

UNILIFT Vertical Long Stroke Pumping Unit

The UNILIFT unit produced by Forland Group is a long stroke pumping unit with adjustable stroke length and SPM. With proven technology and innovative design, the unit offers higher performance efficiency, greater output and investment return. UNILIFT is designed to handle all types of well conditions especially deep wells, high fluid-volume wells, deviated, horizontal, gaseous wells, heavy and tight oil wells. It is a better alternative to electric submersible pumps or progressing cavity pumps.

Features, Advantages and Customer Value

- Stepless stroke length adjustment from 39 in to 394 in and flexibility of running in different stroke length region. Fewer cycles and reversals, higher system efficiency and reliability.
- Stepless SPM adjustment. Independent upward and downward speed adjustment in one stroke improves pump volumetric efficiency and helps eliminate gas-lock problems.
- Broad range of polish-rod load from 3 tons to 30 tons and large production capability up to 7000 bpd meets different production goals.
- Fewer SPM and soft direction reversing improve life span of pumping unit, rod string and downhole pump.
- Linear counter balance and low system disturbance make dynamometer card very close to a theoretically perfect card.
- Easy installation, easy counterweight adjustment and easy well service, no heavy equipment needed.
- Easy repair of almost all major components on site.
- Intelligent control panel offers easy remote control, easy stroke length, SPM and running parameters adjustment.
- Smart dual-pulley traveling blocks markedly reduce required torque demand and allow the use of a smaller motor and gear reducer.
- Good selection of motor reduces energy consumption typically range from 30-50%.
- The UNILIFT unit has been long time proven in the field with high reliability and reasonable cost.



Forland Group, Inc.

16000 Barkers Point Lane, Suite 145

Houston, TX 77079

[Tel:832-850-7680](tel:832-850-7680)

www.forlandus.com

Specifications

Model Parameter	180-196	225-196	270-240	315-288	360-306	450-315	500-366
Max. Polished Rod Load (lbf/kN)	18,000 80	22,500 100	27,000 120	31,500 140	36,000 160	45,000 200	50,000 220
Rated Reducer Torque (in-lbf/kN-m)	89,600 10.1	138,800 15.7	166,600 18.8	218,200 24.7	249,400 28.2	363,600 41.1	404,000 45.7
Rated Motor Power (kW)	18.5	22	30	37	55	75	75
Max. Stroke (in/m)	196 5	196 5	240 6	288 7.3	306 7.8	315 8	366 9.3
Min. Stroke Length (in/m)	≥40 ≥1						
Max. Stroke Speed (spm)	5	5	5	4	4	4	3.5
Min. Stroke Speed (spm)	≥0.5						
Counterbalance Box Weight (lbs/kg)	4,850 2,200	7,050 3,200	8,150 3,700	8,380 3,800	9,260 4,200	9,920 4,500	9,920 4,500
Max. Auxiliary counterweight (lbs/kg)	7,720 3,500	11,020 5,000	14,330 6,500	17,640 8,000	22,040 10,000	30,860 14,000	31,960 14,500
Unit Weight (lbs/kg)	18,740 8,500	20,280 9,200	30,860 14,000	40,780 18,500	45,860 20,800	49,600 22,500	54,010 24,500
Unit Dimensions, L x W x H (ft/m)	7.5*6*33 2.3*1.8*10.0	7.5*6*34.5 2.3*1.8*10.5	9*6.6*37.7 2.75*2.0*11.5	13.5*7.2*41.3 4.1*2.2*12.6	13.5*7.2*44.6 4.1*2.2*13.6	14.8*7.9*46 4.50*2.4*14.0	14.8*8.5*50.9 4.50*2.60*15.5
Working Temperature (°F/°C)	-40°F ~ 160°F -40°C ~ 70°C						

Applications

- High fluid-volume, high load wells
- Tight oil wells, Heavy oil wells
- Directional drilled, horizontal wells
- Wells with complex conditions
- Energy saving required

