

HTD-1500-IL Hydraulic Inline Drive

Provides a reliable, economical solution for a variety of PCP applications, including heavy to light oil, coalbed methane, and water source wells

Applications

- PCP applications driven by hydraulic power
- Temporary installations or areas with no electricity

Features and Benefits

- With its small footprint, this lightweight and compact drive is especially useful for height-restricted areas and aesthetically sensitive environments.
- Two-point lifting system facilitates ease of handling.
- Polished rod passes directly through the hydraulic motor, which eliminates the need for gears or belts and sheaves to transmit power.
- With fewer moving parts, the drive design increases safety, reduces maintenance, and enables quieter operation.

Tool Description

The Weatherford HTD-1500-IL drive is a hydraulic drive with a torque capacity of 1,500 lbf-ft. It is compatible with Weatherford stuffing boxes and various wellhead connections.

Specifications

Drive type	Hydraulic inline drive
Prime mover type	Hydraulic
Braking mechanism ^a	Fixed-orifice check valve required
Dynamic bearing capacity	141,630 lbf (630,000 N)
Bearing Ca90 capacity	36,893 lbf (16,734 kgf)
Torsional rating	1,500 lbf-ft (2,034 N•m)
Maximum polished-rod speed ^b	500 rpm
Polished-rod size	1-1/4 in.
Maximum axial load	12 tonne
Main shaft type	Hollow
Hydraulic motor displacement	31.1 in. ³ /rev (509 cc)
• Torque at 1,000 psi ^c	412 lbf-ft (559 N•m)
• Torque at 2,000 psi ^c	825 lbf-ft (1,118 N•m)
• Torque at 3,000 psi ^c	1,237 lbf-ft (1,678 N•m)
• Torque at max 3,625 psi ^c	1,495 lbf-ft (2,027 N•m)

^aCan be supplied with drive or provided by end user on hydraulic power unit

^bDepending on hydraulic system (approximately 141-cc hydraulic pump at 1,800 rpm required)

^cTorque based on calculation at 100% hydraulic efficiency



The HTD-1500-IL hydraulic inline drive head has no gears or belts and sheaves, which reduces maintenance, minimizes exposure to moving parts, and makes the drive compact and quiet.

Options

- Integral, booth- and yoke-mounted stuffing boxes*
- Conventional, I-PAK®, and DuraSeal® stuffing box types
- Polished-rod speed indicator
- Polished-rod lock-out tool

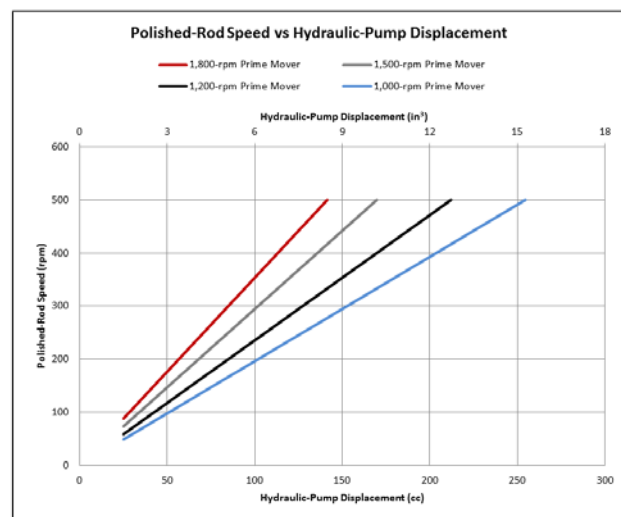
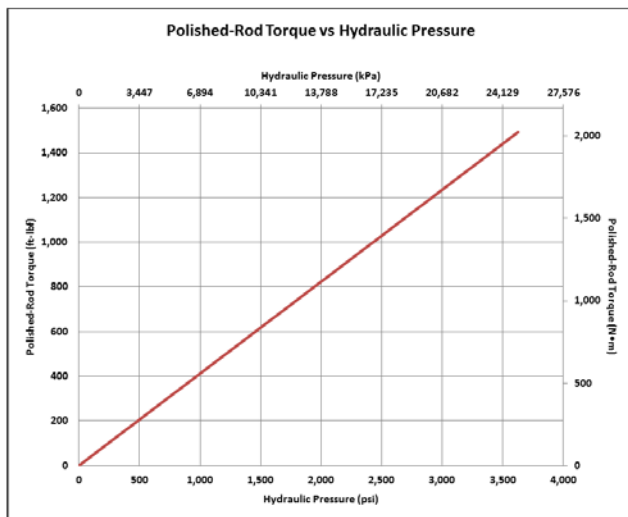
* Some conditions may apply



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Specifications

PR drive clamp type	8 bolt					
Available stuffing box (SB) mounting	12T two-post yoke, threaded cap, one-piece SB		33.6 T standard booth, bolt-on SB		Integral	
Available stuffing box type	Conventional	I-PAK®	Conventional	I-PAK	DuraSeal®	DuraSeal
Available stuffing box wellhead connection API compatible	2-7/8 EUE pin					
	3-1/8 3M flange					
	4-1/16 2M or 3M flange					
	5-1/8 2M or 3M flange					
Height: top of PR guard	89 in. (2,267 mm)				75 in. (1,899 mm)	
Height: top of PR clamp	59 in. (1,491 mm)				44 in. (1,124 mm)	
Width	19 in. (476 mm)				17 in. (432 mm)	
Approximate weight	628 lb (285 kg)				520 lb (236 kg)	
Maximum slant angle from vertical	45°					
Ambient operating temperature range	-40 to 122°F (-40 to +50°C)					
Minimum start-up temperature	-4°F (-20°C)					
Operating temperature range	-4 to 194°F (-20 to 90°C)					



Available polished-rod speed and torque will vary, depending on prime-mover speed and hydraulic-power-unit capabilities. Consult your local Weatherford representative for more information about designing your system for your particular well conditions.

* I-PAK is a registered trademark of Weatherford in the US and Canada. DuraSeal is a registered trademark of Weatherford in the US.

