

Quintuplex Well Stimulation Pump

WS305 XD

- 3000 bhp (2237 bkW) Input Power

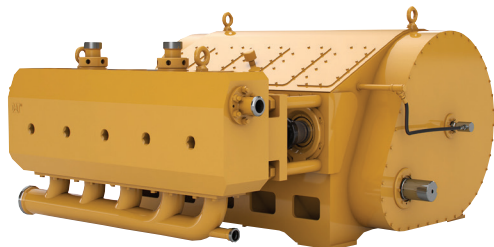


Image shown may not reflect actual pump configuration

Specifications

Maximum Input	3000 bhp (2237 bkW)
Maximum rpm	275
Number of Plungers	5
Stroke Length	10 in (254 mm)
Maximum Rod Load	250,000 lb (113 398 kg)
Pump Weight.....	24,000 lb (10 886 kg)
Gear Ratio	5.55:1

Standard Features

Fluid Ends

- Valve-over-valve design simplifies valve, seat, and plunger installation
- Full line of 1502 discharge flanges – male, female, and blank
- Zoomie or log-style suction manifold available
- Grooveless valve stop; grooveless design eliminates stress risers present with a grooved valve stop design
- Plungers with advanced sealing technology
- Premium plunger packing
- 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
- Optimized autofrettage process

Power Ends

- Reverse helical pinion and bull gear design – 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 bull gears – no cast material
- Forged crankshaft – one piece

WS305 XD Quintuplex Well Stimulation Duty Performance Ratings

Plunger Diameter		Displacement per Revolution		Displacement at Pump rpm Well Stimulation and Intermittent Application									
				75		115		150		200		275	
in	mm	Gal/Rev.	L/Rev.	gpm	psi	gpm	psi	gpm	psi	gpm	psi	gpm	psi
4	101.6	2.72	10.3	204	19900	312	16450	408	12615	543	9460	747	6875
4.5	114.3	3.44	13.0	258	15725	396	12985	516	9960	688	7450	946	5425
5	127.0	4.25	16.1	319	12730	489	10520	637	8065	850	6050	1168	4400
5.5	139.7	5.14	19.5	386	10525	591	8695	771	6665	1028	5000	1414	3635
Input Power (bhp)				2368		3000		3000		3000		3000	

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

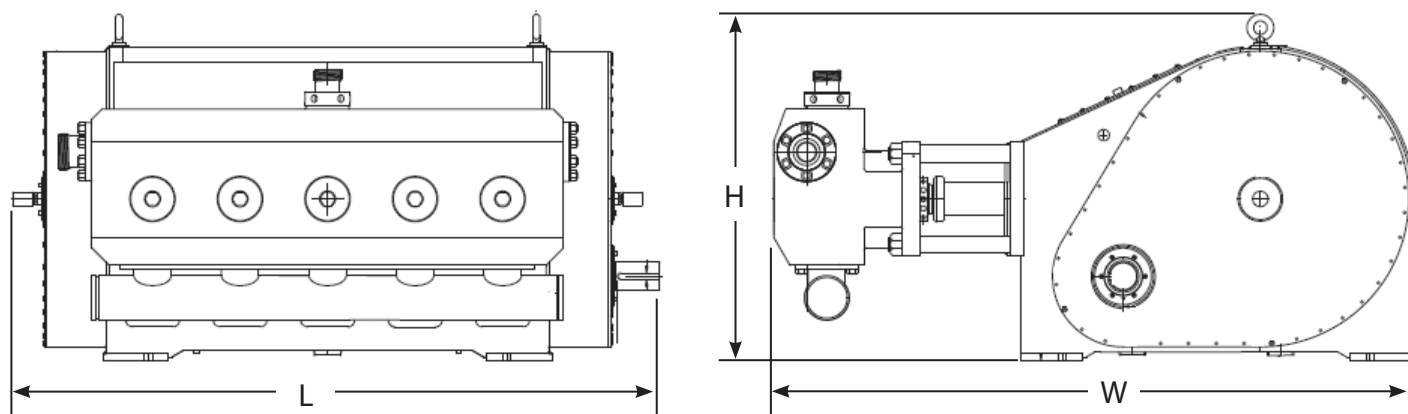
Pumps with pressures in excess of 15 000 psi require special gauge and discharge flanges.

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Dimensions



Length 97.1 in (2466.3 mm)
Width 95.6 in (2428.2 mm)
Height..... 52.8 in (1341.1 mm)
Weight 2 4,000 lb (10 886 kg)

Performance Data

