



Apollo Direct Drive Turbine Frac Pumper

State of art and field-proven technology with the best power density, Direct Drive Turbine Frac Pumper has been developed to overcome the challenges of ESG and cost reduction requirement under this soft and competitive market. The Direct Drive Turbine Frac Pumper is designed with Jereff's patented 5,000 HP Continuous Pump and 5,336 SHP turbine, which is capable of running on 100% natural gas from CNG/LNG/pipeline gas/wellhead gas.

- Economical: Capable of running on 100% natural gas which greatly reduces fuel cost.
- Eco-friendly: Reduce emissions and meets strict noise requirements.
- Efficient: Reduce the quantity of pumps, overall site footprint, treating iron connections and field personnel by approximately 40%~45% with increased single-unit output.

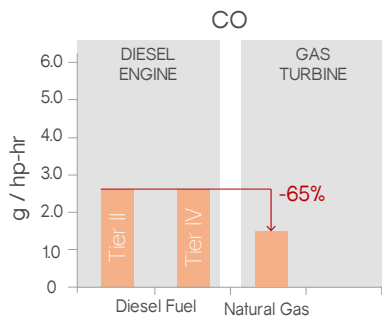
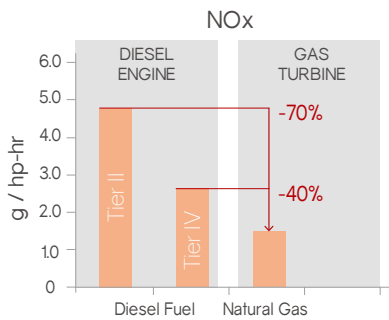
Technical Parameters

- Power: Turbine engine, rated at 5,336 SHP under ISO condition
- Plunger Pump: JR5000QPE Continuous Plunger Pump
- Max. Pump Flowrate: 15 BPM (5" Plunger)
- Max. Working Pressure: 13,751 psi (5" Plunger)
- Overall Dimensions: 60'5" × 9'2" × 13'8"



Emission Levels Below EPA Tier IV Limits

- No Methane Slip



Saving 90% ↓ Fuel cost-50Khp fleet for 10 years
Wellhead Gas=\$1.45/mcf

Saving 30% ↓ Fuel cost-50Khp fleet for 10 years
CNG=\$11.25/mcf

Fuel Cost: Compared with fuel cost of conventional frac pump

JR5000QPE Plunger Pump

- Rated Brake Horsepower: 5,000 hp
- Max. Rod Load: 270,000 lbf
- Stroke Length: 10 in
- Overall Dimensions: 98.4 in × 111.4 in × 44.1 in
- Weight: 30,000 lb (13,600 kg)

Plunger Size	Disp.	Displacement at Pump Strokes per Minute											
		40		60		80		100		120		150	
in (mm)	gal/rev (L/rev)	BPM (L/min)	psi (MPa)	BPM (L/min)	psi (MPa)	BPM (L/min)	psi (MPa)	BPM (L/min)	psi (MPa)	BPM (L/min)	psi (MPa)	BPM (L/min)	psi (MPa)
4	2.72	2.60	20,000	3.88	20,000	5.19	20,000	6.48	20,000	7.76	20,000	9.71	18,904
101.60	10.30	411.90	137.90	617.80	137.90	823.70	137.90	1,029.60	137.90	1,235.60	137.90	1,544.40	13.40
4-1/2	3.44	3.29	16,976	4.93	16,976	6.55	16,976	8.19	16,976	9.83	16,976	12.29	14,937
114.30	13.03	521.30	117.10	781.90	117.10	1,042.50	117.10	1,303.10	117.10	1,563.80	117.10	1,954.70	103.00
5	4.25	4.05	13,751	6.07	13,751	8.10	13,751	10.12	13,751	12.14	13,751	15.19	12,099
127.00	16.09	643.50	94.80	965.30	94.80	1,287.00	94.80	1,608.80	94.80	1,930.60	94.80	2,413.20	83.40
Brake Power (HP/kW)		1,515 / 1,130		2,273 / 1,695		3,031 / 2,260		3,788 / 2,825		4,546 / 3,390		5,000/3,729	
Input Speed (RPM)		380		571		761		951		1,141		1,427	



JEREH
PRODUCT PROFILE
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