

# EVERDIGM ECR18 CORE DRILL RIG



# ECR18 TECHNICAL SPECIFICATIONS

## **DRILLING CAPACITY**

B wireline	2,250 m (7,382 ft)
N wireline	1,780 m (5,840 ft)
H wireline	1,180 m (3,871 ft)
P wireline	800 m (2625 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:	193 kW (260 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, 250 Lpm (4,061 psi, 66 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	128 - 178	5,541 - 3,990 (4,086 - 2,942)
2nd gear	288 - 400	2,462 - 1,774 (1,815 - 1,308)
3rd gear	511 - 711	1,385 - 998 (1,021 - 736)
4th gear	920 - 1,200	770 - 554 (567 - 408)

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: 3.5 m (11.5 ft)  
Feed speed: Fast and slow with variable control  
Thrust capacity: 69.0 kN (15,505 lb)  
Pull capacity: 171.2 kN (38,481 lb)  
Drilling angle: 45 to 90 degrees  
Rod pull length: 6 m (19.7 ft)

## **MAIN HOIST**

Line pull capacity: Bare drum 117.7 kN (26,455 lb)  
Line speed: Bare drum 40 m/min (131 ft/min)  
Cable size: 30 m (98 ft) of 20 mm (0.79 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: 2,300 m (7,546 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: 9,000 kg (19,841 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

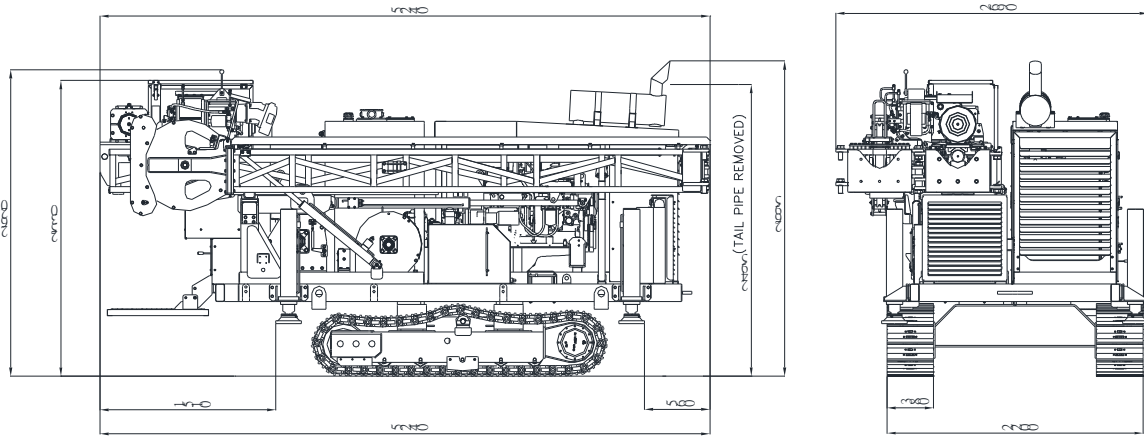
Upper hoist limit

Dimension kit

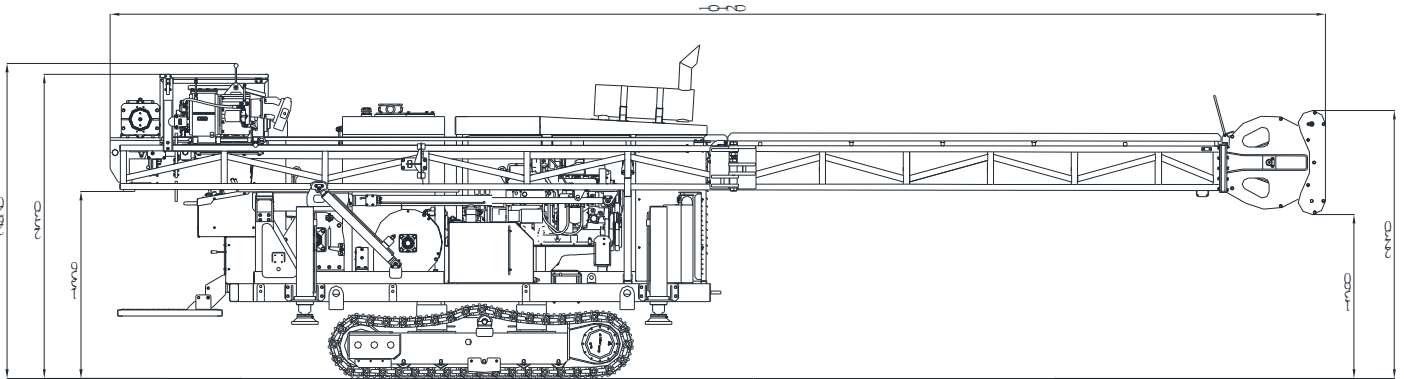
BQ chuck jaw/bushing kit & rod holder jaw/bushing kit  
NQ chuck jaw/bushing kit & rod holder jaw/bushing kit  
HQ chuck jaw/bushing kit & rod holder jaw/bushing kit  
PQ chuck jaw/bushing kit & rod holder jaw/bushing kit

# ECR18 DIMENSIONS

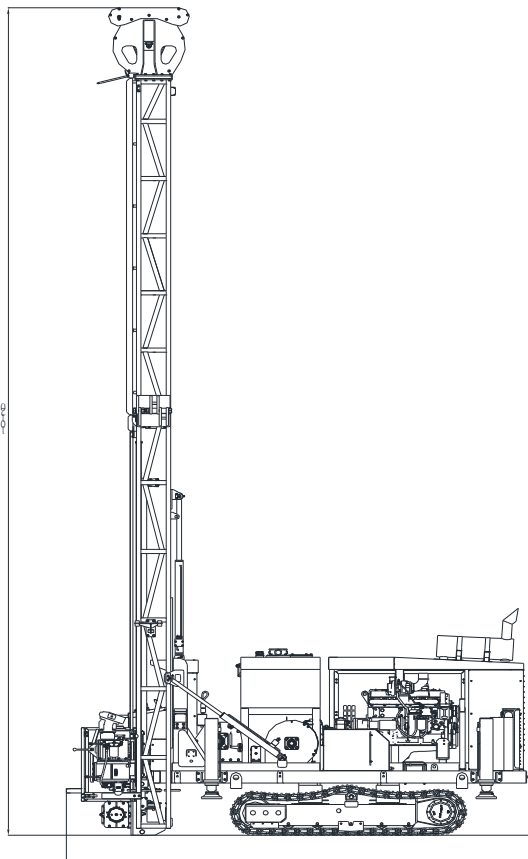
## TRANSPORT - TOP MAST FOLDED



## MAST - HORIZONTAL



## MAST - VERTICAL



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