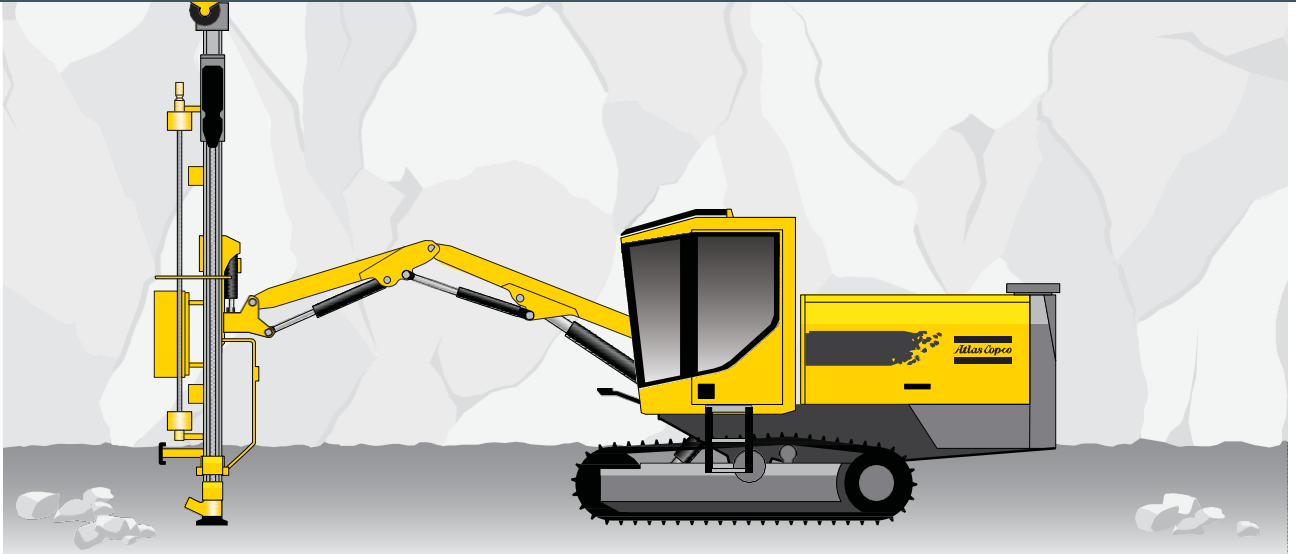


# ROC D5 SURFACE DRILL RIGS

TECHNICAL SPECIFICATION



## A true workhorse for the widest range of applications

- Unique, durable cylinder-operated feed system that makes the best use of the rock drill
- Long reach makes it ideal for use also in slope stabilization
- Supreme productivity thanks to the use of the proven COP-series of rock drills

**ROC D5, D7, D9 and D7LF (Long Feed) are intended for construction sites and aggregate quarries. The main components are:**

- Operator's cabin, ROPS and FOPS approved
- Automatic feed force control system
- Hydraulic Tophammer Rock Drill
- Caterpillar turbo charged diesel engine CAT C7
- screw compressor

Hole range			
ROC D5	R32, T38, T45	35-89 mm	1 3/8" - 3 1/2"
ROC D7 and D7LF	T38, T45, T51	64-115 mm	2 1/2" - 4 1/2"
ROC D9	T45, T51	76-115 mm	3" - 4 1/2"
Hydraulic rod handling system for max hole depth, with 3,6 m (12') extension rods			
ROC D5	R32, T38, T45	28 m	92'
ROC D7	T38, T45, T51	28 m	92'
ROC D9	T45, T51	28 m	92'
Hydraulic rod adding system for max hole depth, with 6,1 m + 4,2 m (20' + 14') extension rods			
ROC D7LF	T38, T45, T51	10 m	33'

# Specifications

## Engine

- Caterpillar turbo charged, diesel engine, CAT C7, Tier III/stage 3
- Power rating at 2200 rpm ..... 168kW 225 HP
  - Fuel consumption, approx ..... 26l/h 6,9 US gal/h

## Feed

- Hydraulic cylinder feed with hose guide and double drill steel support with movable lower guide/dust hood
- Feed extension ..... 1 400 mm 4'7"
  - Feed rate, max ..... 0.92 m/s 184 ft/min
  - Feed force, max ..... 20 kN 4 400 lbf
  - Tractive pull, max ..... 20 kN 4 400 lbf
- ROC D5, D7 and D9
- Total length ..... 7 140 mm 23'5"
  - Travel length ..... 4 240 mm 14'
- ROC D7LF
- Total length ..... 8 240 mm 27'7"
  - Travel length ..... 5 670 mm 18'7"

## Dust collector DCT 110D

- Filter area ..... 11 m<sup>2</sup> 118 sq.ft
- Number of filter elements ..... 11 pcs
- Suction capacity at 500 mm wg ..... 560 l/s 1 200 cfm
- Suction hose diam ..... 127 mm 5"
- Cleaning air pressure, max ..... 7.5 bar 109 psi
- Cleaning air consumption ..... 2-4 l/pulse 0.06 - 0.12 cu.ft/pulse

## Safety cabin

- ROPS and FOPS approved with rubber vibration dampers
- 2 x wipers with washer (front shield and roof)
- Safety glass
- Fully adjustable operator's seat
- Cabin light with dimmer
- Rig inclination indicator
- Rear view mirror
- Fire extinguisher 6 kg (13 lbs) dry chemical ABE class III type
- Outlet socket 12 VDC
- Prepared for radio/speakers

## Air conditioner

- Refrigerant ..... R134a
- Cooling capacity ..... 5,5 kW
- Fan suction capacity ..... 125 l/s 265 cfm

## Compressor

OIS K-27-C106 GD, screw compressor ROC D5

- Working pressure, max ..... 8.5 bar 123 psi
  - FAD, at normal working pressure ..... 85 l/s 180 cfm
- ROC D7 and D7LF
- Working pressure, max ..... 10.5 bar 152 psi
  - FAD, at normal working pressure ..... 105 l/s 223 cfm
  - Alternatively ..... 127 l/s 270 cfm
- ROC D9
- Working pressure, max ..... 10.5 bar 152 psi
  - FAD, at normal working pressure ..... 136 l/s 288 cfm
  - Alternatively ..... 127 l/s 270 cfm

## Hydraulic system

- Anti-jamming
  - Automatic feed force control RPC-F
  - Damper pressure control - impact DPC-I
- Hydraulic oil cooler
- Max ambient temperature ..... 50°C 122°F
- Pumps
- Axial piston pump (1) ..... 150 l/min 39.6 US gal/min
  - Gear pump (2) ..... 80 l/min 21.1 US gal/min
  - Gear pump (3) ..... 40 l/min 10.6 US gal/min
  - ROC D5 gear pump (4) ..... 35 l/min 9.2 US gal/min
  - ROC D7, D9 and D7LF gear pump (4) ..... 40 l/min 10.6 US gal/min
- Return and drainage filters
- Filtration rate ..... 16 µm absolute

## Electrical system

- Voltage ..... 24 V
- Batteries ..... 2 x 12 V, 185 Ah
- Alternator ..... 28 V, 95 Ah
- Work lights, front ..... 4 x 70 W
- Work lights, rear ..... 2 x 70 W
- Work lights, feed ..... 2 x 70 W
- Warning lamp and reverse buzzer

## Volumes

- Hydraulic oil tank ..... 250 l 65 US gal
- Hydraulic system, total ..... 300 l 79 US gal
- Compressor oil ..... 24 l 6.3 US gal
- Diesel engine oil ..... 28 l 7.4 US gal
- Diesel engine, cooling water ..... 31 l 8.2 US gal
- Diesel engine, fuel tank ..... 370 l 98 US gal
- Traction gear ..... 3 l 0.8 US gal
- Lubrication tank (ECL) ..... 10 l 2.6 US gal

## Hydraulic rock drill

Rock drill	Drill rig	Impact power		Hydraulic pressure, max		Impact rate	Torque, max		Weight approx	
COP 1238 ME	ROC D5	12 kW	16.3 HP	230 bar	3 336 psi	40-60 Hz	630 Nm	465 lbf/ft	150 kg	330 lb
COP 1838 LE	ROC D5	16 kW	21.8 HP	200 bar	2 900 psi	60 Hz	630 Nm	465 lbf/ft	170 kg	375 lb
COP 1838 ME	ROC D7 and D7LF	18 kW	24.5 hp	230 bar	3 335 psi	60 Hz	630 Nm	465 lbf/ft	170 kg	375 lb
COP 1838 MEX									225 kg	496 lb
COP 1838/40 HE	ROC D7 and D7LF	18 kW	24.5 hp	230 bar	3 335 psi	42-50 Hz	950 Nm	701 lbf/ft	175 kg	385 lb
COP 1838/40 HEX									230 kg	507 lb
COP 2160	ROC D9	21 kW	28 hp	220 bar	3 190 psi	36 Hz	1 810 Nm	1 335 lbf/ft	187 kg	412 lb
COP 2160 EX									249 kg	549 lb