HuBei Petrokh Petroleum Machinery Co., Ltd.

Oil & Gas Petroleum Machinery — Fracturing · Cementing · Acidizing · Workover

Web: https://www.petrokh.net | Email: chinapetroleummachinery@hotmail.com | Jingzhou, Hubei, China

2800HP Large-Power Quintuplex Plunger Pump

Horizontal Reciprocating Positive-Displacement Quintuplex Pump

The 2800HP large-power quintuplex plunger pump is the highest-rated member of the Petrokh pump family, with 2080 kW rated brake horsepower and an 8-inch stroke. Plunger diameters from 3-3/4" to 5" deliver a wide pressure / displacement envelope for high-rate fracturing and stimulation duties in large fracturing fleets.

Technical Specifications

Pump Type	2800 quintuplex, horizontal single-acting
Rated BHP / Max. Input Power	2080 kW (2800 HP) / 2088 kW
Max. Load of Conrod	1000 kN
Stroke Length	203.2 mm (8 in)
Max. Specific Water Circle	330 rpm
Gear Ratio	6.353 : 1
Plunger Diameter Range	3-3/4" – 5"
Max. Discharge Pressure	137.9 MPa (3-3/4" plunger)
Displacement Range	723 – 4247 L/min (plunger & speed dependent)
Overall Dimension (L×W×H)	2296 × 2310 × 1198 mm
Weight	8900 kg

Plunger	Disp. 115 rpm (L/min)	Press. 115 rpm (MPa)	Disp. 330 rpm (L/min)	Press. 330 rpm (MPa)
3-3/4"	723	137.9	2385	46.8
4"	821	123.4	2710	41.1
4-1/2"	1041	97.5	3437	32.5
5"	1287	79	4247	26.3

Typical Applications

- High-rate hydraulic fracturing in large fleets
- Acidizing and matrix stimulation
- Well killing and cementing support

Certification & Testing: API · HSE · ISO 9001:2008 Certified Manufacturer | Established in 2006. This unit is designed and built for oilfield service duty; full factory test reports and configuration data are available on request.