

Hydraulic Roughneck 1898 (Manual) and 1899 (Automatic)

The Hydraulic Roughneck (HRN) is a machine designed to spin in / make up / break out / and spin out drill pipe, drill collar and other drilling tools / drilling equipment, such as: drill bits, stabilizers, strainers and subs with sizes ranging from 2 7/8" up to and including 9 3/4" diameter, in well center and at both forward and backward tilted mouseholes.

The gateless Torque Wrench (TW) is equipped with multi size jaws for easy and quick alternations between different tooljoint sizes.

Optional features

- Revolving pipe spinner assembly (improves utilisation range and service access)
- Automatic lubrication system
- Inverted main frame
- Various rail systems (e.g. skiddable, hinged, bolted)
- Remote operated box end washer and doping unit
- Break out torque record gauge
- Stabbing guide arm
- Special jaws for odd tooljoint size / shape / material
- Control panel on machine
- Wireless remote control (radio)
- High friction spinner rollers available upon request



HRN 1898. Operator's view from remote control panel.

Technical data	Standard	Optional	Unit
TW min. make-up torque	11,500 [8,500]	5,425 [4,000]	Nm [lbf ft]
TW max. make-up torque	135,000 [100,000]		Nm [lbf ft]
TW max. break-out torque	169,000 [125,000]		Nm [lbf ft]
TW min. stick-up height	700 [27,5]	700 [27.5]	mm [inch]
TW max. stick-up height	1,500 [59]	2,200 [86]	mm [inch]
SP max. speed (w/5 1/2" D.P)	0-160	0-80	rpm
SP max. torque (w/5 1/2" D.P)	2,750 [2,028]	5,500 [4,050]	Nm [lbf ft]
SP travel height	500 [19,7]	900 [35.4]	mm [inch]
Mousehole tilt	0-5°bwd	0-15° bwd / 0-8°fwd	Degr
Rail span (outside/outside)	1,850 [72.8]	1,120-2614 [44.1-102.9]	mm [inch]

Weight will vary from 5900 (13,000 lb) kg to 6300 kg (13,900 lb) depending on configuration and options.



Main control valve cabinet with local control panel. Main control valve cover removed.



HRN 1898 front view, pipe spinner revolved



Automatic HRN with stabbing arm & wide track.



Automatic Roughneck with inverted main frame