

## ECR18 (Track Driven) Core Drill Specifications

*Note: The maximum depth capacity of this core rig depends on several factors, primarily the mechanical limits of the drill string, including the pipe grade, connection strength, and safety factors.*

The Alaska Drilling and Completions (ADC) ECR18 Track-Mounted Diamond Core Drill Rig is a compact, highly maneuverable coring unit engineered for efficient drilling in tight, remote, or environmentally sensitive areas. Built on a durable tracked platform, the ECR18 offers exceptional mobility across rough, steep, or soft terrain with minimal surface disturbance. Despite its compact footprint, the rig delivers outstanding performance and can deliver HQ core samples from depths of up to 3,840 feet, making it ideal for medium to deep-hole applications. Its advanced hydraulic feed system ensures smooth, precise control. Purpose-built for early to mid-stage exploration and limited-access drill sites, the ECR18 combines power, reliability, and mobility in a field-proven design.

Drill Rod / Core Barrel	Fluid Filled
BQ	7,382 ft
NQ	5,840 ft
HQ	4,800 ft
PQ V-Wall	4,225 ft

Hydraulic System (Factory Setting)		
Primary Pump	Axial piston, variable displacement load sensing	
Max Flow	47 gpm	180 L/m
Max Pressure	4,061 psi	28 MPa
Secondary Pump	Axial piston, variable displacement load sensing	
Max Flow	18 gpm	70 L/m
Max Pressure	2,500 psi	20 MPa
1st Auxiliary Pump	Gear, Fixed Displacement	
Max Flow	11 gpm	44 L/m
Max Pressure	1,450 psi	10 MPa
2st Auxiliary Pump	Gear, Fixed Displacement	
Max Flow	9 gpm	35 L/m
Max Pressure	870 psi	6 MPa

Feed System / Drill Mast	
Feed Stroke	11 Feet / 3.5 Meters
Pull Capacity @ 2,000 psi	38,481 lbf / 17,454 kg
Thrust Capacity @ 2,000 psi	15,505 lbf / 7,032 kg
Rod Pull	20 Feet / 3 or 6 Meters
Drilling Angle	45° off horizontal to 90° vertical down
Foot Clamp	PW

Accessories	
Rotation Guard	
Fallsafe Footclamp	
Rod Kicker	
Drillspeed gauge	
Leveling Jacks	
Track Driven Base	
Fluid circulation pumps (diesel supply and pressure)	
Mud mixer	

Power Unit (PU)	
Engine	Cummins 6CTAA8.3C, 6 cylinder, turbo charged, after cooled diesel engine
Size	8.3L
Horse Power (HP)	260 HP @ 2200 RPM
Cooling	Water Cooled

PQ Drill Head - Optional			
Type	Hollow Spindle		
Size	P, Accepts up to 117 mm 4 5/8 In		
Chuck	Hydraulic		
Transmission Gear Ratio	1st Gear	7.16:1	
	2nd Gear	3.17:1	
	3rd Gear	1.76:1	
	4th Gear	1.00:1	
RPM / Torque	Gear	RPM	Torque / lbf
	1st	128-178	5,541-3,990
	2nd	268-400	2,462-1,774
	3rd	511-711	1,385-998
PU @ 2200 RPM (No Load)	4th	920-1200	770-554
	Max Torque	5,541 ft / lbs	
Max RPM	1,250 rpm		

Hoists		
Main Line Max Pull	26,455 lb	12,000 kg
Speed / Bare Drum (7/8" wire rope)	131 ft/min	41 m/min
Wireline / Bare Drum	2,361 lb	1,071 kg
Speed/ Bare Drum	337 ft/min	115 m/min
Drum Capacity	4,921' of .25" cable	

ADC's LF-70T Diamond Core Rig with Track Driven Base on Location

