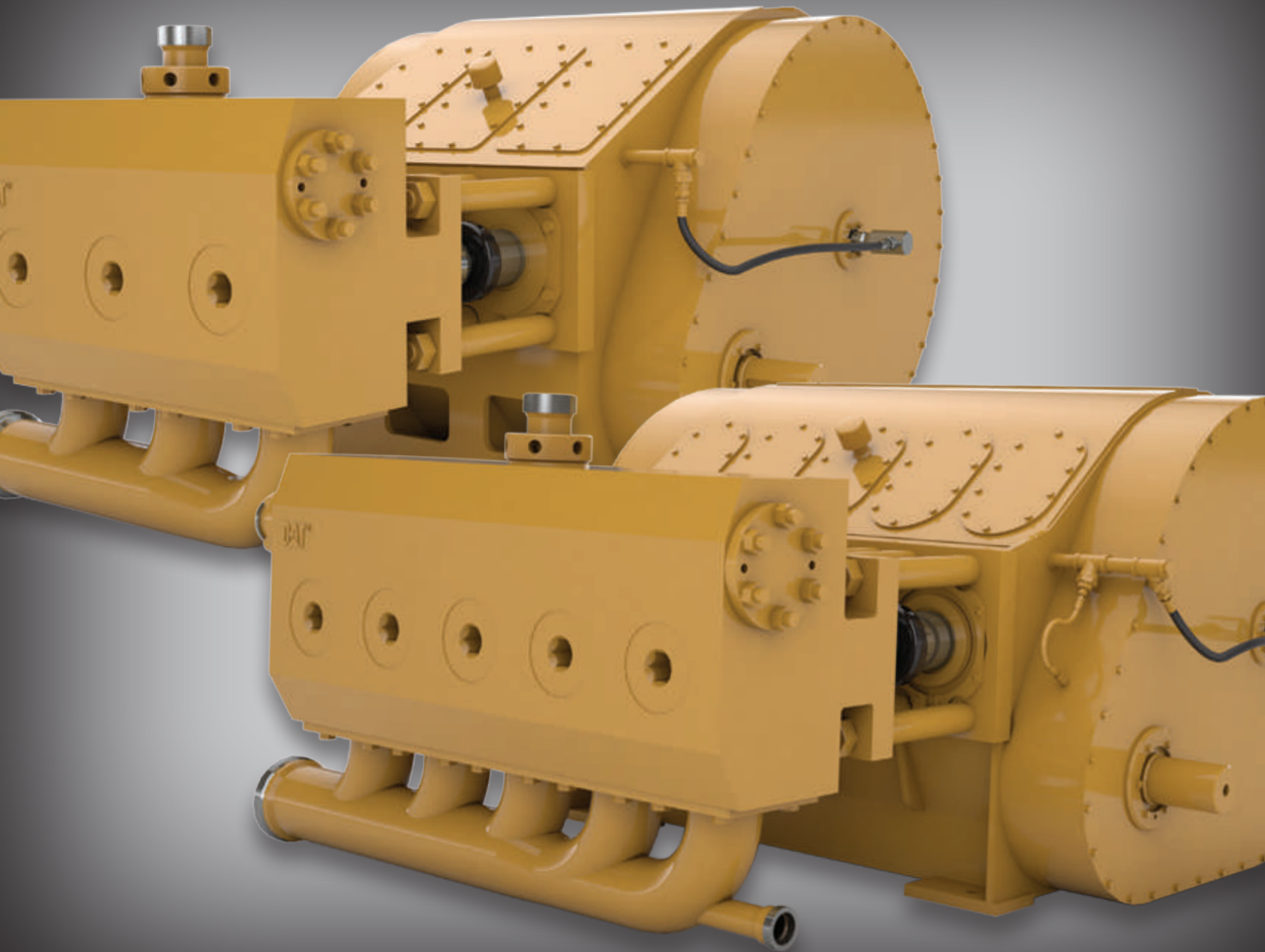


Cat[®] Well Service Pumps

For the Oil & Gas Industry



Well Constructed

SO YOU CAN PUT US TO WORK.

Standard Features

STAINLESS STEEL FLUID ENDS

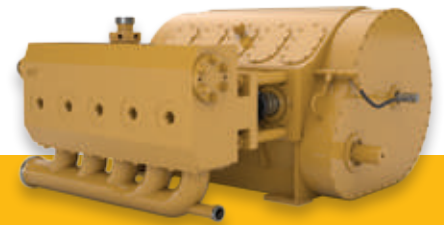
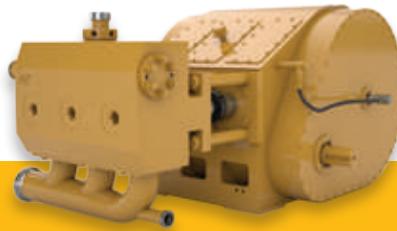
- All XD geometric benefits
- Improved corrosion resistance, particularly in recycled water applications
- Improved resistance to stress corrosion cracking
- Optimized autofrettage parameters specifically for stainless steel material
- Fully interchangeable with existing Caterpillar carbon steel product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



WS223

Triplex Well Service Pump

WS255

Quintuplex Well Service Pump

Maximum Input	2250 bhp (1678 bkW)	2500 bhp (1864 bkW)
Maximum rpm	330	330
Number of Plungers	3	5
Stroke Length	8 in (203.2 mm)	8 in (203.2 mm)
Plunger Load	225,000 lb (102 058 kg)	192,325 lb (87 237 kg)
Pump Weight	13,000 lb (5896.7 kg)	16,000 lb (7257 kg)
Gear Ratio	6.353:1	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



WS273XD
Triplex
Well Stimulation Pump

2700 bhp (2014 bkW)

275

3

10 in (254 mm)

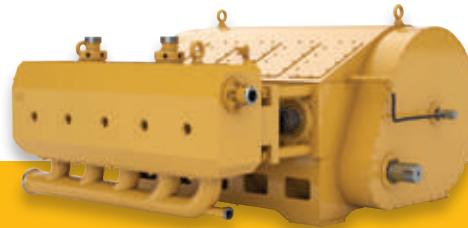
275,000 lb (124 738 kg)

18,000 lb (8165 kg)

5.55:1

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



WS305 XD
Quintuplex
Well Stimulation Pump

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 www.cat.com/oilandgas

BUILT FOR IT.™

Caterpillar Oil & Gas

AMERICAS

Caterpillar Inc.
Oil & Gas
10203 Sam Houston Park Drive
Houston, Texas 77064
Tel: (+1) 713-329-2207
Fax: (+1) 713-895-4280

RUSSIA

Caterpillar Eurasia
82 Sadovnicheskaya Str.
Moscow 115035
Tel: (+7-495) 213-3340
Fax: (+7-495) 213-3372

ASIA PACIFIC

Caterpillar Asia Pte., Ltd.
Oil & Gas
7 Tractor Road
Singapore 627968
Tel: (+65) 6828-7333
Fax: (+65) 6828-7414

CHINA

Caterpillar Oil & Gas China
Room 1601 Caterpillar Tower
No. 8 Wangjing Street
Beijing 100102, P.R. China
Tel: (+86-10) 5921-0521
Fax: (+86-10) 5921-0022

EUROPE, AFRICA, AND MIDDLE EAST

Caterpillar Commercial Northern Europe Ltd.
Oil & Gas
Building 329
Doncastle Road
Bracknell RG12 8PE
United Kingdom
Tel: 01344 782920
Fax: 01344 782930

Caterpillar Motoren GmbH & Co. KG
Oil & Gas
Falckensteiner Str. 2
D-24159 Kiel, Germany
Tel: (+49) 431 3995 3004
Fax: (+49) 431 3995 5004