

Improve Stripper Well Performance  
Through Micro-Pumping

*The Rhino MiniJack™ recovers oil economically  
from stripper wells without overpumping*

## RHINO MINI JACK™ ELECTRIC PISTON PUMP

**Model 500**



**Unique,  
Electric  
Top-Head  
Drive Motor  
and Actuator**



**Customizable  
Downhole Pump**

High-strength, low-friction traveling valve and stainless steel pump barrel with standing valve, plus stainless steel check ball and seat provide for long pumping life

### Description

The Rhino MiniJack™ Electric Piston Pump Model 500 is powered by electricity. The control motor is located at surface grade for easy installation and maintenance. Power to the pump is direct from grade through the sucker rod assembly. The pump recovers oil from a standard diameter well casing, to depths of 750 feet with a 1-hp motor and 3/8-inch rod. The fluid inlet is located at the bottom of the pump barrel and removes product to 0 submergence depth. The pump can be made explosion proof, meeting Class 2, Div. 1 requirements.

<b>Flow Range</b>
0-15 bbl/day
<b>Operational Depth</b>
750 Ft. with 1-hp motor & 3/8" rod
<b>Standard Oil Well Casing Size</b>
2 7/8" oil well tubing

### Performance and Technical Data

#### Performance

Operational Depth	750'
Flow Range at 30 Hz, 3/8" rod; 10" limit switch separation	0-15 bbl/day
Motor	1 hp
Power Supply	230 Volt Single Phase or 230 or 460 Volt Three Phase
Maximum Lift	750 feet of water; variable speed (stroke) control adjusts to well conditions

#### Technical

Stroke Length	12.6"
Maximum External Diameter	2.9"
Total Cylinder Length	30"
Standard oil well tubing	2 7/8"
Connection to Sucker Rod	7/16" - 20
Recommended Internal Diameter of Well Bore	4" or greater diameter
Standard Oil Well Discharge Head	
Driver Weight	65 lbs.
Driver Rod and Weight	3/8" Rod, 12 lbs./100'
Standing Valve Assembly Weight	10 lbs.

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**Materials of Construction:**

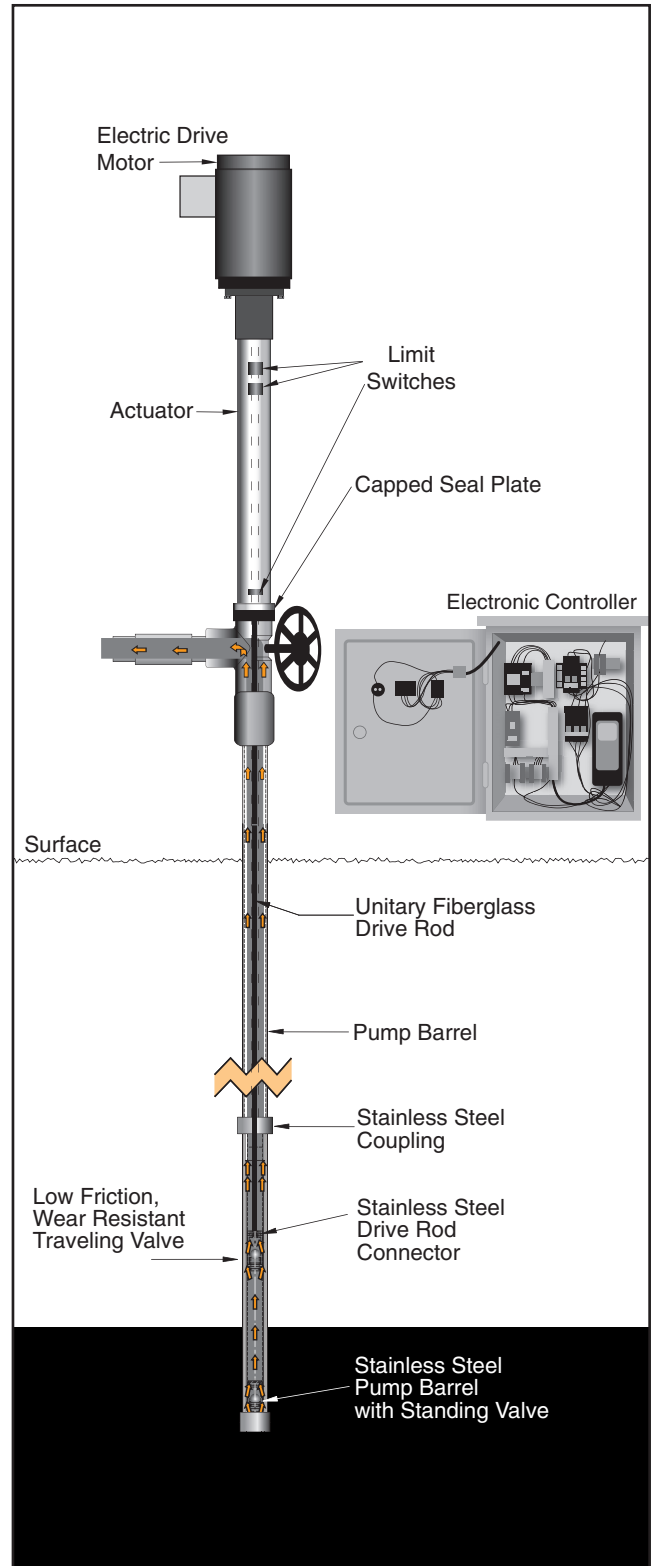
(Materials of construction can be modified to meet specific applications)

**Above Ground**

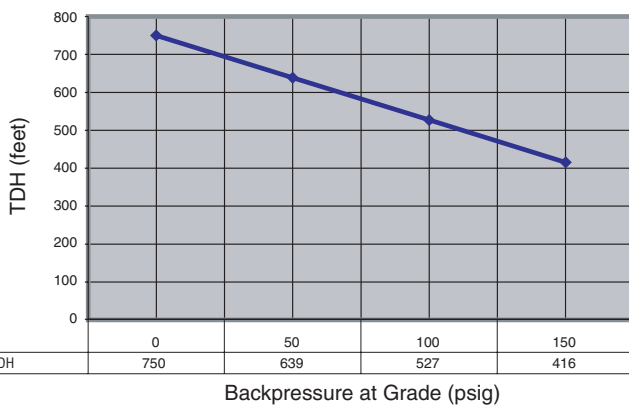
Drive Motor	Stainless Steel/ Aluminum
Stuffing Box	Delrin®/Brass
Seal Plate Seals	Nitrile/Viton
Landing Plate	Stainless Steel 2" NPT Male Thread
Standard Oil Well Head	

**Downhole**

Drive Rod	Fiberglass 3/8"
Drive Rod Connector	Stainless Steel
Traveling Valve Seal	Nitrile/Viton
Traveling Valve Check Ball	Stainless Steel
Traveling Valve	Brass
Traveling Valve Cylinder	Stainless Steel
Standing Valve Check Ball	Stainless Steel
Standing Valve	Stainless Steel Seat and Check Valve



**Rhino MiniJack 500 TDH Vs. Backpressure**



**Dimensions (in inches)**

Driver Height	48"
Driver Diameter	10"
Standing Valve Length	60"

**Available Options**

- ✓ Level Control Systems
- ✓ Metered Flow Control
- ✓ Flow Measurement
- ✓ Variable Frequency Drive
- ✓ SCADA Capability