

EVERDIGM

EVERDIGM CORE DRILL RIGS



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STANDARD FEATURES & OPTIONAL EQUIPMENT

As a true core drill rig, ECR12/18 can cope with the toughest conditions

ROTARY HEAD

1 Standard Swing out rotary head





- Swings out on a pivot for rod handling
- Effective for vertical drilling

2 Optional Side shift rotary head





- Slide sideways for rod handling
- Makes it easier for rod handling at angle hole drilling
- Equipped with double safety device: lever lockout, on/off valve to prevent accidental actuation

FAIL SAFE FOOT CLAMP



- Fail safe mechanism: wedge force operated
- Designed for use with a working range of BQ, NQ, HQ, PQ, PW
- Easy to maintain and repair with spare parts
- Both mounting types available for swingout rotary head and side shift rotary head

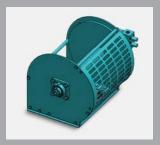




WIRE LINE WINCH

1 Standard Wire line winch





2 Optional Wire line winch with level wind





Wire line wire is evenly distributed in spooling

OUTRIGGER

1 Standard Outrigger



2 Optional Extendable outrigger



- Extends vertically and horizontally to load on to low bed truck/trailer
- Makes it more stable on rough terrain
 Remote control or manual lever control
- Remote control or manual lever control is available

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TRAVEL CONTROL

Standard Manual lever control





2 Optional Remote control







 Proportional remote control transmitter



Proportional remote control receiver

WATER / MUD PUMP PACKAGE OPTIONAL



- Mandatory for core drilling
- Composed of mud pump, motor, safety valve, mounting frame
- Easily attachable to the base machine with bolts
- Powered by hydraulics from base machine

Cable and wireless remote are available simultaneously

COOLING MODULE

Standard



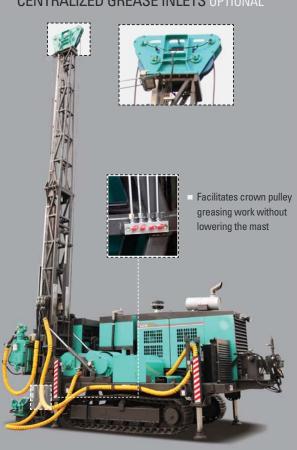
Suitable for ordinary climate zone

2 Tropical Zone type



Suitable for tropical climate zone

CENTRALIZED GREASE INLETS OPTIONAL





ROTATION GUARD

1 Standard Rotation guard



2 Optional Spin cage with safety device



SIDE GUARD OPTIONAL



- Prevents human entrance during operation
- Easily removable

UPPER HOIST LIMIT OPTIONAL



- Composed of U shaped lever, inductive proximity sensor, solenoid valve
- Gives signal to the solenoid valve to stop the main winch when main winch wire rope is fully wound and the hoisting plug activates the sensor on the U shaped lever





MAST AND FEED SYSTEM

	ECR12	ECR18
Feed travel	3.25 m (10.7 ft)	3.5 m (11.5 ft)
Feed speed	Fast and slow with variable control	
Thrust capacity	45.3 kN (10,176 lb)	69.0 kN (15,505 lb)
Pull capacity	114.6 kN (25,761 lb)	171.2 kN (38,481 lb)
Drilling angle	45 to 90 degrees	
Rod pull length	6 m (1	9.7 ft)

POWER UNIT

	ECR12	ECR18
Manufacturer	Cumm	ins
Model	6CTAA8.3C, Tier2	
Displacement	8.3 L, 6 cylinder	
Power	152 kW (205 hp)	193 kW (260 hp)
RPM	2,20	0
Engine type	Turbocharged, after cooled diesel	
NO STREET	engir	ne
Cooling	Wat	er
Electrical system	24 V (Alternato	or 24V/70A)

Max. rod size Holding capacity

ROTARY HEAD		
	ECR12	ECR18
Hollow spindle	117	mm
(Inside diameter)	(4 5/8	inch)
Rotation motor	Variable/reversible	e hydraulic motor
Mechanical transmission		
1st ratio	7.16:1	
2nd ratio	3.17	7:1
3rd ratio	1.76	S:1
4th ratio	1.00):1
Final drive	Gear driven	
	Ratio :	2.5:1
1st ratio	134 - 189	128 - 178
Speed 2nd ratio	303 - 426	288 - 400
RPM (RPM) 3rd ratio	538 - 758	511 - 711
and 4th ratio	968 - 1,364	920 - 1,200
torque 1st ratio	4,155 - 2,947 (3,064 - 2,173)	5,541 - 3,990 (4,086 - 2,942)
rating Torque, Nm 2nd ratio	nd ratio 1,847 - 1,310 (1,362 - 966) 2,462 - 1,774 (1,815 - 1,308)	
(lb, ft) 3rd ratio	1,039 - 737 (766 - 564)	1,385 - 998 (1,021 - 736)
4th ratio	577 - 409 (425 - 313)	770 - 554 (567 - 408)
Hinged head	Swing	away
Туре	Hydraulic opened,	
Chuck	spring o	closed
assembly Max. inside diameter	117 mm (4	5/8 inch)
Holding capacity	18,144 kg (40,000 lb)
Harry March		
OOT CLANAD		
OOT CLAMP		,即 为"一"
	ECR12	ECR18
Type	Hydrauically o	pened/closed
Max. rod size		
II IP		

13,012 kg (28,680 lb)

HYDRAULIC SYSTEM

	ECR12	ECR18
Primary pump	Axial piston, variable displacement	Axial piston, variable displacement
	28 MPa, 180 Lpm (4,061 psi, 47 gpm)	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, 11 gpm)
2nd auxiliary pump	Gear, fixed displacement	
	6 MPa, 35 Lpm (870 psi, 9 gpm)	
3rd auxiliary pump	Gear, fixed displacement	
	20 MPa, 10 Lpm (2,900 psi, 2.6 gpm)
Hydraulic oil cooling	A	vir

OUTRIGGER

	ECR12	ECR18
Support	4 hydraulic le	veling jacks
Pad diameter	220 mm (8.66 inch)	
Travel length	600 mm (2	3.6 inch)

CRAWLER

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

STANDARD EQUIPMENT

Manual controlled crawler	Hydraulic connection for mud pump and mud mixer
4 hydraulic leveling jacks	Fail-safe foot clamp
Rod kicker	Hinged swing out rotary head
Drill speed gage	Rotation guard
Mud pump pressure gage	Support legs
Front, rear headlight and work light	

OPTIONS

	TVTGTTGTGTGTGT	7 iiii Gii Gairi iii airara Gaariii g
Hydraulic driven	Model	AW1122BCD
mud pump	Max. flow	130 Lpm (34.3 gpm)
	Max. pressure	5 MPa (725.2 psi)
Remote controlled crawler (cable and wireless remote control available simultaneously)		
Wireline hoist with level winder		
Side shift rotary h	ead	

Upper hoist limit

Spin cage with safety device

Centralized grease inlets for crown pulley

Side guard

BQ chuck jaw/bushing kit & foot clamp jaw kit NQ chuck jaw/bushing kit & foot clamp jaw kit PQ chuck jaw/bushing kit & foot clamp jaw kit PW foot clamp jaw kit

WEIGHT AND DIMENSIONS

WEIGHT

ECR12 8,000 kg (17,636 lb)

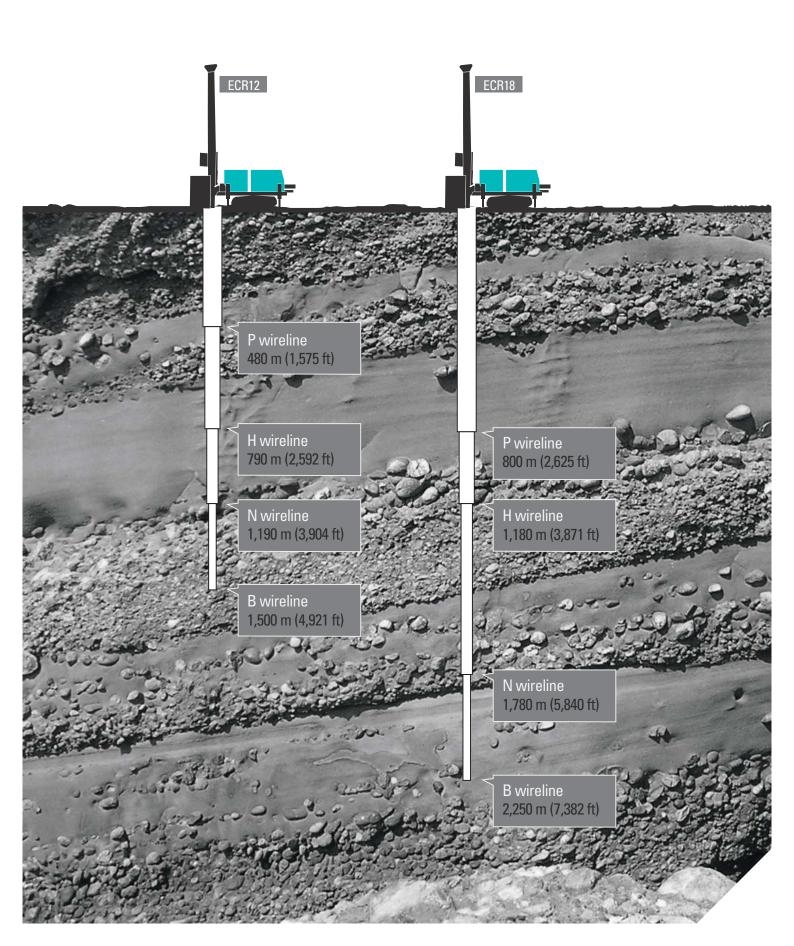
ECR18

9,000 kg (19,841 lb)

MAST HORIZONTAL 10,120 mm 2,620 mm 2,530 mm 1,556 mm TRANSPORT TOP MAST FOLDED 5,240 mm 2,620 mm 2,530 mm 2,495 mm (Tail pipe 560 mm 1,510 mm 5,240 mm 2,690 mm **MAST VERTICAL** 2,200 mm 5,020 mm

^{*} Weight and dimensions are approximations based on the rig with standard equipment and should be checked before crating and lifting.

DRILLING CAPACITY



EVERDIGM "EVERLASTING PARADIGM"

EVERDIGM is large sized company with \$300M turnover manufacturing high-end Construction, Mining, and Special Purpose Vehicle in Korea. The products have been globally distributed and serviced in 90 countries through 140 distributors. EVERDIGM has been growing based on the platform of advanced quality, professionalism and real satisfaction. Standing behind the customers taking responsibility for its products at all of stage its product life cycle is always EVERDIGM's commitment.

TOTAL SOLUTION PROVIDER CREATING MORE VALUE FOR FUTURE GENERATION

EVERDIGM's decision making is a reflection of 3 principles: Our family, Future generation's life, and Your satisfaction. We are not just a manufacturer of equipments, but we put greater emphasis on providing high quality equipments that suits your needs in any sites around the world and provide efficient after-sales service to support your business, as a World Top Class manufacturer.

Our ultimate mission is to become 'Total Solution Provider in Construction, Demolition, Mining and Rescue industries' and 'A faithful supporter to make a real satisfaction for customer, employee, and society'. EVERDIGM will continue to share ideas with our customers and be ready to Innovate and Implement changes that will keep us flexible and efficient in dynamic market place.

*Specifications contained in the catalogue may be changed without prior notice for improvement of quality and performance

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