

Formation Evaluation

Xaminer® coring tool

Advanced wireline sidewall coring for high-quality

FEATURES

- Recovers up to 60 cores per descent with core separators; enhanced configurations enable recovery of over 80 cores per descent
- Rotating diamond bit cuts 1.5-in. OD by 2.3-in. long core samples
- Integrated core measurement for length and integrity
- Configurable for hard or unconsolidated formations

BENEFITS

- Delivers high-quality, undisturbed core samples
- Enables real-time decision-making and operational adjustments
- Optimizes recovery in challenging formation types

APPLICATIONS

- Can be used in hard- and soft-rock formations
- Enables accurate assessment of preexisting formation damage using undistorted core samples typically cause by percussion tools

Overview

The Halliburton Xaminer® coring tool drills large-diameter cores perpendicular to the borehole wall while monitoring the coring process in real time. After gamma ray depth positioning, a backup shoe is extended to decentralize and the tool and secure it against the formation. A rotating diamond bit cuts a 1.5-in. OD by 2.3-in. long core sample. Surface control of weight-on-bit optimizes drilling for each core.

After the sample has been cut, the bit tilts slightly to break the core from the formation. The tool then rotates the bit and sample into the body, where it measures the core's length and integrity before placing it in the receiver tube. Operators can monitor the entire process remotely, allowing customers to stay fully engaged as if present at the wellsite. The customer has a real-time table of coring results to allow rapid changes in the coring operation for maximum efficiency and recovery.

The Xaminer coring tool typically recovers up to 60 cores per descent using core separators. With enhanced configurations, it can recover more than 80 cores per descent.

The Xaminer coring tool is often used in hard formations where percussion core guns may not provide the best recovery. Additionally, the tool can be configured to enhance performance in unconsolidated or extremely hard formations to optimize recovery.



Rotary core applications

Rotary core samples collected by the Xaminer® coring tool can be used to provide:

- More accurate measurements of porosity and permeability that reduce reservoir analysis variables. Percussion tools can introduce microfractures that distort these readings
- Data that refines magnetic resonance imaging (MRIL®) tool interpretation
- Reliable triaxial stress data for rock mechanical analysis, necessary for hydraulic fracturing design, wellbore stability analysis, and sand-potential prediction

Health, safety, and environmental benefits

The Xaminer coring tool can enhance safety by eliminating the need to use explosives.

Xaminer® coring tool specifications

LENGTH	DIAMETER	MAXIMUM PRESSURE	MAXIMUM TEMPERATURE	WEIGHT
FT (M)	IN. (MM)	PSI (MPA)	°F (°C)	LB (KG)
32.9 (10.0)	6.0 (152.4)	35,000 (241.3)	400 (204)	960 (435.4)



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