

## KUDU HPU hydraulic pumping unit

Maximizes production efficiency

 Enhances system efficiency

### Applications

- Heavy, medium, and light oil wells
- Deep horizontal wells
- Shallow vertical wells
- Thermal wells

### How it improves wells

The KUDU HPU hydraulic pumping unit uses long strokes to maximize production efficiency and minimize downtime and workovers.

### How it works

With lengths of up to 336 in [8.53 m], the long strokes of the HPU reduce cyclic stress, minimize rod stretch impact, improve gas compression ratios, and enhance overall system efficiency. The variety of cylinder diameters and lengths provides design flexibility to suit any production requirements.

The fully enclosed cylinders prevent leaks, reducing downtime related to environmental exposure, equipment maintenance, and repair. This design further protects against spillage with a fully contained KUDU power unit enclosure.

The KUDU power unit can operate two cylinders at the same time. This option reduces capital costs as compared with purchasing two complete systems.

### Level 1

The level 1 HPU has the capacity to run two wells with one power unit and gives operators the flexibility of many different cylinder diameters and lengths. Changing the speed is quick and simple. The system is designed around specific production requirements, and in most instances, the level 1 unit can be retrofitted to an existing power unit.

### Level 2

The level 2 unit offers all the functionalities of the level 1 unit, but it also gives operators the ability to monitor and change system parameters either on site or remotely. The Level 2 unit generates a surface dynamometer card that can be used to analyze the well. It also provides a historical sampling of pertinent data for the entire system, including all alarm history, speed changes, and set points.

### Additional information

Installation of the HPU unit is quick and easy, taking hours instead of days, and requiring no special site preparation. All system-setting adjustments are viewable and can be changed either on site or remotely. No stuffing box is required.

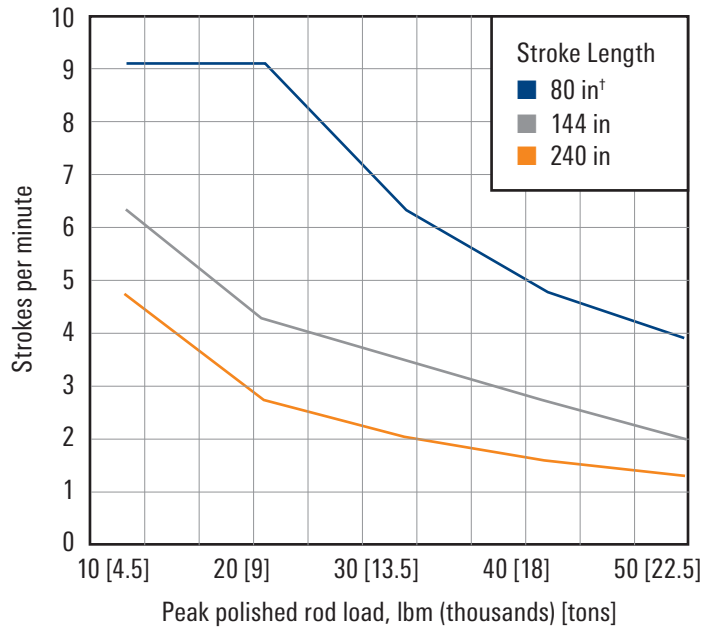


*KUDU HPU and power unit installation.*

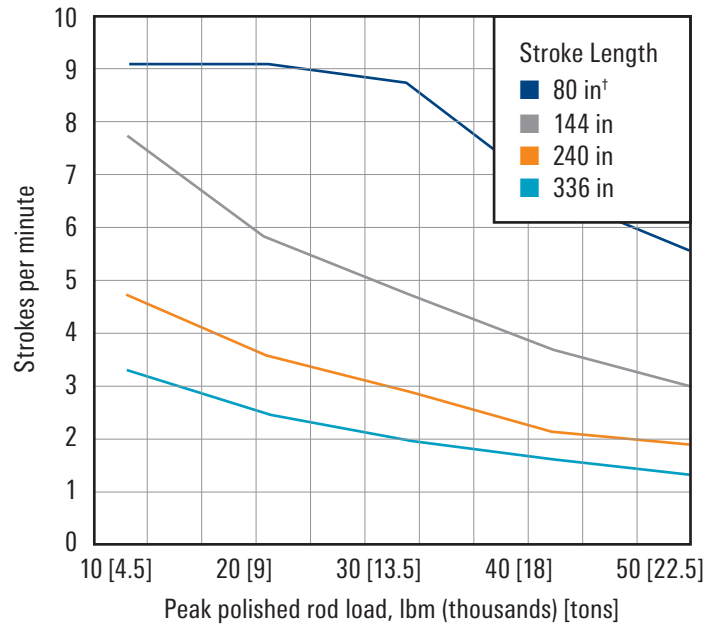
HPU Models		
Peak Polished Rod Load, lbm (thousands) [tons]	Cylinder Diameter, in [mm]	Stroke Length, in [mm]
30 [13.5]	3.5 [88.9]	80 [2,032]
30 [13.5]	3.5 [88.9]	144 [3,658]
30 [13.5]	3.5 [88.9]	240 [6,096]
30 [13.5]	3.5 [88.9]	336 [8,534]
40 [18]	4.0 [101.6]	80 [2,032]
40 [18]	4.0 [101.6]	144 [3,658]
40 [18]	4.0 [101.6]	240 [6,096]
40 [18]	4.0 [101.6]	336 [8,534]
50 [22.5]	4.5 [114.3]	80 [2,032]
50 [22.5]	4.5 [114.3]	144 [3,658]
50 [22.5]	4.5 [114.3]	240 [6,096]
50 [22.5]	4.5 [114.3]	336 [8,534]

# KUDU HPU hydraulic pumping unit

### 50-hp HPU Capabilities

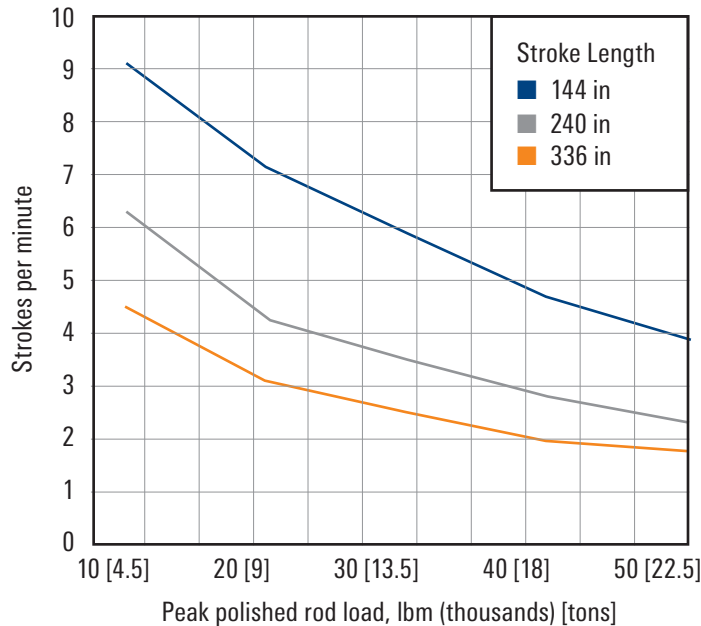


### 75-hp HPU Capabilities

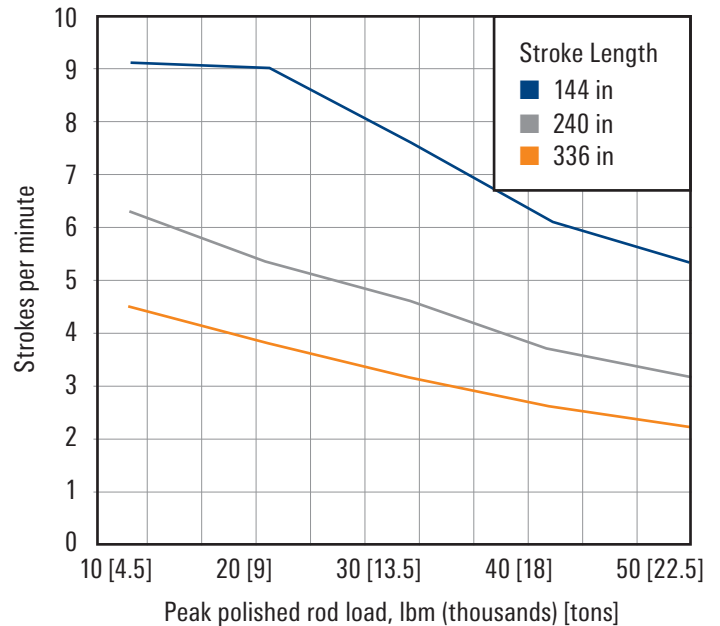


*This model is capable of higher strokes per minute (SPM), however, 10 strokes per minute is the highest recommended speed for all HPUs.*

### 100-hp HPU Capabilities



### 150-hp HPU Capabilities



*KUDU HPU capability graphs based on 100% efficiency.*

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