

PowerCOR Ultra service

Advanced coring technology

The Baker Hughes **PowerCOR™ Ultra service** is an advanced, computer-controlled, and electrically powered coring device for cutting and retrieving up to 60 sidewall core samples in a single run.

Reliable, versatile service

The PowerCOR Ultra service acquires uniformly sized sidewall cores under a wide range of formation conditions. It is a versatile service that can be deployed in various formation types—from soft to hard rocks and from sand and shale to carbonate. A graphical surface system continuously monitors and allows real-time control of the coring and sample storage operations.

Fast, high quality core delivery

A powerful direct-drive electric motor provides maximum power transfer efficiency. Advances in electric power management keep the bit moving consistently with variable power (torque) requirements encountered during the coring operation. In addition, the bit design is optimized to make the most of the high rotational speed and provide more efficient removal of the cutting debris during the coring operation.

Customers require cores of adequate length and condition that would eventually reduce cost related to conventional coring. The PowerCOR Ultra service incorporates hardware enhancements to expand the envelope of coring in high overbalance and mobility. A formal planning workflow with the enhancements increases the core recovery in challenging formations.

Specifications

Temperature rating	400°F (204°C)
Pressure rating	25,000 psi (172.4 MPa)
Minimum hole Size	5.875 in. (149.2 mm)
Maximum hole Size	17 in. (431.8 mm)
Outside diameter	4.75 in. (120.7 mm)
Core diameter	1 in. (25.4 mm)
Core length	1.8 in. (45.7 mm)

Applications

- Geo-chemistry
- Geo-mechanics
- Biostratigraphy
- Reservoir geology/petrology
- Rock properties
- Wireline log calibration

Benefits

- Efficiently acquires up to 60, 1-in. outside diameter (OD) samples per run for reservoir rock analysis
- Direct-drive electric motor for maximum power transfer consistently retrieves quality core samples with less coring time
- High core-recovery efficiency even under hostile environments
- Graphical user interface provides reliable service with high core-recovery efficiency, and monitors and controls the operation
- A wide range of borehole sizes, including small borehole sizes down to 5-7/8 in.
- Hardware enhancements and planning workflow improves core recovery and quality