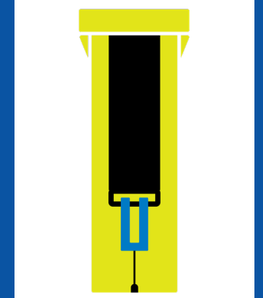

XL LONG STROKE PUMPING UNITS

Liberty Lift Solutions' XL Long Stroke Pumping Units are trusted across the industry for their robust design, extended service life, and energy-efficient operation. Each system is engineered for increased safety, maximum reliability and minimal maintenance.

BENEFITS

- Provides high volume lifting capabilities in deep and highly deviated wells.
- More complete pump fillage with each stroke
- No minimum operating speed
- Low dynamic loading for minimal rod wear and reduced workovers
- Constant velocity and fewer cycles for extended life

STANDARD FEATURES

- Wireless load cell
- High efficiency and dependable electric motor
- Wire mesh personnel safety guards
- Efficient self-contained hydraulic rollback system
- Unit Sentry operational safety monitor
- Vibration detection
- Helical involute gear design
- Emergency braking system
- Three sets of wind guard panels
- Wind guard wheels
- Upper proximity sensor
- Three-year warranty

ADDITIONAL FEATURES

TOP SPROCKET

- Supported by high-capacity, double-row tapered roller bearings
- Adjustable position compensation for chain wear
- Ready accessibility from mid-tower platform
- Personnel safety tie-offs and caged ladders
- Pressurized metering lubrication system controlled by Unit Sentry

COUNTERWEIGHT BOX

- Guided 12 roller contact points for smooth, controlled operation
- Transversing carriage for stroke transition
- Partitioned for adjustment to offset rod string weight
- Personnel platform for easy unit access

GEAR REDUCER

- Double reduction helical design
- Manufactured to API 11E specifications
- Ductile iron gears for enhanced durability
- Quenched and tempered alloy steel bearings for long life
- Removable safety covers on braking system and reducer sheave

TOP DRUM

- Supported by two self-aligning double-row spherical roller bearings
- Heavy-duty coated woven load belt carcass
- Covered drum for protection from elements and contaminants

UNIT SENTRY CAPABILITIES

- Over speed detection
- Vibration detection
- Rod pump control (RPC) pause and fault
- VSD pause and fault
- Emergency stop
- High and low load shutdown
- Operator defined faults (2)
- Restart options after power loss
- Controls pressurized oiling system
- Recognized loss of load cell signal

LIBERTY LIFT

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