

Quintuplex Well Stimulation Pump

WS255

- 2500 bhp (1864 bkW) Input Power

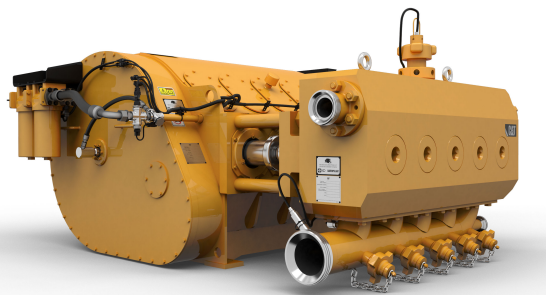


Image shown may not reflect actual pump configuration

Specifications

Maximum Input.	2500 bhp (1864 bkW)
Maximum rpm.	330
Number of Plungers.	5
Stroke Length.	8 in (203.2 mm)
Maximum Rod Load.	238,000 lb (107,960 kg)
Pump Weight.	17,000 lb (7,710 kg)
Gear Ratio.	6.353:1
Bore Centers.	10"

Standard Features

Fluid Ends

- Dimensionally compatible with legacy 8" stroke power ends
- Valve-over-valve design simplifies valve, seat, and plunger installation
- Full line of FIG 1502 and FIG 2002 discharge configurations
- Zoomie Suction manifold
- Grooved and grooveless valve stop designs available; grooveless design eliminates stress risers present with a grooved valve stop design
- Full line of plungers to meet customer needs
- Polypak seals for more reliable sealing at suction cover and discharge flanges
- Fluid end components designed to maximize interchangeability across our fluid end line and with industry standard fluid ends

Optional Attachments

- PEMS (Pump Electronic Monitoring System)
- Manifold options by Design to Order

Stainless Steel Fluid End Options

- 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
- Available Cat® Cube Bore premium geometry with 50% life increase

Power Ends

- Industry standard footprint
- Reverse helical pinion and bull gear design
- Two-piece stay rod design – pretensioned stay rod lowers cyclic loading and fatigue stress
- Nose plate of frame utilizes a interlocking dovetail design, strengthens frame stability at higher rod loads
- Forged bull gears and crankshaft
- Premium lube oil filtration system is standard

WS255 Quintuplex Well Stimulation Duty Performance Ratings

Plunger Diameter		Displacement per Revolution		Rate and Pressure at Pump rpm Well Stimulation and Intermittent Application											
				87		111		150		200		250		330	
in	mm	Gal/Rev.	L/Rev.	bpm	psi	bpm	psi	bpm	psi	bpm	psi	bpm	psi	bpm	psi
4.0	101.6	2.17	8.21	4.52	18984	5.74	15315	7.76	11830	10.33	8886	12.93	7102	17.05	5386
4.5	114.3	2.75	10.40	5.69	15000	7.26	12100	9.83	9338	13.10	7012	16.38	5605	21.62	4247
5.0	127.0	3.40	12.87	7.05	12150	8.98	9800	12.14	7562	16.19	5671	20.24	4537	26.71	3437
Input Power (bhp)				2400		2500		2500		2500		2500		2500	

Based on 90% ME and 100% VE – Intermittent Service Only.

Pumps with pressures in excess of 15 000 psi require special gauge and discharge flanges.

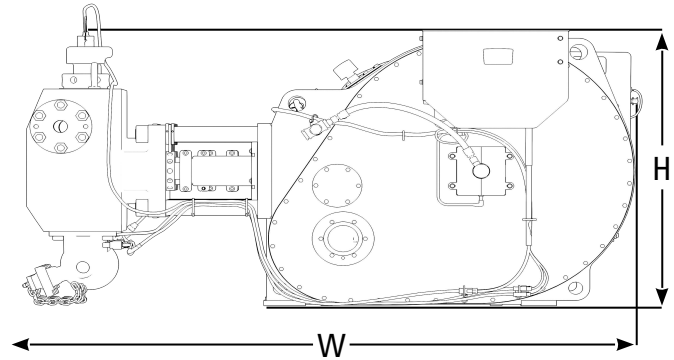
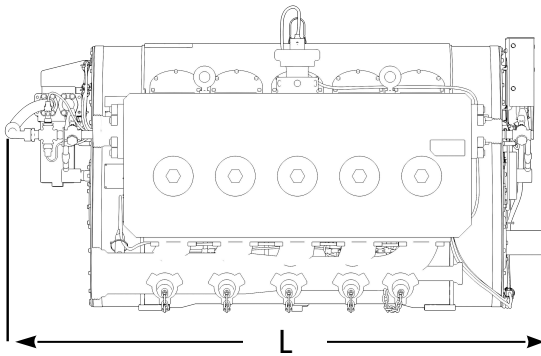


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Dimensions



Length	88.61 in (2250.8 mm)
Width	88.19 in (2240.1 mm)
Height	44.87 in (1139.8 mm)
Weight	17,000 lb (7710 kg)

Performance Data

