SmartROC T40

Tophammer surface drill rigs for quarrying and construction

Hole diameter: 64–127 mm (2.5"–5")

Epiroc



A master of fuel efficiency

When it comes to fuel efficiency, the SmartROC T40 uses less diesel than any other rig in its class. It's a great performer — even under the toughest drilling conditions.

This rig is built with the operator in mind. It features an ergonomic user interface to make drilling safer, faster and more effective. A quiet, light and spacious cabin provides the operator with an excellent view over the work area. It includes a climate control system which helps to maintain a comfortable temperature. An air filter system ensures that a clean and pleasant working environment is maintained over a long shift - regardless of the weather or work site. This not only makes for a happy operator, but also helps keep the cabin dust-free. Many drill settings and performance adjustments can be made via the intelligent control system so the operator can stay safe, comfortable, and out of harm's way. The SmartROC T40 is easy to operate and highly productive. It delivers the lowest cost per cubic meter of any rig in this hole range. The Rig Control System controls the engine RPM and compressor load automatically to deliver exactly the amount of power demanded by current conditions. The entire architecture of the SmartROC T40 is designed to be efficient. Vital components are strategically placed to make servicing easier. Additionally, the length of hydraulic hoses is kept to a minimum which reduces the amount of hydraulic oil the rig requires for operation.

⊕ Main benefits

Class-leading fuel efficiency — even lower fuel consumption reduces costs and environmental impact

Boosted productivity thanks to a range of smart features and options

Enhanced automation helps to achieve new levels in consistency and output

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6th Sense

Smart. Safe. Seamless.

SmartROC T40 is a 6th Sense product.

6th Sense is the Epiroc way of optimizing your value chain through automation, system integration and information management.



Earn more per cubic meter

A SmartROC can be equipped with the optional hole navigation system (HNS) from Epiroc. This enables drill pattern navigation via satellite receivers. HNS helps ensure that holes are in the right place, at the correct inclination, and drilled to the required hole length as defined in the drill plan. The result is a decrease in drill and blast costs per cubic meter produced.



+ Further improved fuel efficiency

The entire system is designed to minimize energy loss. The operator can adjust precisely the flushing air volume and the dust collector fan speed according to need directly from the cabin. This ensures that both deliver only what is necessary for the best performance. Engine RPM and compressor load are self-adjusting according to demand. Three variable hydraulic pumps help lower engine speed during none-drilling time and tramming. Additionally, an automatic cooler-fan control is fitted as standard.



+ Operator in focus

For technology to be truly of value, it must be easy to use. This rig integrates advanced technology seamlessly, offering ease-of-use and safety. The climate controlled cabin is FOPs and ROPs-approved and includes a RABS-approved front screen option. It provides a safe, quiet and dust-free work environment. The operator has full control over operations via two multifunction joysticks and a touchscreen display. The ergonomically designed controls and seat ensure a high level of comfort for an entire shift.



+ Constantly evolving — even more productive

Maintenance tasks on the SmartROC T40 are easy to perform thanks to logically positioned service points and large hatches. The rig control system assists with problem searching in order to keep downtime to a minimum. The feed system now features a large pulley wheel which reduces wear on the cable. Additionally, 7+1 or 9+1 rod handling systems are available. The 9+1 system makes the rig even more compact for easier loading and transport. The feed-sensors have been repositioned to keep them out of harm's way and ensure functionality.

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
- FOPS and ROPS-approved operator cabin
- LED work lights.
- Folding boom system.
- Aluminum profile feed beam.
- Hydraulic cylinder feed system
- Carousel type rod handling system, 1+7 or 9+1 rods
- Hydraulic rock drill
- Dust collector (DCT)
- Dust pre separator
- Double hose drum
- Adjustable flushing air system
- Air flow switch
- Automatic cooler fan control
- Adjustable dust collector fan speed
- Double hydraulic drill rod support with movable down support
- Service lamp inside canopy
- Rock drill oil collecting system
- Rubber skirt for Dust collector (DCT)
- COP Logic

Hole range (recommended)

	Threads	Metric	US
		Ø 64–115 mm	2.5"–4.5"
Rods and hole length			
9+1 RHS carousel, length = 3 660 mm, starter rod length max 4 220 mm	T45/T51	36 m	118.1 ft
9+1 RHS carousel, length = 3 660 mm, starter rod length max 5 490 mm	T45	37 m	121.4 ft
7+1 RHS carousel, length = 4 220, starter rod length max 5 490 mm	T45	30.1 m	98.8 ft
6+1 RHS carousel, length = 4 220, starter rod length max 5 490 mm	T51	30.1 m	98.8 ft
Noise reduction kit option, 7+1 RHS, carousel, length = 3 660 mm, starter rod length max 4 220 mm (T51 6+1)	T45/T51	28.5 m	93.5 ft

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	
CAT C7.1 Tier 4 Final/Stage 5 (EU/US cert.)	168 kW/225 hp (at 2 200 rpm)
CAT C7.1 Tier 3/stage IIIA	

Feed

Hydraulic cylinder feed with hose guide and double drill rod support with movable lower guide/dust hood	Metric	US
Extension	1 400 mm	55.1"
Rate, max	0.92 m/s	184 ft/min
Force, max	20 kN	4 400 lbf
Tractive pull, max	20 kN	4 400 lbf
Total length	8 230 mm	27 ft
Total length, shorter feed	7 350 mm	24 ft
Travel length	4 982 mm	15.4 ft
Travel length, shorter feed	4 090 mm	13.4 ft

Carrier

	Metric	US
Tramming speed	3.1 km/h	1.5 mph
Track oscillation	±12°	±12°
Ground clearance	455 mm	17.9"

Compressor

Atlas Copco OIS K-36-C111 GD, screw compressor		
Working pressure, max	10.5 bar	152 psi
FAD, at normal working pressure	153 l/s	324 cfm

Volumes

	Metric	US
Hydraulic oil tank	100 l	26.4 gal
Hydraulic system, total	160 l	42.3 gal
Compressor oil	22 l	5.8 gal
Diesel engine oil	16 l	4.2 gal
Diesel engine, cooling water	35 l Tier 3 43 l Tier 4 Final/Stage 5	9.2 gal 11.4 gal
Diesel engine fuel tank	370 l	97.7 gal
Traction gear	3 l	0.8 gal
Lubrication tank (ECL)	10 l	2.6 gal
DEF fluid tank	24 l Tier 4 Final/Stage 5	6.3 gal

Hydraulic system

Pumps at 1800 rpm	Metric	US
Axial piston pump (1)	171 l/min	45.1 gal/min
Axial piston pump (2)	75 l/min	19.8 gal/min
Axial piston pump (3)	50 l/min	13.2 gal/min
Gear pump (4)	30 l/min	7.9 gal/min
Gear pump (5)	40 l/min	10.6 gal/min
Hydraulic oil cooler max ambient temp.	50°C	122°F
Return & drainage filters (filtration rate)	10 µm absolute	
Anti-jamming, Feed speed control, Proportional control – feed RPCF. Proportional control impact DPCI		

Electrical system

Voltage	24 V
Batteries	2 x 12 V, 180 Ah
Alternator	Tier 3: 24 V, 95 Ah Tier 4 Final/Stage 5: 24 V, 95 Ah
Front LED work lights	8 x 56 W 4 200 lumen
Rear LED work lights	2 x 56 W 4 200 lumen
Feed LED work lights	2 x 56 W 4 200 lumen
Warning lamp, reverse buzzer	

Dust collector DCT 110

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

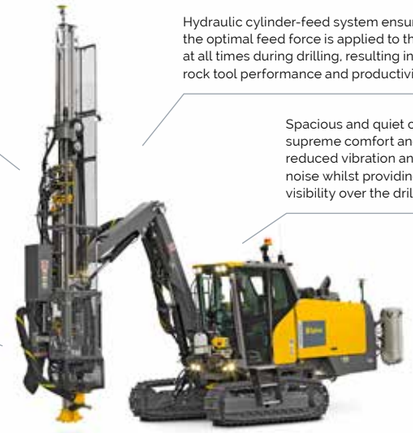
Sound and vibration*

Cabin A-weighted Sound Pressure Level, LpA	69 +/- 3dB
Cabin vibration level during 8h average (m/s2) Cabin vibration level during 8h average (ft/s2)	0.1 +/- 0.1 0.33 +/- 0.33
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).*

Technical specifications



Double hose drums with a slot for each hose extends the life of the hoses and does not require greasing.

Hydraulic cylinder-feed system ensures that the optimal feed force is applied to the drill bit at all times during drilling, resulting in improved rock tool performance and productivity.

Spacious and quiet cab offers supreme comfort and safety, reduced vibration and low noise whilst providing excellent visibility over the drill area.

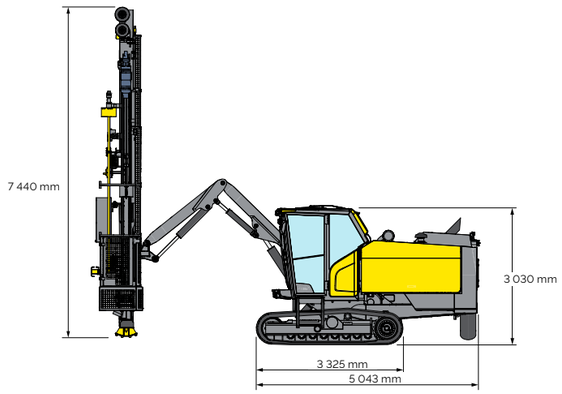
Hydraulic double drill rod support with movable lower support helps achieve straight holes and fast collaring.

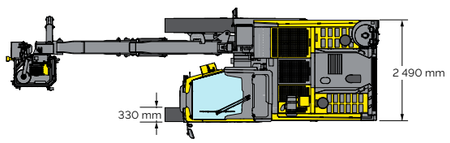
LED lights offer better illumination and are more resistant to vibration damage.

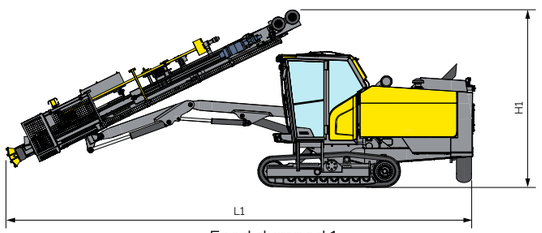
Discover more about the SmartROC T40.

Cabin

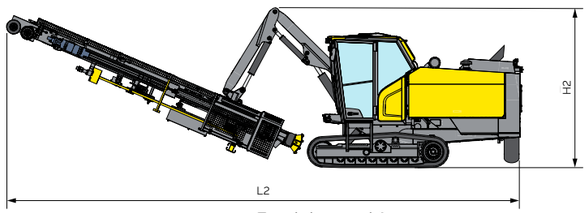
- Climate control system
- ROPS and FOPS-approved with rubber vibration dampers
- 3 x wipers (front window roof window, right window)
- Fully adjustable operator seat
- Cabin light
- Rig inclination indicator
- Rear view mirror
- Fire extinguisher, 6 kg (13 lbs) dry chemical type ABE class III type
- Outlet socket, 24 V
- USB charging sockets
- Combined front mounted platform/tool box
- Electric combined engine inclination & hole length instrument in main computer display
- 4 liter (1 US gal) washer fluid tank







Feed dumped 1



Feed dumped 2

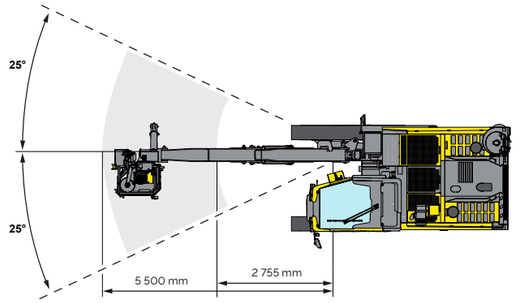
Transport dimensions

Feed dumped 1	Metric	US
Height (H1) (*to top of antenna mount)	3 300 mm	130*
Length (L1)	12 500 mm	492*
Feed dumped 2		
Height (H2)	3 500 mm	138*
Length (L2)	12 800 mm	504*

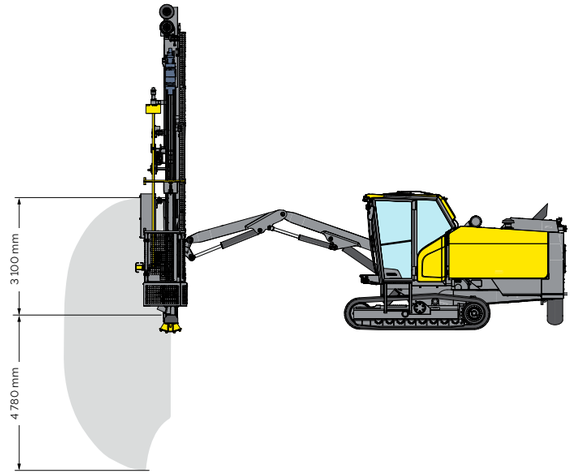
Weight

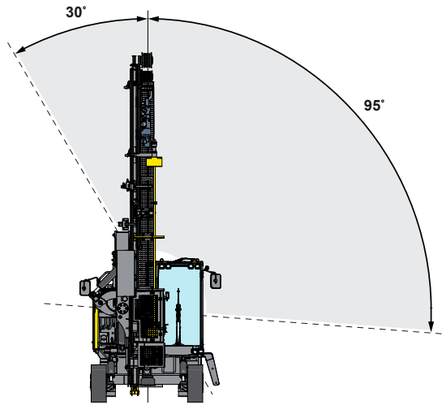
Standard unit excluding all options and drill rod	Metric	US
Tier 3 engine	17 800 kg	39 242 lb
Tier 4 Final/Stage 5 engine	18 000 kg	39 683 lb

Technical specifications

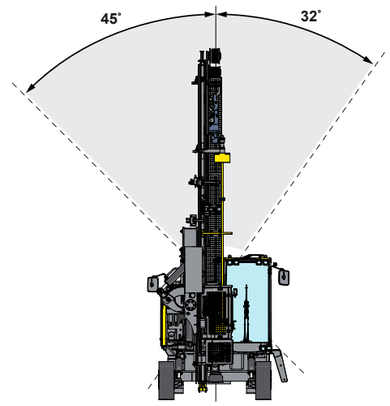


Horizontal reach (mm)





Feed swing angles with the optional toe-hole kit



Feed swing angles without the optional toe-hole kit

Selection of options

Cabin
- Laminated tinted side windows
- Clear or tinted heated side and roof windows
- RABS-approved heated front window
- Electrically heated and/or ventilated seat
- Bluetooth radio/audio system
- Flashing beacon light
- Mug holder
- Mobile phone holder/charger
- 2 or 3-point safety belt
- Electrically-operated heated rearview mirrors
- Sunblinds
- RH4 bit grinder
- HEPA cabin air filter system

Carrier
- Hydraulic support leg
- Hydraulic winch including wire with towing eye and wire guides
- Electric fuel filling system
- Tow hook
- Track chains with triple grouser pads
- LED side lights (pointing backwards towards the tracks)
- Rubber disc for DCT
- PAR Oil M & S
- Central lubrication system
- Air Anti Freezing System
- Tool box left rear side
- Extra air outlet on front of the carrier
- Service lights mounted inside canopy
- Built-in pressure washer
- Diesel driven engine pre-heater
- Compression regulation heating kit
- Reversing camera

Feed
- Protective guard, according to EN16228
- Noise Reduction Kit
- Bigger dowel with big plate to avoid sinking in soft ground
- TDS guide tube guides for drill rod support:
  – 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 devise ECG (with oil)
- Thread greasing device, brush type (with grease)
- 9+1 Rod Handling System
- Shorter feed to aid transport
- Sleeve retainer
- TAC bushing kits
- Auto positioning system
- GPS positioning system (feed and boom

Hole and inclination systems
- Laser plane receiver for hole length
- GPS compass aiming unit
- Automatic feed alignment

Water system
- Complete water mist system with 150 l tank

Parts and services
- COP Care
- ROC Care

Hole Navigation System (HNS)
- Trimble or Leica receivers radio modem 450 or 900 Mhz GSM modem sensors and ROC Manager software

Automation & software
- Measure While Drilling (MWD)
- ROC Manager
- Interface for 3 part HNS system

Optional equipment not mounted
- Gas charging equipment for rock drill
- First 50 hours service kit for compressor
- Conversion kit T38, T45, T51
- RCS service tool-box
- Electrical tool kit
- Extractor for tophammer rock drill
- Remote control unit

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