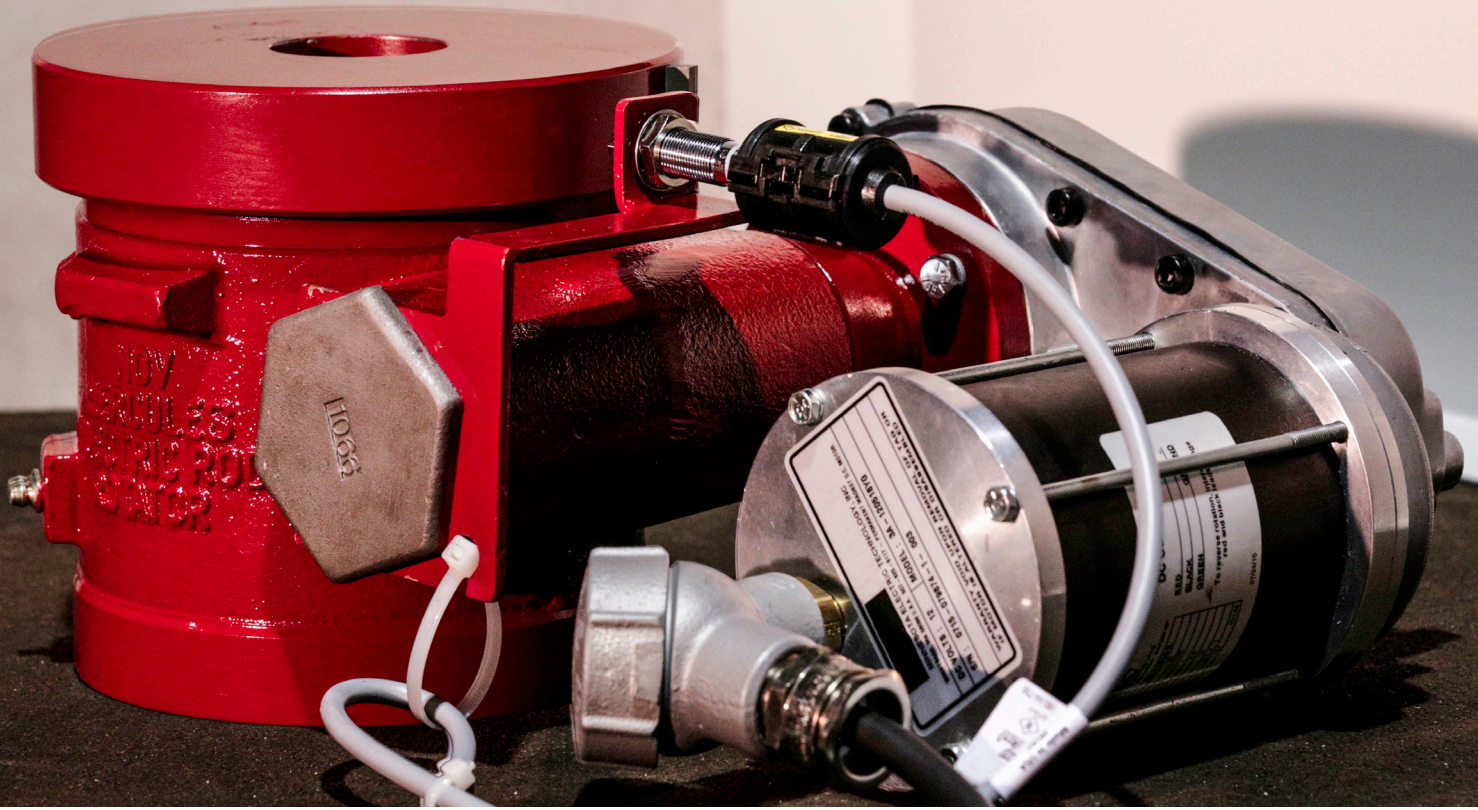


Hercules™

Electric Rod Rotator (ERR)



An intelligent, versatile and reliable rod string wear solution for all rod pumping units.

Artificial lift rod pumping applications have many problems with premature wear due to wellbore deviations. Rod string rotation used in conjunction with rod guides not only removes paraffin from inside the production tubing but, distributes wear evenly for the rods and rod couplings. This process extends periods between workovers and minimizes downtime.

Our new Hercules ERR is an evolution from traditional mechanical rod rotators. The ERR is actuated using an electric motor coupled to a control box. By using an electric motor you remove the headaches of setting up a traditional mechanical arm and cable setup. The elimination of the mechanically actuated arm and cable in our current designs allows operators to install a much more reliable system. Our newly integrated rotation sensor coupled with the control box monitors performance and alerts failures.

Traditionally, rod rotators are designed to operate with traditional pump jacks in mind. With the market introducing many modern unconventional rod pumping systems, installing traditional rod rotators can be very difficult and sometimes impossible. Our ERR can be used on NOV hydraulic rod pumping systems, as well as many other unconventional systems.

Features and Benefits

- Ground level and remote rotation monitoring
- Eliminates cable used to actuate the gear which rotates the rod string
- Uses low voltage motor with a high gear ratio to rotate rod string
- Provides greater control over rotations per day
- Reduces rod stress related to torsion
- Class 1 /Division 1 Rated 12 Volt DC Motor
- Reporting system capabilities
- Available cold weather configuration

| Specifications | ERR |
|---------------------------------------|--------------------|
| Max Output Torque (Ft/Lbs) | 330 |
| Max Recommended Load (Lbs) | 40,000 |
| Required Opening Between Bridle Lines | 7" |
| Polished Rod Sizes | 1-1/8" thru 1-3/4" |
| Shipping Weight (Lbs) | 52 |
| Height | 6-1/2" |
| Rotation Type | Helical Gear |
| Body Material | Ductile Iron |
| Actuator Type | Motor |