

Features

Remote controlled drillers panel

The control panel can be set up at a distance of 10 meters from the drillrig for maximum visibility and safety. The ergonomically designed panel offers comfortable and precise control over drilling, rod handling and sampling. Engine-, compressor- and hydraulic performance is monitored on an all weather display as well as eventual alarms and discrepancy reports.



Cylone

The efficient, high volume sample cyclone is rig mounted and hydraulically retractable. Fitted with a sample collection box and individually operated doors, produces accurate and fast sampling while minimising dust. The cyclone is tiltable and enables cleaning and replacement of the high-tech, long life ceramic wear components by personnel standing on the ground.



Power pack

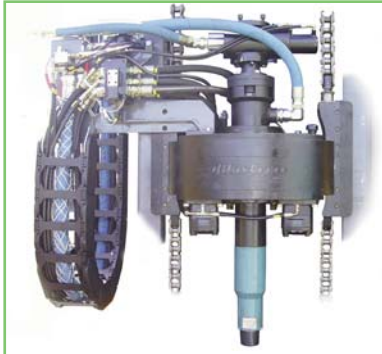
The Explorac 220 RC is powered by a electronically governed Caterpillar C18 engine with emission data surpassing Euro 3 standards.



EXPLORAC 220RC

Rotation unit

The "trough the head" system and above head swivels and blowback are all designed and built for optimum performance, low wear characteristics and easy maintenance



Compressor

The Atlas Copco XRX 12 compressor is a new 30 bar pressure two stage rotary screw compressor. Compact and lightweight, it is ideally rated for RC drilling and requires low engine power leading to significant fuel savings. Multiple connection points are provided for safe positioning of an auxillary compressor and/or booster compressor. All air line pipes are steel rated to 70 bar.



Breakout table

A versatile fully hydraulic table guides and locks the drillpipes and drilling tools through a max. 305 mm free opening. A sliding key for standard pipe slots. A hands-free wrench provides safe breakout performance.



Rod handler

The rod handler is a proven and versatile component of the rig. It provides totally hands free loading, unloading and stacking of drillpipe both from the rig and from a rod truck or racks that can be positioned anywhere within a 210 degree arc to the side or rear of the rig. It is operated by remote control, by either the driller or helpers.



Explorac Range 2007

- | | |
|-----------------|--|
| Explorac R50 | - Unit ready to drill with onboard mudpump and external compressor |
| Explorac 220 RC | - With a 30 bar onboard compressor powered by deck engine |
| Explorac 220 | - Unit ready to drill with external mudpump and/or external compressor |
| Explorac 220 M | - With onboard mudpump hydraulically driven by truck engine PTO |

Atlas Copco reserves the right to make modifications without prior notice.

Atlas Copco

Atlas Copco Craelius AB
 Visitor address Bristagatan 13, Märsta Sweden
 Mail SE-195 82 Märsta, Sweden
 Phone +46 8 587 785 50 Fax +46 8 591 187 82 WWW.atlascopco.com/craelius

2006 12 14

6991 1348 01a

Atlas Copco Exploration drilling Explorac 220RC

Purpose built for professional RC drilling

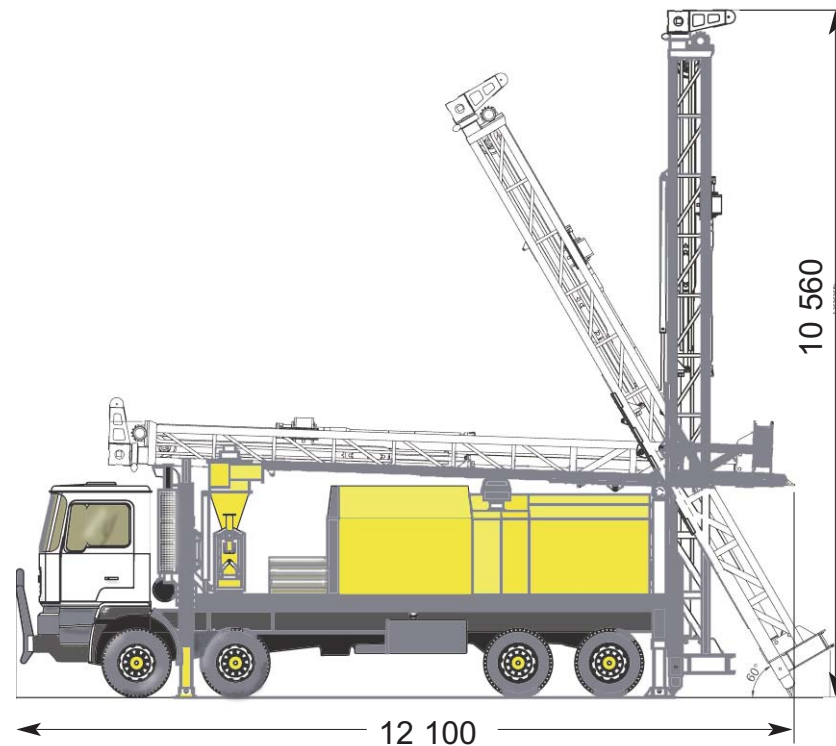
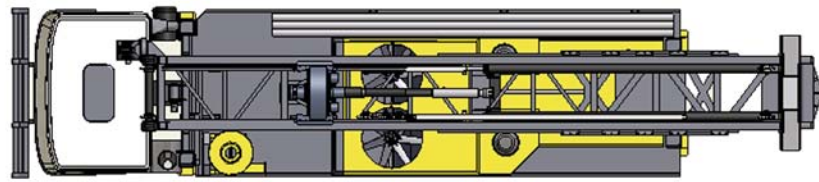


With safety and ergonomics as key issues together with latest technology the Explorac 220RC is made the safest and most user friendly rig of its type.

Experience gained from building and operating deephole rigs for 20 years have produced a compact and rugged rig meeting the demand from leading RC drilling contractors.

Atlas Copco

Explorac 220 dimensions



	Indicative weights (kg)	Shipping dimension (cm)
Drill rig	20 000	
Carrier	11 000	
Total	31 000	1210 x 250 x 428

Mast

Feed beam with hydraulic rams
Guide chain for hyd. hoses.

Angle drilling vertical to 45 deg
Total length, incl. jib boom 10 520 mm
Mast dump

Feed system

Pullback 220 kN
Feed force (restricted) 75 kN
Travel length 7 680 mm
Drilling speed, max 4,2 m/min
Fast travel down, max 34 m/min
Fast travel lift 44 m/min

Rotation unit

Single reduction gearbox fitted with two 630 cm³ hydraulic geroler motors

Mode	Serie	Parallel
r/min	0 - 101	0 - 50
Torque	7 000 Nm	14 000 Nm

at 240 bar, 240 l/min

Spindel adaptor thread 4½" IF
Integrated RC swivel for air and sample with blow down valve

Slips and Breakout

TRC slipstable max. opening 12 in. 305mm
Hydraulically activated slips with integrated holding clamp
Hydraulically operated sliding key
Hydraulically operated handsfree breakout system

Handling Hoist BW 1500

Cable rope 10 mm x 30 m
Pull on 1.st layer 15 kN
Speed on 1.st layer 40 m/min
Includes automatic brake and shut-off for minimum rope on drum
Winchboom is mounted on slewing ring providing reach from drilling centerline to rod rack (approx. 180 deg.)

Wireline winch

Cable rope 6 mm x 300 m
Pull on 1.st layer 3,4 kN
Speed on 1.st layer 3 m/sec

Pipe rack

Holds 15 pipes OD 4½", length 20 ft.

Line oiler

Electrically activated line oiler, 4 speed
Capacity adjustable from 0,4 to 2 l/h

Foam pump

Hydraulically direct driven 2 cylinder reciprocating foam/water pump with control valves, suction- and delivery hose.
Rated capacity 75 l/min at 90 bar
max. 3 m suction lift

Diesel engine Caterpillar

Cat 4-stroke watercooled, twin turbocharged aftercooled, diesel engine

Model CAT C-18 ACERT ATAAC
Rated power 522 kW @ 1 800-2 100 r/min
Torque 2 769 Nm @ 1 800 r/min
Fuel consumption 219.4 g/kWh @ 1 800 r/min
(approx. 136.5 l/h @ full load)

Cylinders 6, in line
Bore / Stroke 145 / 183 mm
Displacement 18.1 l
Electrical system 24V
Weight 1332 kg
Fuel tank located under deck on right hand side
- Capacity 500 litres

Hydraulic system - basic

Hydraulic pump, Rotation and fast feed Rexroth A11V0190
Hydraulic pump Aux. function Rexroth A10V071
Hydraulic pump Slow feed Rexroth A10V045

Valve block Rotation, Feed. (remote control) Rexroth Type M4-15
Valve block Winch, Waterpump Rexroth Type NG6
Valve block Aux.(remote control) Rexroth Type M4-12
Valve block Slow feed (remote control) RexrothType
NG6Valve block Set up (direct operated) Parker Series P70
Tank, with breather and electrical filling pump 400 l

Cooler system

V-cooler with twin 900 mm fans, computer controlled speed
Ambient temp to + 50 deg. C

Cyclone RC

Capacity 850 l/s 1800 cfm

Hydraulic jacks

Front: two hyd. jacks extends 1 200 mm
Rear: two hyd. jacks extends 1 200 mm

Fire suppression system

Thermostatically controlled fire estinguish system puts out fire inside engine- and hydraulic system canopy. Capacity 130 l.

On-board compressor XRX 12

Atlas Copco two stage screw compressor
Capacity free air delivery FAD 570 l/s @ 24 bar
510 l/s @ 30 bar
Pressure max. 30 bar

Safety alert system

Emergency stop buttons: one on control panel, 4 on rig
Horn

Options

Splitter
Wire line hoist
Rod handler
Fire suppression