

LOGAN

RENTALS

127 mm and 165 mm

Xciter Variable Frequency Drill String Vibrator

The Xciter is a robust, user friendly tool that is added to the bottom hole assembly to enhance slide and rotary drilling performance under the most challenging of well-bore conditions. The Xciter uses positive displacement motor (PDM) power to rotate multiple sized masses that excite the drill string therefore breaking the static friction associated with slide drilling.

Benefits

- Minimal pressure drop (<200 psi)
- Enhances weight on bit control
- Reduces or eliminates of stick/slip
- Reduces use of Hevi-Wate or collars
- Enhances drill string component life
- Reduces possibility of differential sticking
- Reduces over pull on over-balanced wells
- Conventional fluid or two-phase flow operable
- EM, MWD, and LWD friendly
- Longer horizontal sections
- Increases rate of penetration
- Improved tool face control
- No dog collars or pick-up subs required

Operating Principles

The Xciter generates vibration on the X-Y axis thereby eliminating the need for a shock sub as no Z-axis vibration is created. Amplitude and frequency control are achieved by changing the flow configuration within the tool according to planned flow rates and the Xciter operates with all conventional fluids or two-phase flow, and is compatible with all standard drill pipe.

The Xciter is MWD, EM, and LWD friendly which means that the Xciter can be run in close proximity to them on the bottom hole assembly.

Operating Parameters	5" Xciter	6.5" Xciter
Flow Rate	800 – 1,200 lpm	1,135 – 2,270 lpm
Pressure Drop	608 – 860 kPa	600 – 970 kPa
Maximum Operating Temperature	High Temperature Resistant Configuration Available	
Maximum Over Pull	61,000 kg	155,000 kg
Xciter Frequency	Variable	Variable
Xciter Amplitude	Variable	Variable
Design Specifications		
Standard Connections	3-1/2" IF and 4" FH	4-1/2" XH and 4-1/2" IF
Length	9.2 m	9.1 m
Weight	531 kg	930 kg
Make Up Torque	13,500 ft-lbs	18,500 ft-lbs
Top and Bottom Sub I.D.	62 mm	61 mm
Top and Bottom Sub O.D.	133 mm and 122 mm	167 mm



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5" and 6-1/2"

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Operating Parameters	5" Xciter	6.5" Xciter
Flow Rate	100 – 450 gpm	250 – 600 gpm
Pressure Drop	70 – 130 psi	85 – 140 psi
Maximum Operating Temperature	High Temperature Resistant Configuration Available	
Maximum Over Pull	135,000 lbs	340,000 lbs
Xciter Frequency	Variable	Variable
Xciter Amplitude	Variable	Variable
Design Specifications		
Standard Connections	3-1/2" IF and 4" FH	4-1/2" XH and 4-1/2" IF
Length	31 ft	30 ft
Weight	1,170 lbs	2,050 lbs
Make-Up Torque	13,500 ft-lbs	18,500 ft-lbs
Top and Bottom Sub I.D.	2.4"	2.5"
Top and Bottom Sub O.D.	5-1/4", 4-3/4"	6-1/2"



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