PrecisionDebris Mill

Precision Mechanical Applications



Applications

- Removal of a wide range of wellbore debris e.g. scale, asphaltenes, cement stringers, rust
- Milling out glass plugs

Features and Benefits

- E-Line conveyed, powered device
- Combinable with PowerTrac® for conveyance
- Real-time monitoring of key milling parameters
- Can be run with a Hole Opener to achieve precise and smooth milling
- Optional Shock Absorber and mechanical Straight Pull Release Tool
- Optimized milling speed, reduced risk of stalling
- Precise, cost effective and low risk wellbore cleanout service
- Light on logistics, footprint, personnel and time

The PrecisionDebris Mill is used to remove debris preventing access to completion targets, causing internal diameter changes, or choking production/injection. It is run in combination with PowerTrac® for anchoring, coupled with a Direct Drive Rotation (DDR) device to generate the required rotational force. This service is designed without debris collection, with the debris either falling to the bottom of the well for collection in the rathole, or circulated out for surface collection.

Service Name	PrecisionDebrisMill 250	PrecisionDebrisMill 318
Min. rolling anchor system length[1]	23 ft (7 m)	
Min. rolling anchor system weight[1]	254 lbs (115 kg)	
Rotation device length[2]**, minimum**	8.8 ft (2.7 m)	7.0 ft (2.14 m)
Rotation device weight, minimum	91.5 lbs (41.6 kg)	151.6 lbs (70 kg)
Tool body OD[1]	2.50 in. (63.5 mm)	3.35 in. (85 mm)
Typical bit type used	Rock bit	
Minimum ID	2.63 in. (66.8 mm)	3.475 in. (88.3 mm)
Maximum ID	Customizable	
System pressure rating	15,000 psi (1,034 bar)	
System temperature rating	350°F (177°C)	
Operating torque[2]	≤ 110 Nm	≤ 115 Nm
Operational RPM[2]	≤ 180 rpm	
Min. system length[6]	35.8 ft (9.7 m) + bit length	30 ft (9.14 m) + bit length
Tensile strength	18,087 lbs (8,200 kg)	41,936 lbs (19,022 kg)

[1] Rolling Anchor system provides counter rotation anchoring and can be switched to drive anchor to provide addition WOB. Configuratable to increase
[2] Rotation device specified for Precision Mill 250 may be used in place of Precision Mill 318
[3] Brush Mandrel OD
[4] ID based on deployment system configuration. Can be set up to 2.5" as necessary
[5] Standard output. Customizable down gearing possible with a 3:1 gear
[6] Excluding optional equipment, release, correlation device or swivels

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