

# Setting The Pace

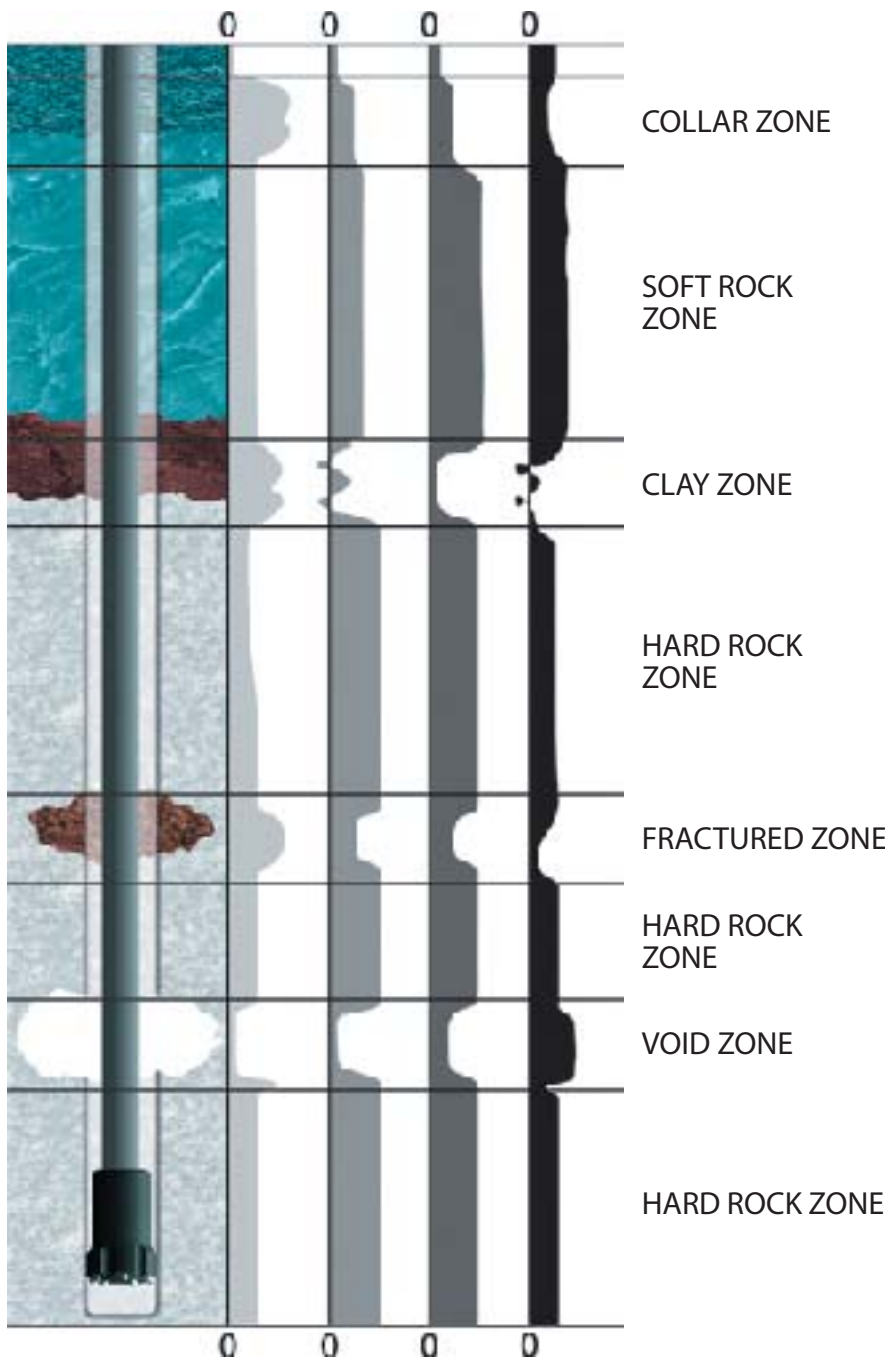
Hydraulic Crawler Drills

ECM-720 | CM-760D | CM-780D



HOLE QUALITY | PENETRATION RATE | ACCESSORY LIFE

*Atlas Copco*



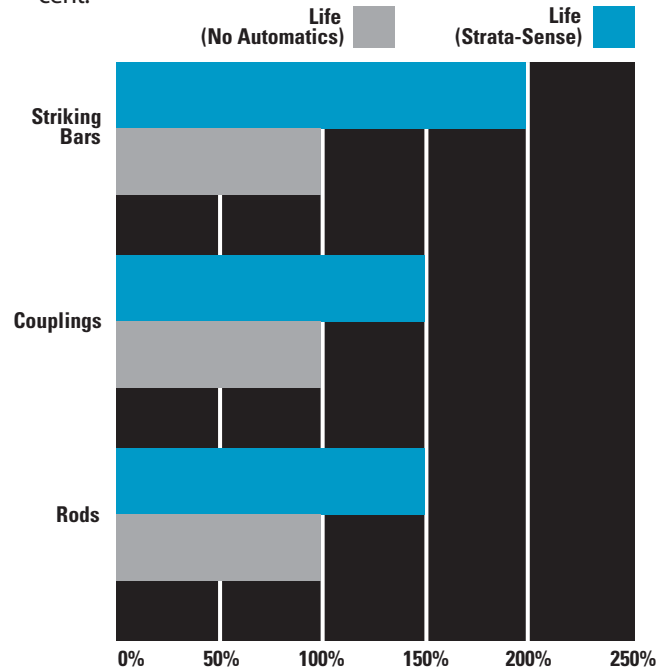
ROTATION PRES-       FEED PRESSURE  
 PERCUSSION PRES-       FEED SPEED

### World-class Drifter Control Technology

Experience powerful drilling with load-sense, progressive-percussion pressure control while the progressive-feed control reduces jamming and senses voids. Automatic reverse percussion, automatic air protection circuit — vital when drilling through clay — and auto-collaring increase productivity.

### Strata-Sense® Drill Automatics

Optimization of drilling speed, hole straightness and trouble avoidance with Strata-Sense® Drill Automatics can increase the life of your drill accessories up to 200 percent.



### High-performance Features

- Function-dedicated pumps provide optimal hydraulic loading
- Thermostatically-controlled fans increase fuel efficiency
- Tier III, electronically-controlled engines
- Start-up features on high-pressure models: unloader valve (reduces engine load that makes cold starts easier) and positive lubrication (reduces premature wear)
- Perimeter access for routine maintenance

### PRO-TECH Advantage

5-year/10,000-hour warranty on all airends when you use genuine Atlas Copco parts, service and fluids.



### Cab Safety, Visibility, Efficiency and Ergonomics

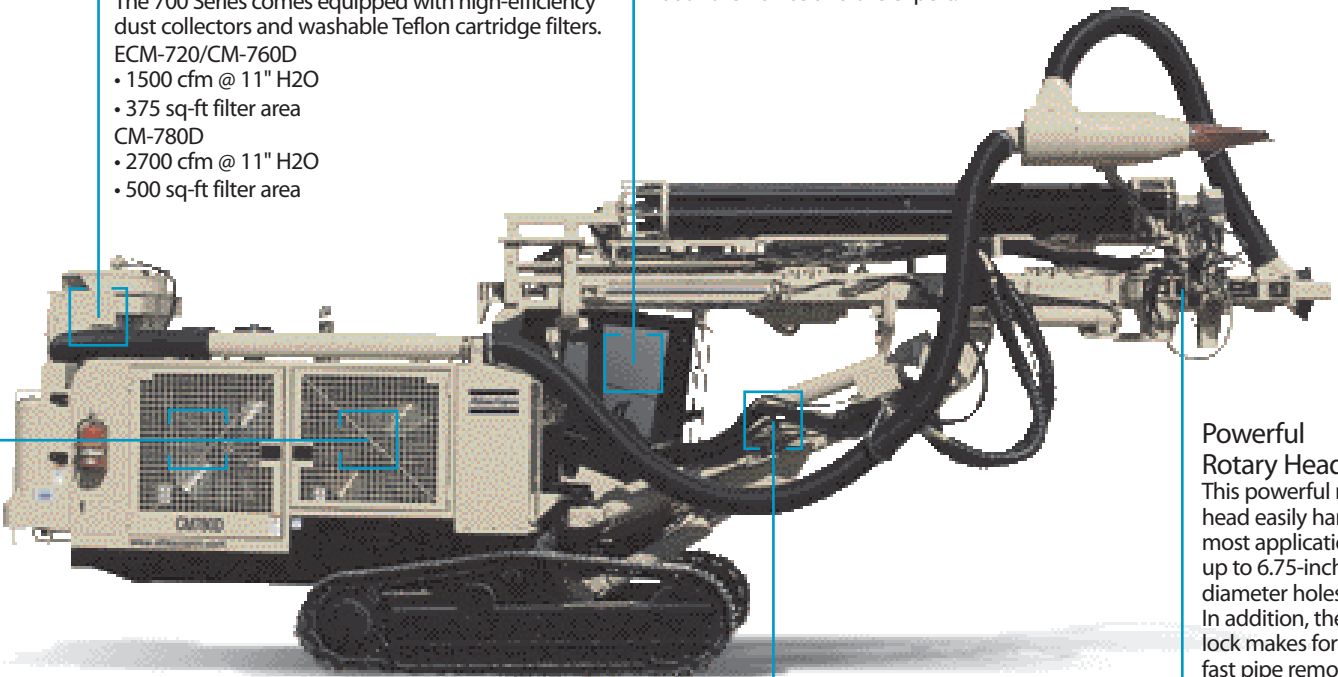
A safe, comfortable cab protects the operator and reduces fatigue, increasing productivity while advanced controls make operations more efficient:

- Shock-mounted, ROPS/FOPS certified cab reduces vibration and noise (maximum 80 dBA) for more operator comfort.
- Tinted, full-front glass and large roof glass give an unobstructed view of the hole and boom during drilling.
- Cab mounted on the main frame, independent of track movement provides operator comfort on uneven terrain.
- Pressurized with external, filtered air with standard heat and AC for optimum operator environment.
- Powerful dust suppression system keeps the air around the drill even cleaner.
- Six-way adjustable, shock-absorbing operator seat provides a relaxed working position.
- Excavator-style joystick for drilling and tramping simplifies operation.
- Full-flow hydraulics boom and guide positioning control is responsive and smooth for quicker set-up between holes.
- Rod changing is simplified with one-lever control.
- Two arm-mounted, hydraulic pilot joystick controls make drilling easy for both the novice and the expert.

### Bigger Dust Collection System

The 700 Series comes equipped with high-efficiency dust collectors and washable Teflon cartridge filters.

- ECM-720/CM-760D
- 1500 cfm @ 11" H2O
  - 375 sq-ft filter area
- CM-780D
- 2700 cfm @ 11" H2O
  - 500 sq-ft filter area



### Powerful Rotary Head

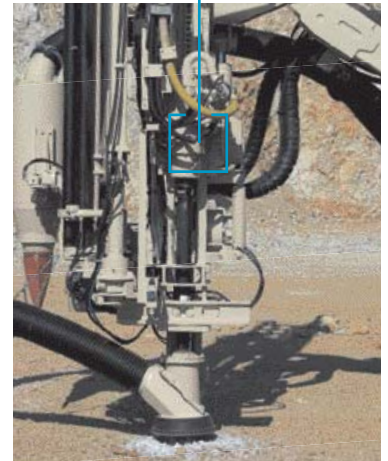
This powerful rotary head easily handles most applications up to 6.75-inch diameter holes. In addition, the rod lock makes for easy, fast pipe removal.

### Variable-speed Fans

- Lower horsepower draw
- Lower fuel consumption
- Lower bystander ambient noise

### Easy Hose Identification

No more time-consuming hose tracking. All hydraulic hoses are tagged on both ends, making identification, maintenance and replacement easy and efficient.





## A Perfect Balance of Productivity and Cost Efficiency

The ECM-720 Crawler Drill delivers overall maximum performance with hole straightness, faster penetration rates, long accessory life and increased profitability. The Atlas Copco Drilling Triangle illustrates the perfect balance needed to achieve the lowest overall cost.

### Fast Overall Penetration

- Powerful HC-200A Drifter
- Shaped Energy Wave
- Reverse Percussion Standard

The trapezoidal piston delivers maximum impact energy to the rock. The Rebound Energy Recovery Valve matches blow energy to the rock hardness, therefore increasing production. The IR Montabert® drifter delivers a powerful punch in a compact package.

### Straighter Holes

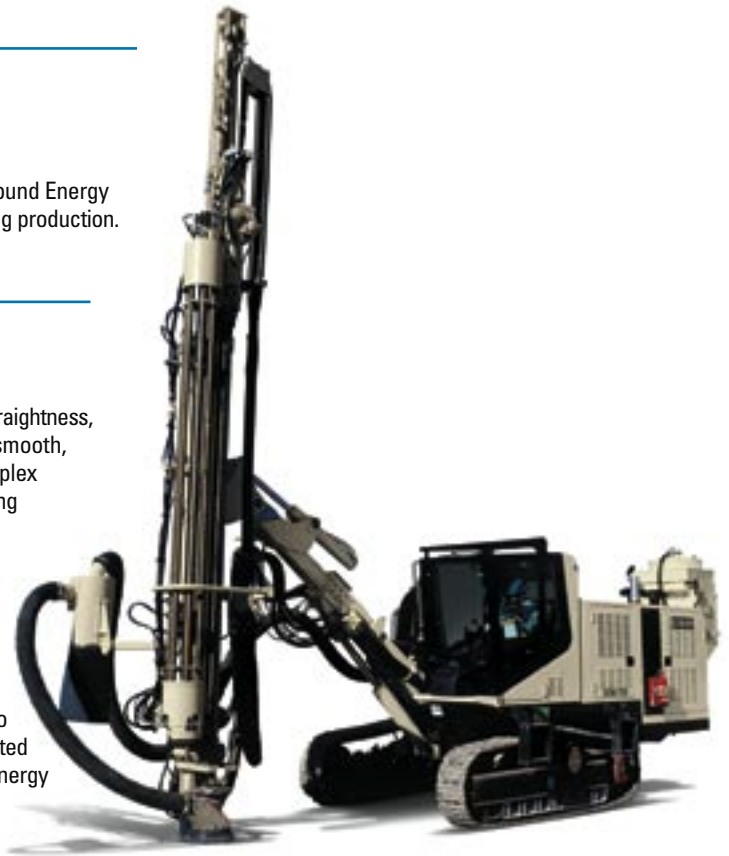
- Strata-Sense® Drill Automatics
- Trouble Avoidance in the Hole

All drilling functions are hydraulically monitored and adjusted to optimize hole straightness, accessory life and total drilling speed. Flow and pressure adjustments are smooth, progressive, instantaneous and automatic. No microprocessors or other complex electronic components are used. A Blow Air Sensing Circuit reduces bit plugging to increase productivity.

### Longer Accessory Life

- Energy Recovery Valve
- Less Cost-Per-Foot

Strata-Sense® Drill Automatics greatly reduce damage on accessories due to hole deviation. The Montabert® Energy Recovery System stores energy reflected from the rock and converts it to additional piston striking force. The rebound energy is not absorbed by the accessories, thereby increasing the accessory life.



The ECM-720 Top Hammer Hydraulic Crawler Drill transports easily from site to site.

# SPECIFICATIONS | ECM-720 Top Hammer Hydraulic Crawler Drill

ENGINE	US (METRIC)
Type	CAT C-11 Tier III emission compliant
Rated Power	385 hp (288 kW)
Operating Speed	1,800 rpm
Fuel Capacity	155 gal (587 L)
Operating Time	12-hour shift without refueling in most applications
<b>COMPRESSOR</b>	
Type	Oil flooded rotary screw
Volume	480 cfm (13.6 m <sup>3</sup> /min)
Pressure	150 psig (10.3 bar)
<b>BOOM &amp; GUIDE</b>	
Drifter Travel	16' 11" (5,156 mm) with hose reel; 19' 3" (5,867 mm) with hose bundle
Max Boom Swing	45° right / 20° left
Max Vertical Boom Movement	50° up / 45° down
Max Guide Swing	20° right / 90° left
Max Guide Dump	135°
Boom Extension	24" (610 mm)
Guide Extension	5' (1,524 mm)
Overall Guide Length	27' 6" (8.4 m)
<b>HC-200A DRIFTER</b>	
Rod Size	T60 mm (T51 mm optional)
Bit Diameter	Optimum 5.5" (139 mm) Size range 4" – 6" (102 mm–152 mm) — 6" (152 mm) soft material
Reverse Percussion	Standard
<b>GENERAL SPECIFICATIONS</b>	
Gradability	30° (60%)
Tramming Speed	2.0 mph (3.2 km/hr)
Ground Clearance	17" (432 mm)
Track Oscillation	± 10°
Rod Changer Capacity	(6)12' (3.66 m) or (6)14' (4.27 m) — 60 mm rod
Shipping Dimensions L x W x H	32' 3" x 8' 2" x 10' 2" (983 x 249 x 310 cm)
Drilling Depth	96' (29 m) with hose reel; 102' (31 m) with hose bundle
Shipping Weight	45,300 lb (20,550 kg)
<b>CAB &amp; CONTROLS</b>	
Safety and Comfort	Certified ROPS/FOPS with air conditioning and heat
Noise Level	80 dBA inside cab
Controls	Pilot hydraulic drilling and tramming Direct hydraulic positioning
<b>HYDRAULICS</b>	
Strata Sense Hydraulic Control System	
Hose Reel System and Separation of Percussive Hoses for Superior Hose Management	
Hydraulic System Test Ports for Easy Trouble Shooting	
Hydraulic Centralizer	

## Dust Control:

- Dust Collector (Washable Dry Filters)
- Pre-skimmer
- Vaposol System — 80 gal Capacity (ASME)
- Retractable Dust Hood
- Optional High Capacity Collector for Large Hole/Soft Material Application

## Atlas Copco Secoroc AB



Atlas Copco Secoroc provides a wide range of rock drilling tools used by the mining and construction industries. The product range consists of:

- Tophammer equipment
- The COPROD system
- Down-the-hole equipment
- Raiseboring equipment
- Rotary drilling equipment

As part of our sales and service operations, Atlas Copco Secoroc also offers training programs for clients to help them capitalize on the benefits of the division's products and services.