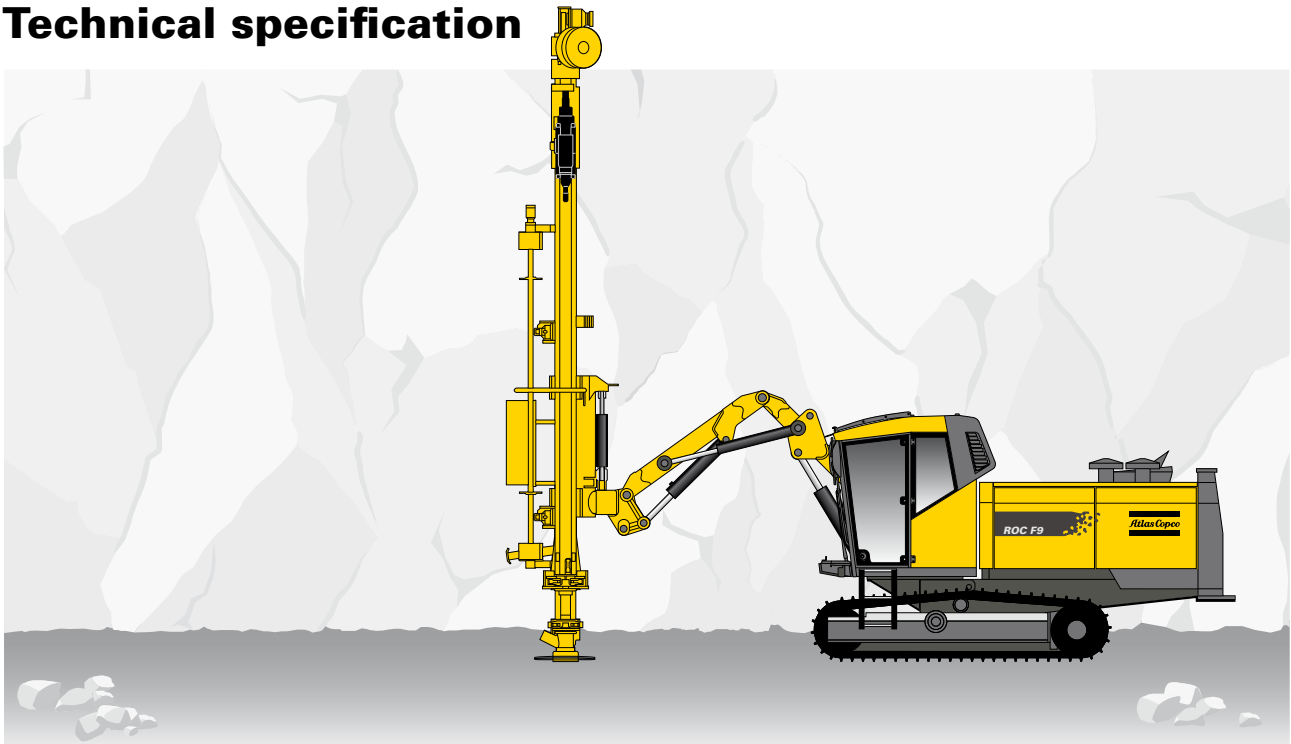


## Atlas Copco Surface drill rigs

# ROC F9

## Technical specification



### Full flexibility for large scale production

- Combined high strength, productivity and hole quality thanks to outstanding drill system efficiency
- Trouble free high productivity operation
- Single pass possibilities for increased production

### ROC F9 is intended for construction sites, quarries for construction and selective mining. The main components are:

- Crawler type two speed undercarriage with track oscillation system
- Caterpillar turbo charged diesel engine CAT C9
- Stepless fuel saving RPM regulation system
- Atlas Copco screw type compressor
- Hydraulic cooling system for 50° C ambient temperature
- Combined warning sound and warning light
- Single section boom or folding boom system
- Hydraulic chain feed system with hose guide
- Hydraulic rock drill COP 2560
- Rock drill lubrication system
- Reduced impact pressure mechanism
- Anti-jamming system
- Automatic feed force control
- Manometer panel for setting of pump circuits
- Toe-hole drilling system
- Carousel type tube handling system
- Hydraulic double drill steel support with movable dust collector hood
- Dust collection system

| Hole range   |          |           |           |
|--|----------|-----------|-----------|
| <b>Recommended hole range</b>  |          |           |           |
| ROC F9   | T45, T51 | 89-127 mm | 3 ½" - 5" |
| <b>Hydraulic rod adding system for max hole depth, with 4,3 m (14') extension rods</b>   |          |           |           |
| ROC F9 Single-section boom   | T45, T51 | 33 m      | 108'      |
| <b>Hydraulic rod handling system for max hole depth, with 3,6 m (12') extension rods</b> |          |           |           |
| ROC F9 Folding boom  | T45, T51 | 28 m      | 92'       |

# Specifications

## Engine

Caterpillar turbo charged, diesel engine, CAT C9, Tier III/stage 3  
 • Power rating at 2000 rpm ..... 224 kW    300 HP

## Feed

Hydraulic chain feed with hose guide and double drill steel support with movable lower guide/dust hood

- Feed extension ..... 1 150 mm    3'9"
- Feed rate, max ..... 0.92 m/s    180 ft/min
- Feed force, max ..... 20 kN    4 500 lbf
- Tractive pull, max ..... 30 kN    6 750 lbf

### ROC F9 *Single-section Boom*

- Total length ..... 8 360 mm    27'5"
- Travel length ..... 5 110 mm    16'9"

### ROC F9 *Folding Boom*

- Total length ..... 7 700 mm    25'3"
- Travel length ..... 4 610 mm    15'2"

## Dust collector DCT 150 F

- Filter area ..... 15 m<sup>2</sup>    164 sq.ft
- Number of filter elements ..... 15 pcs
- Suction capacity at 500 mm wg ..... 350 l/s    741 cfm
- Suction hose diam ..... 127 mm    5"
- Cleaning air pressure, max ..... 8 bar    116 psi
- Cleaning air consumption ..... 2-4 l/pulse    4-8 cfm

## Safety cabin

- ROPS and FOPS approved with rubber vibration dampers
- 2 x wipers with washer
- Clear laminated glass (front and roof windows)
- Clear toughened glass (side and rear windows)
- Fully adjustable operator's seat
- Adjustable foot rest
- Cabin light
- Rig inclination indicator
- Rear view mirror
- Fire extinguisher, 6 kg (13 lbs) dry chemical type ABE class III type
- Outlet socket, 24 V
- Prepared with speakers for CD-radio
- Combined front mounted platform/tool box
- Electric combined engine, hole inclination and hole depth instrument

## Compressor

- Atlas Copco M-01, screw type compressor
- Working pressure, max ..... 12 bar    175 psi
  - FAD, at normal working pressure ..... 213 l/s    450 cfm

## Hydraulic system

- Hydraulic oil cooler
- Max ambient temperature ..... 50°C    122°F
- Pumps
- Axial piston pump (1) ..... 190 l/min    50 US gal/min
  - Gear pump (2) ..... 72 l/min    19 US gal/min
  - Gear pump (3) ..... 38 l/min    10 US gal/min
  - Gear pump (4) ..... 34 l/min    8.9 US gal/min
  - Gear pump (5) ..... 33 l/min    8.6 US gal/min
  - Gear pump (6) ..... 33 l/min    8.6 US gal/min
- Return and drainage filters (2 x 3 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 ..... 300 l    80 US gal
- Hydraulic system, total ..... 380 l    100 US gal
- Compressor oil ..... 40 l    10.6 US gal
- Diesel engine oil ..... 32 l    8.5 US gal
- Diesel engine, cooling water ..... 60 l    16 US gal
- Diesel engine, fuel tank ..... 400 l    106 US gal
- Traction gear ..... 3 l    0.8 US gal
- Lubrication tank (ECL) ..... 5 l    1.3 US gal

## Air conditioner

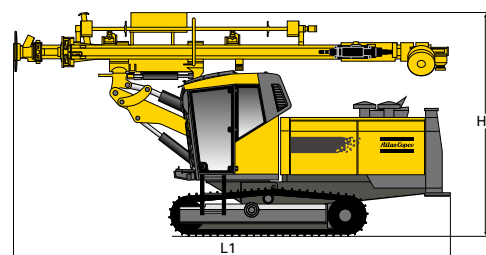
- Refrigerant ..... R134a
- Cooling capacity ..... 5,5 kW
- Fan suction capacity ..... 125 l/s    265 cfm

| Hydraulic rock drill |           |              |         |                         |           |             |             |              |               |        |
|----------------------|-----------|--------------|---------|-------------------------|-----------|-------------|-------------|--------------|---------------|--------|
| Rock drill           | Drill rig | Impact power |         | Hydraulic pressure, max |           | Impact rate | Torque, max |              | Weight approx |        |
| COP 2560             | ROC F9    | 25 kW        | 33.5 HP | 230 bar                 | 3 335 psi | 44 Hz       | 1 810 Nm    | 1 335 lbf/ft | 187 kg        | 412 lb |
| COP 2560EX           |           |              |         |                         |           |             |             |              | 249 kg        | 549 lb |

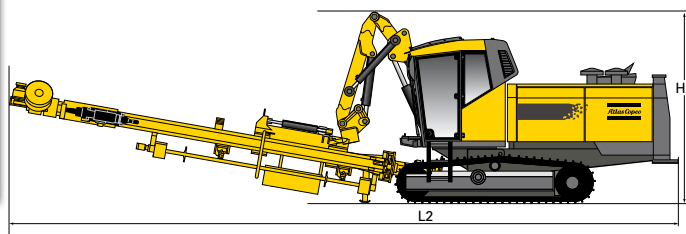
# Transport dimensions

| Hight and length           |             |           |        |
|----------------------------|-------------|-----------|--------|
| <b>Feed dumped 1</b>       |             |           |        |
| ROC F9 Single-section boom | Height (H1) | 3 800 mm  | 12' 6" |
| ROC F9 Single-section boom | Length (L1) | 12 300 mm | 40' 4" |
| ROC F9 Folding boom        | Height (H1) | 3 500 mm  | 11' 6" |
| ROC F9 Folding boom        | Length (L1) | 11 300 mm | 37'    |
| <b>Feed dumped 2</b>       |             |           |        |
| ROC F9 Single-section boom | Height (H2) | 3 200 mm  | 10' 6" |
| ROC F9 Single-section boom | Length (L2) | 12 300 mm | 40' 4" |
| ROC F9 Folding boom        | Height (H2) | 3 200 mm  | 10' 6" |
| ROC F9 Folding boom        | Length (L2) | 13 000 mm | 42'8"  |

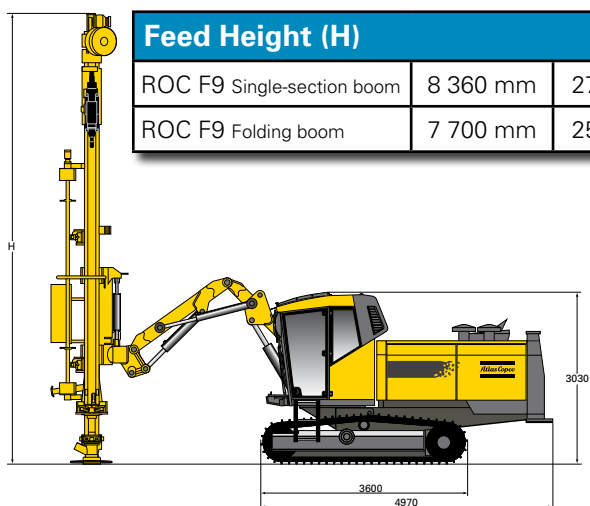
Feed dumped 1



Feed dumped 2

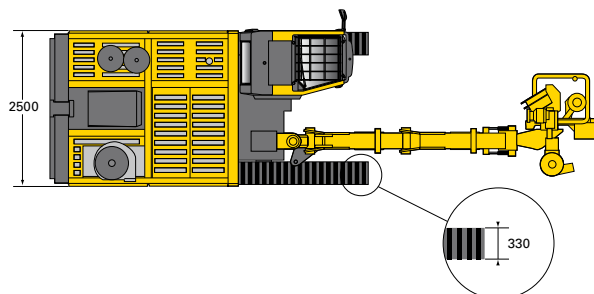


# Dimensions and weight



| Feed Height (H)            |          |        |
|----------------------------|----------|--------|
| ROC F9 Single-section boom | 8 360 mm | 27' 5" |
| ROC F9 Folding boom        | 7 700 mm | 25' 3" |

| Weight   |           |           |
|--|-----------|-----------|
| <i>Standard unit excluding all options and drill steel</i> |           |           |
| ROC F9 Single-section boom                                 | 16 400 kg | 36 150 lb |
| ROC F9 Folding boom  | 16 600 kg | 36 600 lb |



# Selection of optional equipment

**Carrier**

- Track chains with triple grouser pads
- Hydraulic support leg
- Hydraulic winch including wire with towing eye and wire guide, remote controlled
- Heavy duty air intake filters for engine/compressor
- Electric refuelling pump
- Diesel engine pre heater
- Insulated compressor regulation system
- Xenon work lights, 2 pcs on top of cab pointing forward and 2 pcs on top of canopy pointing to the rear

- ProCom satellite based drill rig monitoring system (only in combination with a written service agreement)

**Safety cabin**

- Clear laminated glass (front window and roof)
- Tinted toughened glass (side window and rear)
- Sun shade kit (rear side windows and rear window)
- Wiper for right hand side window
- Cab heating
- Electric heated operator's seat
- Radio/CD

**Feed**

- TAC guide tube guides for drill steel support
  - TAC 76 for 76 mm guide tube
  - TAC 89 for 89 mm guide tube
- Feed foot extension

**Hole measuring systems**

- Laser receiver upgrading kit
- GPS compass aiming device

**Lube oil, lube system and water mist system**

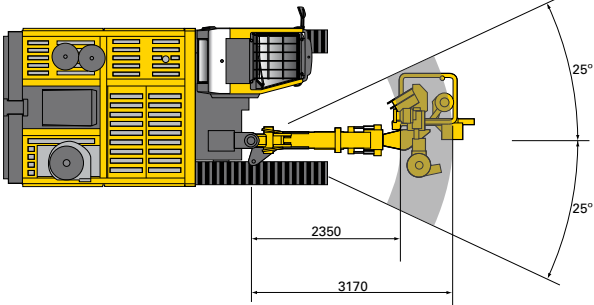
- Central lubrication system, type Lincoln
- Thread greasing device, ECG (with oil)

- Thread greasing device, brushes (with grease)
- Artic hydraulic oil, VG 32
- Tropical hydraulic oil, VG 68
- Biological hydraulic oil, VG 46
- Water mist system with a 225 l pressurized water tank

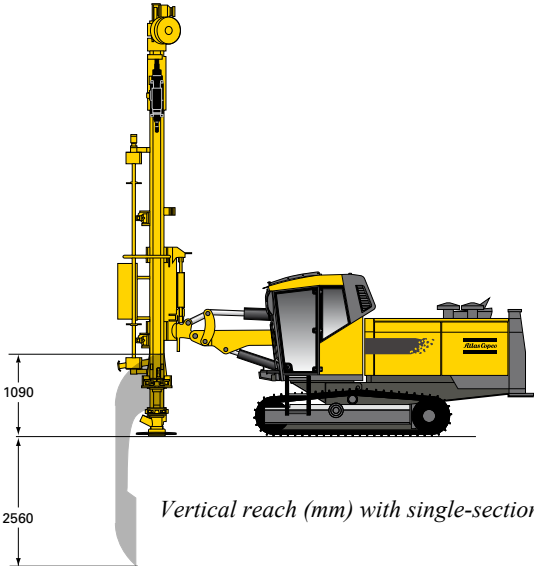
**Delivered equipment, not mounted**

- Gas charging equipment for rock drill
- First 50 hours service kit for compressor
- Conversion kit for T45 drill steel
- Conversion kit for T51 drill steel

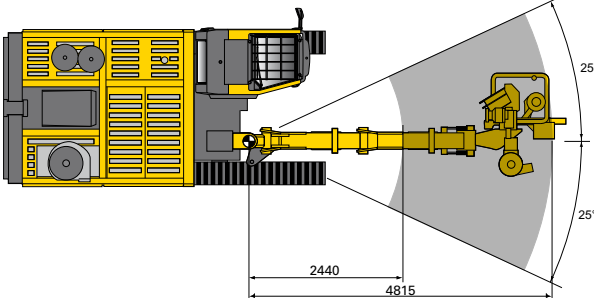
# Coverage areas



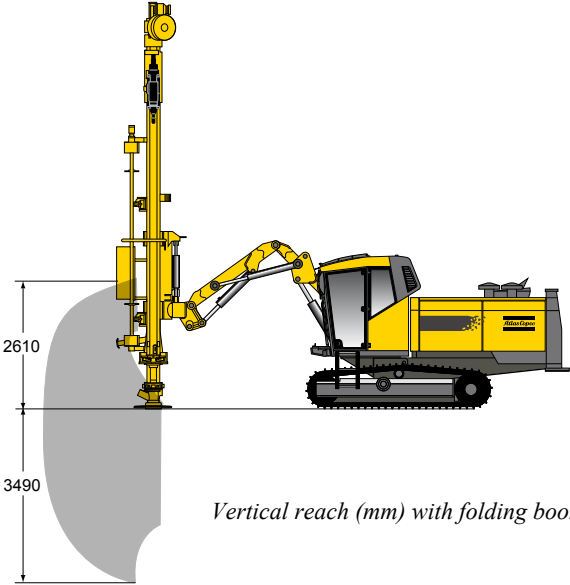
Horizontal reach (mm) with Single-section boom



Vertical reach (mm) with single-section boom

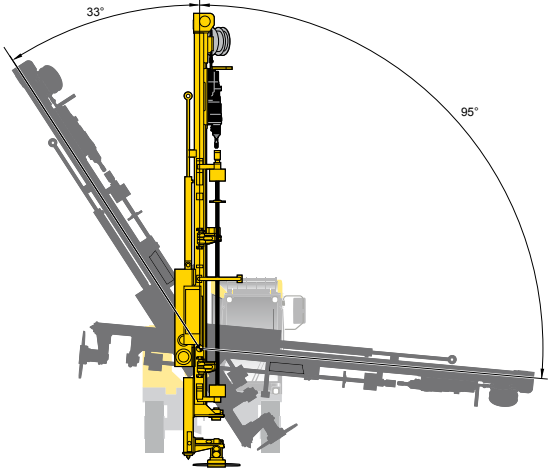


Horizontal reach (mm) with folding boom



Vertical reach (mm) with folding boom

# Feed swing angles



With single-section boom and folding boom - toe-hole drilling kit (standard)



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