

FlexLift

Low-profile pumping unit

APPLICATIONS

- Wells located in agricultural areas using overhead irrigation
- Wells near developed areas that would benefit from lower visibility

BENEFITS

- Delivers easy installation and maintenance
- Provides long service life of more than 25 years with proper maintenance
- Reduces operating height 10–15 ft

FEATURES

- High-load dual taper bearings for the roller assemblies
- High-capacity gear reducer designed far beyond API requirements
- Large, low-speed shaft for long life and increased counterbalance support
- Field-serviceable gear reducer design with bolt-on cranks



FlexLift low-profile pumping unit.

The FlexLift* low profile pumping unit is designed for applications where pump height is a critical concern. For locations with overhead irrigation systems, locations that are highly visible to the public, or locations with other conditions that would benefit from a low profile, the FlexLift unit is an optimal solution that offers many of the same benefits as a conventional pumping unit.

The primary differences between FlexLift pumping units and conventional units are:

- the structure of the FlexLift unit uses a uniquely designed crank arm, along with a belt and roller assembly, to provide the lowest possible overhead height
- the carrier bar is supported by the two belts instead of a wireline bridle assembly.

Main Specifications[†]

Model	F114-173-64	F160-173-74	F228-246-86	F320-246-86	F320-256-100	
Basic parameters	Rated polished rod capacity, lbm	17,300	17,300	24,600	24,600	25,600
	Stroke length, in	64	74	86	86	100
	Model	114D	160D	228D	320D	320D
	Rated torque, in.lbf	114,000	160,000	228,000	320,000	320,000
		Divided-flow type, two-stage, involute gearing				
Gear reducer	Reducing ratio	29.818	28.506	28.873	28.807	28.807
	Oil storage quantity, galUS	29	37	42.8	75	75
	Lubricant	ISO VG 150 gear lubrication oil in winter, ISO VG 220 gear lubrication oil in summer				
	Big pulley diameter, in	30	36	36	44	44
	Pulley groove type	4C	4C	4C	5C	5C
Balance assembly	Weight of crank counterweight, lbm	1,114 × 4	1,114 × 4	1,767 × 4	1,767 × 4	1,767 × 4
	Weight of aux. weight, lbm	335 × 8	331 × 8	472 × 8	472 × 8	472 × 8
	Weight of crank, lbm	2,002 × 2	2,242 × 2	3,406 × 2	3,309 × 2	3,731 × 2
	Fixed type of main base	Cross bars (levers)				
	Approx. total weight, lbm (e.g., prime mover)	26,032	28,292	36,788	39,000	40,029
	Overall dimensions Length × width × height, in	305.9 × 88.2 × 110.9	323.3 × 88.4 × 122.9	357.6 × 88.0 × 138.2	357.6 × 88.0 × 138.2	382.7 × 88.0 × 156.3

[†]The specifications provided are subject to change without notice and may vary according to modifications requested.