

# FlexiROC T40

Surface drill rigs for quarrying and construction

Hole diameter: 64–127 mm (2.5"–5")



# A flexible for rig for all occasions

Offering both efficient and flexible production, the FlexiROC T40 is hard to beat when working in quarries or construction sites.

FlexiROC T40 is a flexible and versatile topammer drill rig, developed and designed for high performance in demanding construction applications. It is also a very efficient alternative for small and medium size quarrying. Even in rough terrain, utilization of the rig remains high, thanks to the long reach of the boom and the low center of gravity. It is equipped with a highly-efficient Epiroc rock drill which boosts output and productivity.



## ⊕ Main benefits

**Optimal use of rock drill and increased tool life** thanks to a cylinder-operated feed system

**Long boom reach** making the rig ideal for demanding construction jobs

**Supreme productivity** thanks to proven COP rock drill series

# Tough and dependable

This rig is built Epiroc solid. Thanks to a high degree of commonality with other Epiroc surface drill rigs and a world-wide service network, spare parts and consumables are there when you need them to ensure continuous uptime and great performance.



## + Flexible and efficient rock drill

COP rock drill has an easily changeable stroke setting. This makes it simple to change the frequency of the rock drill so it operates efficiently in different rock conditions. The rock drill also includes a double dampening system which makes it highly efficient in different kinds of rock. This system also minimizes the wear on the drill string which reduces costs further.



## + Proven design

FlexiROC T40 features a well-proven design which draws on many years of experienced in mining and construction. The FlexiROC T40 has produced sustainable results for a number of years and has many satisfied customers all around the globe.



## + Safety

The ROPS and FOPS-approved cabin provides both comfort and safety. Reliable and fast rod handling makes operation fast and efficient. A smooth and a rigid drill rod support decreases hole deviation for more accurate and higher quality holes. Additionally, maintenance is convenient due to a well thought out and efficient design. A FlexiROC T40 can be relied upon to get the job done — whatever the weather or ground conditions.

# A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity – wherever you are.



# Technical specifications

## Main Components

- Track frames with single grouser pads and cleaning holes .
  - Hydraulic track oscillation and two speed traction.
  - Atlas Copco screw type compressor
  - Operator's cabin, ROPS and FOPS approved.
  - LED work lights.
- Folding boom system.
  - Aluminum profile feed beam
  - Hydraulic cylinder feed system
  - Carousel type rod handling system, 1 + 7 rods.
  - Hydraulic rock drill.
  - Dust collection system.
  - Dust pre separator.
- Double hydraulic drill rod support with movable down support.
  - Service lamp inside canopy.
  - Rock drill oil collecting system.
  - Rubber skirt for DCT.
  - COP Logic.

## Hole range (recommended)

|                                                                                                               | Metric      | US        | Thread        |
|---------------------------------------------------------------------------------------------------------------|-------------|-----------|---------------|
| Hole diameter                                                                                                 | Ø 64–127 mm | Ø 2.5"–5" | T38, T45, T51 |
| Hydraulic rod handling system for max hole length, with 3.6 m (12 ft) ext. rods and 5.5 m (18 ft) starter rod | 30.4 m      | 99.7 ft   | T38, T45, T51 |

## Hydraulic rock drill

| Rock drill   | Hole diameter |             | Impact power  | Hydraulic pressure, max |           | Impact rate, max | Torque, max |              | Weight approx |        |
|--------------|---------------|-------------|---------------|-------------------------|-----------|------------------|-------------|--------------|---------------|--------|
| COP SC25-HF  | Ø 64–89 mm    | Ø 2.5"–3.5" | 25 kW/33.5 hp | 240 bar                 | 3 481 psi | 55/71 Hz         | 1 550 Nm    | 1 143 lbf/ft | 189 kg        | 417 lb |
| COP SC25X-HF |               |             |               |                         |           |                  |             |              | 250 kg        | 551 lb |
| COP SC25-HE  | Ø 76–127 mm   | Ø 3"–5"     | 25 kW/33.5 hp | 200 bar                 | 2 900 psi | 44/55 Hz         | 1 970 Nm    | 1 453 lbf/ft | 195 kg        | 430 lb |
| COP SC25X-HE |               |             |               |                         |           |                  |             |              | 255 kg        | 562 lb |

## Engine

| Caterpillar turbo charged diesel engine — HVO 100-compliant |                                 |
|-------------------------------------------------------------|---------------------------------|
| CAT C71 Tier 4 Final/Stage 5 (EU/US cert.)                  | 168 kW/225 hp<br>(at 2 200 rpm) |
| CAT C71 Tier 3/stage IIIA                                   |                                 |
| CAT C71 China IV (China only)                               |                                 |

## Feed

|                    | Metric   | US         |
|--------------------|----------|------------|
| Feed extension     | 1 400 mm | 55"        |
| 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  |
| Total length       | 7 140 mm | 281"       |
| Travel length      | 4 240 mm | 167"       |

## Volumes

|                              | Metric | US       |
|------------------------------|--------|----------|
| Hydraulic oil tank           | 250 l  | 65.0 gal |
| Hydraulic system, total      | 300 l  | 79.0 gal |
| Compressor oil               | 24 l   | 6.3 gal  |
| Diesel engine oil            | 28 l   | 7.4 gal  |
| Diesel engine, cooling water | 35 l   | 9.2 gal  |
| Diesel engine, fuel tank     | 370 l  | 98.0 gal |
| Traction gear                | 3 l    | 0.8 gal  |
| Lubrication tank (ECL)       | 10 l   | 2.6 gal  |

## Sound and vibration\*

|                                                                      |       |                        |       |
|----------------------------------------------------------------------|-------|------------------------|-------|
| Cabin: A-weighted Sound Pressure Level, LpA                          |       | 77 dB                  |       |
| Cabin: Weighted whole body vibration level, a <sub>w</sub>           |       | < 0.5 m/s <sup>2</sup> |       |
| A-weighted Sound Power Level, LwA                                    |       | 124 dB                 |       |
| A-weighted sound pressure level, LpA, calculated (distance from rig) |       |                        |       |
| 10 m                                                                 | 96 dB | 160 m                  | 72 dB |
| 20 m                                                                 | 90 dB | 320 m                  | 66 dB |
| 40 m                                                                 | 84 dB | 640 m                  | 60 dB |
| 80 m                                                                 | 78 dB | 1280 m                 | 54 dB |

\* The declared noise emission values should be combined with a measurement uncertainty of KpA-6 dB. The sum of declared measured value and the uncertainty value represent an upper limit of the range, in which measured values are likely to be included. The values were determined in accordance with the standards ISO 3744:2010 (for sound power level estimation), ISO 11203:1995 (for sound pressure calculation at different distances from the rig), ISO 11201:2010 (for operator cabin sound pressure level) and ISO 2631-1 (for whole body vibration).

## Compressor

| Atlas Copco C106 screw compressor | Metric   | US      |
|-----------------------------------|----------|---------|
| Working pressure, max             | 10.5 bar | 152 psi |
| FAD, at normal working pressure   | 149 L/s  | 316 cfm |

## 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 |                  |

## Dust collector DCT 110

|                               | Metric      | US                    |
|-------------------------------|-------------|-----------------------|
| Filter area                   | 11 m²       | 118 sq.ft             |
| 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 |
| Number of filter elements     | 11 pcs      |                       |

## Hydraulic system

|                                               |                |
|-----------------------------------------------|----------------|
| Return and drainage filters (filtration rate) | 16 µm absolute |
| Hydraulic oil cooler max ambient temperature  | 50°C (122°F)   |

Technical specifications

Hydraulic cylinder feed system with rigid aluminum feed beam for precise feed force and long drill rod life.

The rig is fitted with rock drill which features a unique double dampening system that improves productivity and drilling economy.

Hydraulic double drill rod support with movable lower support helps keep holes straight and speeds up collaring.

The cabin is ROPS and FOPS-approved and has a protective plate under the cabin. A reinforced front window is also available to further enhance safety.

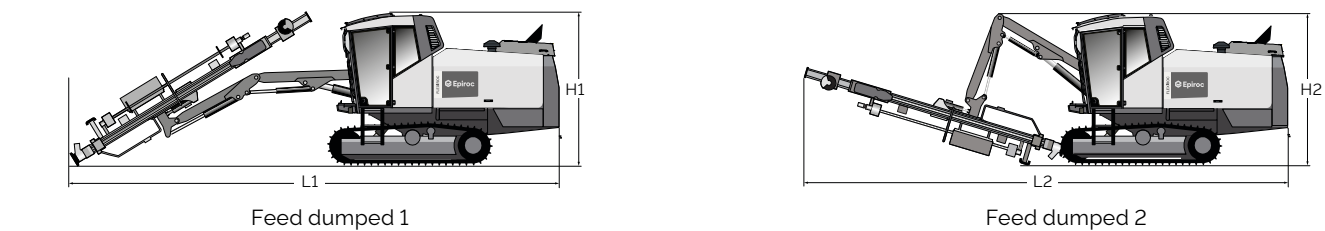




Discover more about the FlexiROC T40.

Safety cabin

- ROPS and FOPS approved with rubber vibration dampers
  - 2 x wipers with washer
  - Clear laminated glass (10 mm front and roof windows)
  - Fully adjustable operator's seat
  - 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
  - Clear laminated glass (8 mm side window)
  - Prepared with speakers for CD-radio or DVD radio
- Clear toughened glass (8 mm rear window)
  - Combined front mounted platform/tool box
  - Electrical heated chair
  - Cab heating



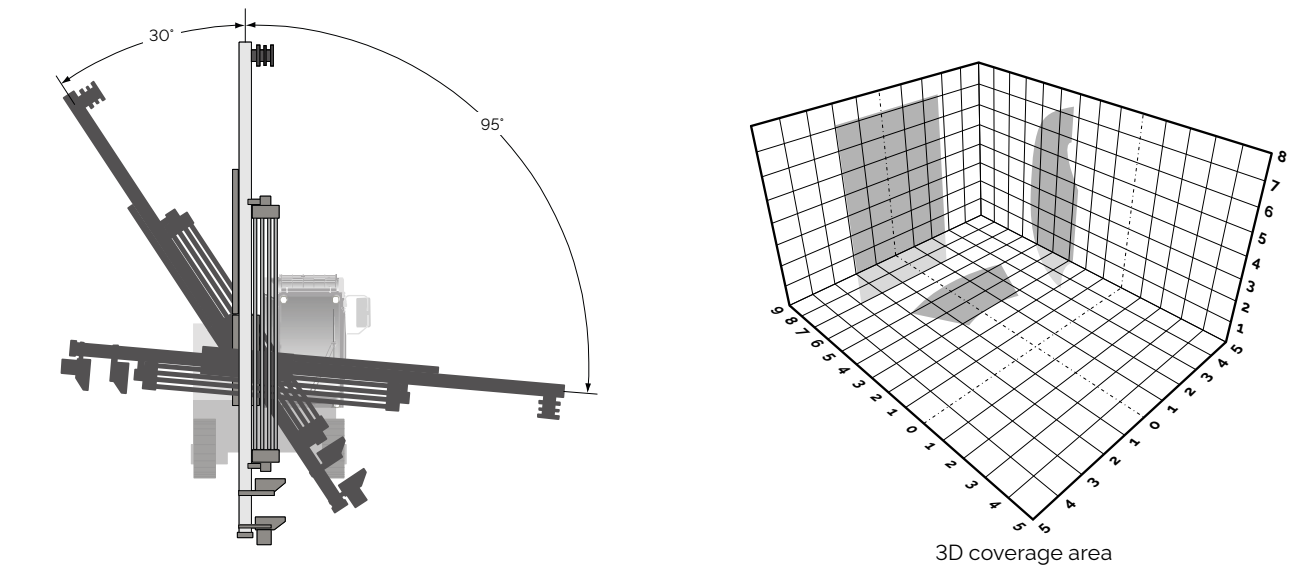
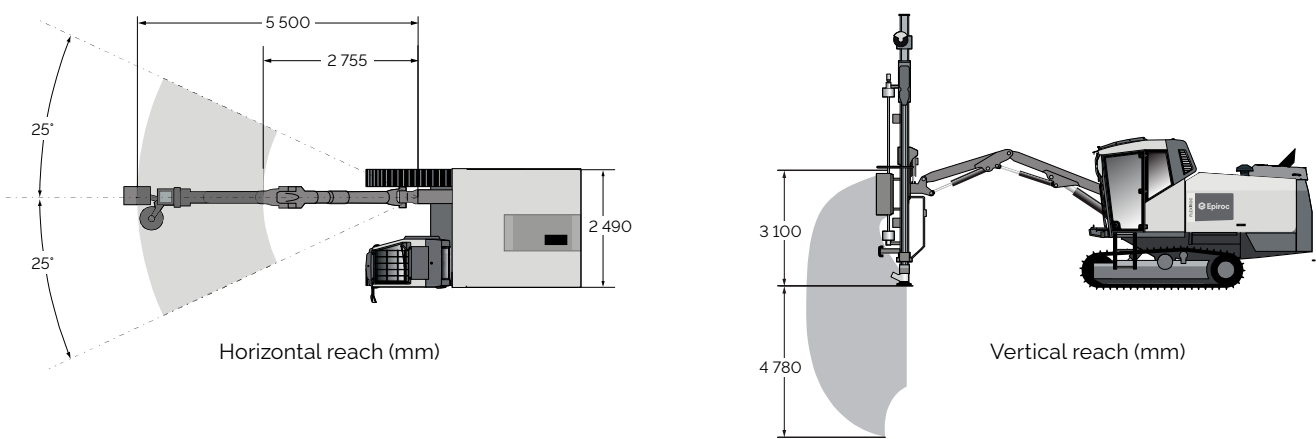
Transport dimensions

| Feed dumped 1 | Metric    | US     |
|---------------|-----------|--------|
| Height (H1)   | 3 200 mm  | 126.0" |
| Length (L1)   | 11 600 mm | 456.7" |
| Feed dumped 2 | Metric    | US     |
| Height (H2)   | 3 500 mm  | 133.9" |
| Length (L2)   | 11 000 mm | 433.1" |

Weight

| Standard unit excluding all options and drill rod | Metric    | US        |
|---------------------------------------------------|-----------|-----------|
| Tier 3 engine                                     | 15 500 kg | 34 170 lb |
| Tier 4 Final engine                               | 15 300 kg | 33 730 lb |

Technical specifications



Selection of options

- Cabin**

  - Window panes: Laminated 24 mm clear front, 10 mm roof and 8 mm tinted side – toughened 8 mm rear\*
  - Tinted 10 mm roof window\*
  - Window wiper, right hand window
  - Sun shade kit (rear side, rear windows and roof)
  - Reverse camera with cab mounted display\*
  - Bluetooth audio system
  - Camera for support leg\*
- Carrier**

  - Hydraulic support leg
  - Hydraulic winch including wire with towing eye and wire guides\*
  - Diesel-driven engine heater
  - Electric fuel filling system
  - Tow hook\*
  - Track chains with triple grouser pads\*
  - Rubber disc for DCT
  - PAR oil M & S
- Feed**

  - Protective guard, according to EN16228 \*
  - Bigger Dowel with big plate to avoid sinking in soft ground\*
  - TDS guide tube guides for drill rod support\*:
    - TDS 56 for 56 mm guide tube
    - TDS 64 for 64 mm guide tube
    - TDS 76 for 76 mm guide tube
    - TDS 87 for 87 mm guide tube
  - Support bracket RHS carousel\*
  - Thread greasing device ECG (with oil)\*
  - Thread greasing device, brush type (with grease)
  - Sleeve retainer
- Water system**

  - Complete water mist system 120 l tank
- Hole and inclination systems**

  - Hole inclination/depth instrument HQS11
  - Laser plane receiver for hole depth HQS12
  - GPS compass aiming unit\*
  - Mechanical hole inclination instrument ROC angle
- Parts and Services**

  - COP Care
  - ROC Care
- Optional equipment not mounted**

  - Gas charging equipment for rock drill\*
  - First 50 hours service kit for compressor
  - Lubrication system
  - Conversion kit T45, T51

\*Not available in China



## United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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