

EVERDIGM ECR12 CORE DRILL RIG



ECR12 TECHNICAL SPECIFICATIONS

DRILLING CAPACITY

B wireline 1,500 m (4,921 ft)
N wireline 1,190 m (3,904 ft)
H wireline 790 m (2,592 ft)
P wireline 480 m (1,575 ft)

The figures have been calculated. Actual drilling depth will depend on in-hole tools, conditions, and drilling techniques.

POWER UNIT

Manufacture: Cummins
Model: 6CTAA8.3C, Tier2
Displacement: 8.3 L, 6 cylinder
Power: 152 kW (205 hp)
RPM: 2,200
Engine type: Turbocharged, after cooled diesel engine
Cooling: Water
Electrical system: 24 V (Alternator 24V/70A)

HYDRAULIC SYSTEM

Primary pump: Axial piston, variable displacement
28 MPa, 180 Lpm (4,061 psi, 47 gpm)
Secondary pump: Axial piston, variable displacement
20 MPa, 70 Lpm (2,900 psi, 18 gpm)
1st auxiliary pump: Gear, fixed displacement
10 Mpa, 44 Lpm (1,450 psi, 11gpm)
2nd auxiliary pump: Gear, fixed displacement
6 Mpa, 35 Lpm (870 psi, 9 gpm)
Hydraulic oil cooling: Air

DRILL HEAD

Hollow spindle(inside diameter): 117 mm (4 5/8 inch)
Rotation motor: Variable/reversible hydraulic motor
Mechanical transmission: 4 speed
1st ratio: 7.16:1
2nd ratio: 3.17:1
3rd ratio: 1.76:1
4th ratio: 1.00:1
Final drive: Gear driven in oil bath
Ratio: 2.5:1

RPM and torque rating

Gear ratio	Speed (RPM)	Torque, Nm (lb-ft)
1st gear	134 - 189	4,155 - 2,947 (3,064 - 2,173)
2nd gear	303 - 426	1,847 - 1,310 (1,362 - 966)
3rd gear	538 - 758	1,039 - 737 (766 - 564)
4th gear	968 - 1,364	577 - 409 (425 - 313)

Hinged head: swing away

Chuck assembly:

Type: Hydraulic opened, spring closed
Maximum inside diameter: 117 mm (4 5/8 inch)
Holding capacity: 18,144 kg (40,000 lb)

ROD HOLDER

Type: Hydraulically opened/closed
Maximum inside diameter: 117 mm (4 5/8 inch)
Holding capacity: 13,012 kg (28,680 lb)

MAST AND FEED SYSTEM

Feed travel: 3.25 m (10.7 ft)
Feed speed: Fast and slow with variable control
Thrust capacity: 45.3 kN (10,176 lb)
Pull capacity: 114.6 kN (25,761 lb)
Drilling angle: 45 to 90 degrees
Rod pull length: 6 m (19.7 ft)

MAIN HOIST

Line pull capacity: Bare drum 79.4 kN (17,857 lb)
Line speed: Bare drum 41 m/min (134 ft/min)
Cable size: 30 m (98 ft) of 16 mm (0.62 inch)

WIRELIN HOIST

Line pull capacity: Bare drum 10.5 kN (2,361 lb)
Line speed: Bare drum 115 m/min (377 ft/min)
Cable size: 1,500 m (4,921 ft) of 5 mm (0.19 in)

HYDRAULIC LEVELING JACK

Support: 4 hydraulic jacks
Pad diameter: 220 mm (8.66 inch)
Travel length: 600 mm (23.6 inch)

CRAWLER

Manual controlled, max speed 3.3 km/h (2.1 mile/h)
Heavy duty crawler band: 380 mm (15 inch) wide

WEIGHT AND DIMENSIONS

Weight: 8,000 kg (17,636 lb)
Dimensions (L-W-H)

Transport position (top mast removed)		
5,230 mm (17.16 ft)	2,310 mm (7.58 ft)	2,530 mm (8.30 ft)
Transport position (top mast folded)		
5,240 mm (17.19 ft)	2,690 mm (8.83 ft)	2,530 mm (8.3 ft)

Weight and dimensions are approximations and should be checked before crating and lifting.

STANDARD EQUIPMENT

- Hydraulic mast dump - Hydraulic mast raise - Mast in 2 sections - Crown sheave
- Rod kicker - 4 hydraulic leveling jacks - Manual controlled crawler - Drill speed gage
- Mud pump pressure gage - Front, rear headlight and work light
- Hydraulic connection for mud pump and mud mixer - Hydraulic rod holder

HQ-sized jaws are equipped with chuck and rod holder as a standard. Upon request, BQ/NQ/PQ-sized jaws can be equipped with chuck and rod holder. Additional dimension kits(BQ/NQ/HQ/PQ) are available.

OPTIONS

Hydraulic driven mud pump

Manufacture: American manufacturing
Model: AW1122BCD
Max flow: 130 Lpm (34.3 gpm)
Max pressure: 5 MPa (725.2 psi)

Remote controlled crawler

Cable and wireless remote control available

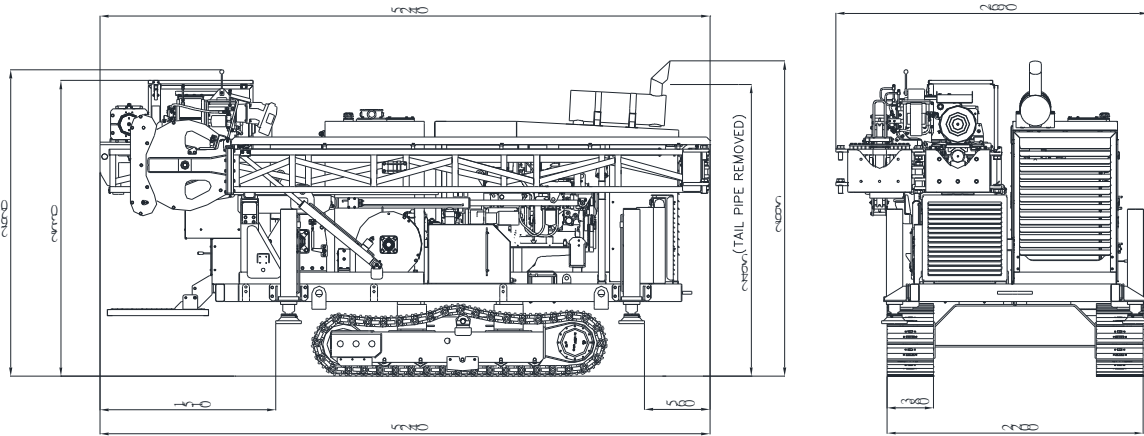
Upper hoist limit

Dimension kit

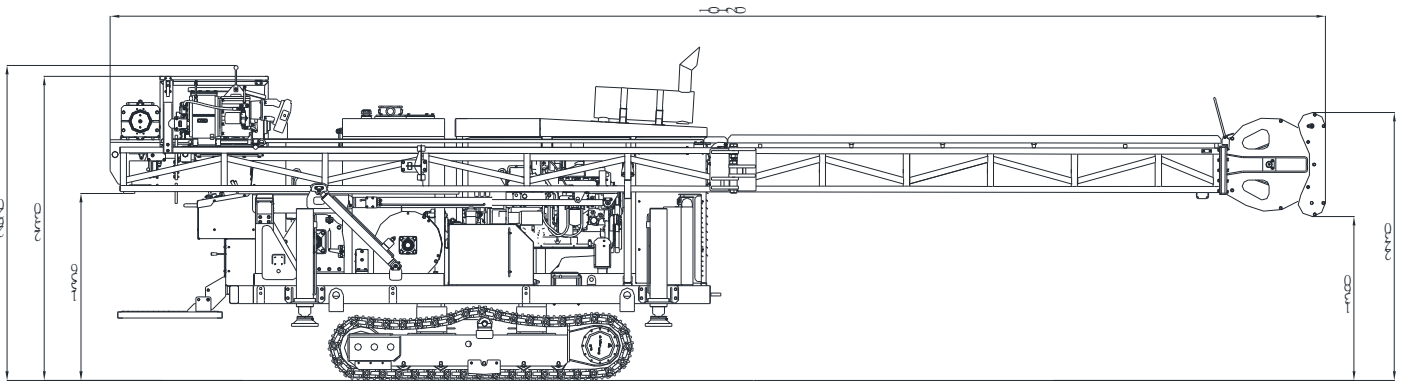
BQ chuck jaw/bushing kit & rod holder jaw/bushing kit
NQ chuck jaw/bushing kit & rod holder jaw/bushing kit
HQ chuck jaw/bushing kit & rod holder jaw/bushing kit
PQ chuck jaw/bushing kit & rod holder jaw/bushing kit

ECR12 DIMENSIONS

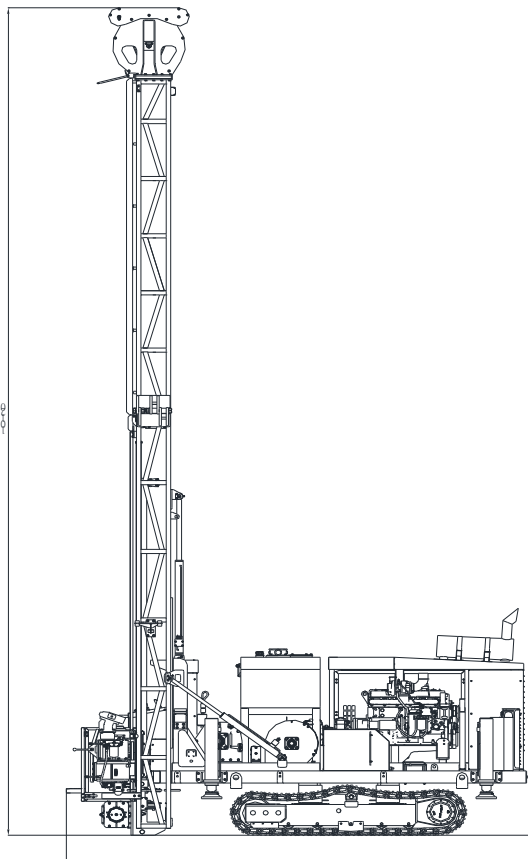
TRANSPORT - TOP MAST FOLDED



MAST - HORIZONTAL



MAST - VERTICAL



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