

## Key Features:

### Ultra Long Stroke (Up to 336")

- Reduced repetitive rod stress
- Less Rod & Tubing Wear
- Rod Pump Deviated Wells
- Linear rod velocity optimizes production & equipment life
- Greater down hole pump efficiency

### Low Profile Surface Equipment

- Subsurface Cylinders allow for minimal wellhead footprint
- High Density Drill sites
- Below Grade Installations

### Remote Control/Optimization

- Easily set Strokes Per Minute (SPM) remotely via software
- Extensive Web-Based Data Analysis & Monitoring (no software to install)
- Exception Based Alerts via email or Text messages (SMS)

### Low Environmental Impact

- No stuffing box – Completely eliminate external crude oil leaks
- Low Visibility, below-grade installation

### Other Features

- Proven Technology
- Semi-Portable

## SALES INFORMATION

We offer a wide range of Power Unit and Hydraulic Cylinder configurations.

### Power Units:

- 5HP – 150HP Electrically Driven
- Explosion Proof and Standard Models
- Single and Dual Well Operation
- Stackable Option for Limited Space

### Hydraulic Cylinders:

- Stroke Lengths – 120" to 336"
- Above Ground and Subsurface

### General Specs:

- Lifting capacities up to 42,390 PPRL\*
- Well Depths up to 12,000ft\*
- Production rates depend on well design

\* Upper Limit – Actual limits depend on well conditions. Please consult a sales rep for specific application limits.

### Long-Term Rental Contracts Available

Note: Above ground cylinders use standard wellheads. Subsurface cylinders may require additional wellhead modifications.

For sales inquiries, please contact us:



<http://hrpi.com>

**Hydraulic Rod Pumps, Intl.**

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## Hydraulic Rod Pumps

*Leading The Way...*

*In Rod Pump Technology*



**Artificial Lift**

**Long Stroke Rod Pump  
+  
Low Wellhead Profile**

**General Information**

<http://hrpi.com>

## HYDRAULIC ROD PUMPS – OVERVIEW

Hydraulic rod pumps provide an alternative to traditional beam units, ESP's, PCP's, Gas Lift, etc. combining the reliability and durability of a long stroke rod pump with a minimal wellhead footprint. Hydraulic rod pumps are ideal for crowded wellheads, troublesome wells, and deep or deviated wells, in addition to wells where a traditional rod pumps are considered.



### LOW PROFILE



Our low profile wellhead design brings rod pump technology into areas where traditional rod pumps were previously impractical. Residential, urban, offshore, agricultural, high-density drill sites and sensitive environmental habitats are just some of the unique applications for low profile HRP equipment.

### ULTRA LONG-STROKE

HRP long stroke cylinders increase downhole pump efficiency by traveling at near linear speed and by reducing pump cycling (more time lifting, less time spent in transition). Equipment life is increased as the repetitive stresses are decreased (compared to shorter stroke lengths at the same production rate).

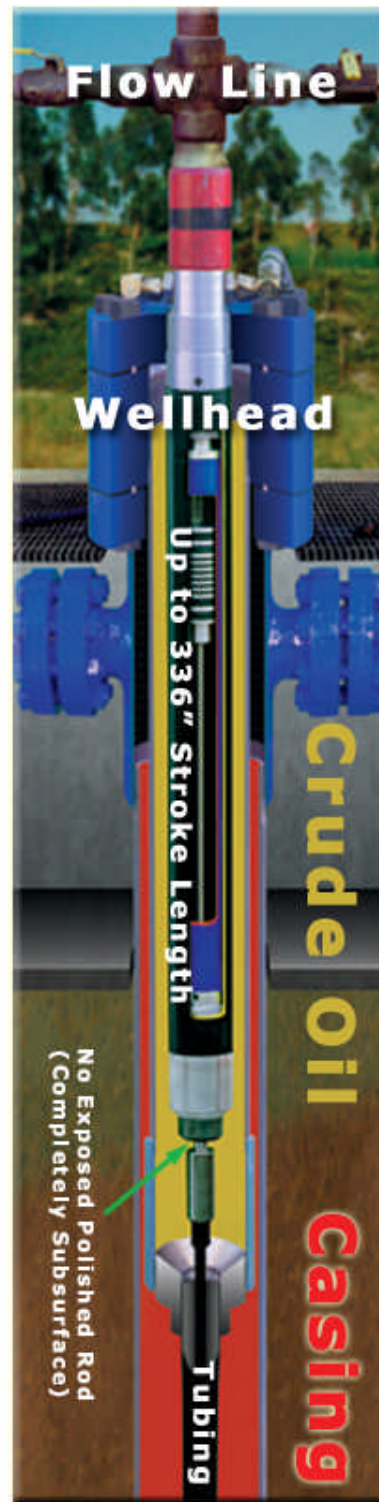
Bore x Stroke	Max Lift
2.5" x 240"	12,363 lbs
3.0" x 240"	18,840 lbs
3.5" x 240"	25,169 lbs
3.5" x 288"	25,169 lbs
3.5" x 336"	25,169 lbs
4.0" x 240"	34,000 lbs
4.0" x 288"	34,000 lbs
4.0" x 336"	34,000 lbs
4.5" x 240"	42,390 lbs
4.5" x 288"	42,390 lbs
4.5" x 336"	42,390 lbs

### CROWDED WELLHEADS



Hydraulic Rod Pumps are ideal for high-density well cellars. There are 46 rod pumped wells in this high-density cellar; well spacing is approximately 5 feet.

**Subsurface Hydraulic Cylinders** fit entirely inside the casing, providing the minimal wellhead footprint. The polished rod and cylinder are completely immersed in oil so there is no stuffing box to leak. (Hydraulic Cylinders are also available in Above Ground Models – also no stuffing box)



## HYDRAULIC POWER UNIT

Electrically driven power units are capable of single or **dual well operation**, and are available in a wide range of pump & motor combinations.

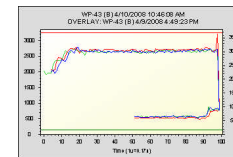


Our unique and environmentally conscious tank design places many of the hydraulic controls inside of the tank, eliminating most external hydraulic leaks.

### ADVANCED DATA MONITORING

Well operation is monitored via web browser from anywhere (see <http://pumpreports.com>). Strokes per minute (SPM) and other system parameters can be easily adjusted remotely for optimal well performance.

Advanced well analysis correlates data such as fluid level, production tests, well bore deviation, in addition to the data gathered automatically from the power unit.



Our advanced web interface allows dynamometer graphs to be overlaid dynamically in the web browser. Notice the time based dynamometer graph resembles a downhole pump dyno card. In some case, our ability to allow rods to fall faster can be utilized to achieve a greater overall SPM than traditional rod pumps.

### SEMI-PORTABLE SURFACE EQUIPMENT

Trailer mounted power units and above ground cylinders are available for rapid deployment or temporary testing. Just supply power (480v) and the well can be operational in just a few hours, including cylinder installation (stinger or rig required).



For More information, please see our website <http://hrpi.com>