







## 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.



#### + 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 airconditioned cabin is FOPS and ROPS-approved to protect the operator and is a pleasent environment to work in. The operator has full control over an efficient drilling cycle via two multifunction, joysticks and an icon-based instrument panel. The ergonomically designed controls together with supporting armrests help to reduce the strain on arms and wrists.



#### + Improved serviceability

Compared to similar rigs on the market, the SmartROC T35 has 50% fewer hoses and 70% fewer couplings which reduces the risk of leakage. As a result, it only requires a hydraulic tank of 100 liters. The small hydraulic oil tank and the position of the hydraulic valves and electric modules creates more space for easier access and serviceability. The service interval of the COP rock drills has been extended to 800 percussion hours with no sacrifice in performance, which means more time to focus on drilling.

# 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 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
	T38, T45, T51	Ø 64-115 mm	2.5"-4,5"
Rods and hole length			
$Length\ with\ starter\ rod\ 4,2\ m\ (14')\ with\ 3,6\ m\ (12'\ )\ extension\ rods\ (Standard),\ Noise\ Reduction\ Kit$	T38, T45, T51	28 m	91.9'
Length with starter rod 5,5 m (18') with 4,2 m (14') extension rods	T38, T45	33.5 m	109.9'
Length with starter rod 5,5 m (18') with 4,2 m (14') extension rods	T51	29.3 m	96.1'

#### Hydraulic rock drill

Rock drill	Hole diameter		Impact power	Hydraulic p	ressure, max	Impact rate, max	Torque, max		Weight app	rox
COP SC19	Ø 64-115 mm	Ø 2.5°-4.5°	19 kW/25.5 hp	230 bar	3 336 psi	42/50 Hz	1970 Nm	1 453 lbf/ft	188 kg	384 lb
COP SC19X	Ø 04-115 IIIIII	W 2.5 -4.5	19 KW/25.5 Hp	230 bdi	3 330 psi	42/30 HZ	19/0 NIII	1453 (01/1)	250 kg	551 lb
COP SC25-HF	Ø 64–89 mm Ø 2.5°–3.5°	0.2 E' 2 E' 2 E IAV//22 E ha	25 kW/33.5 hp 240 bar 3 481 psi 55/71 Hz	33.5 hp 240 bar 3 481 psi	2.401 mai	2 401 mai	1.550 No.	1 143 lbf/ft	189 kg	417 lb
COP SC25X-HF	Ø 64-89 mm	W 2.5 -3.5			KW/33.5 np 240 bar 3 481	3 481 psi 55/71 Hz	55//1HZ 1550 Nm	1550 Nm	1 143 lDT/TL	250 kg

#### **Engine**

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

tlas Copco OIS K-36-C111 GD, screw compressor		
/orking pressure, max	10.5 bar	152 psi
AD, at normal working pressure	127 l/s	270 cfm

#### Feed

Hydraulic cylinder feed with hose guide and double drill rod support with movable lower guide/dust hood	Metric	US
Extension	1400 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	7 440 mm	292.9°
Travel length	4 240 mm	166.9"

#### **Electrical system**

Compressor

Voltage	24 V
Batteries	2 x 12 V, 185 Ah
Alternator (Tier 3)	28 V, 80 Ah
Alternator (Tier 4 Final)	28 V, 105 Ah
Work lights LED type, front	4 x 3 500 lumen
Work lights LED type, rear	2 x 3 500 lumen
Work lights LED type, feed	2 x 5 300 lumen
Warning lamp and reverse buzzer	'

#### 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	43 l	11.4 gal
Diesel engine fuel tank	370 l	97.7 gal
Traction gear	31	0.8 gal
Lubrication tank (ECL)	10 l	2.6 gal
DEF fluid tank (Tier 4 Final only)	24 l	6.3 gal

### Hydraulic system

Pumps at 1800 rpm	Metric	US	
Axial piston pump (1)	145 l/min	38.3 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 Proportional control impact DPCI	l – feed RPCF.		

#### **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	1200 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

#### Carrier

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

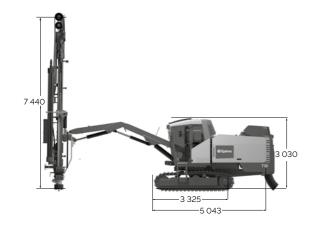
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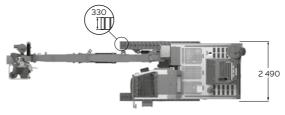


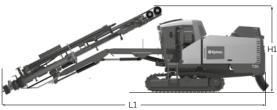
#### Cabin

- Air condition
- · ROPS and FOPS-approved with rubber vibration dampers
- 2 x wipers with washer (front window and roof window)
- · Clear laminated glass
- (10 mm front and roof windows) · Clear laminated glass (8 mm side window)
- · Clear toughened glass
- (8mm rear window) • 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

- Cab heating
- · Prepared with speakers for CD-radio or DVD radio
- Combined front mounted platform/tool box
- · Electric combined engine inclination & hole length instrument in main computer display
- · Electrically heated seat





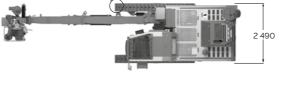


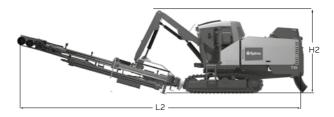


#### Transport dimensions

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Transport annensions		
Feed dumped 1	Metric	US
Height (H1)	3 300 mm	129.9"
Length (L1)	11 600 mm	456.7"
Feed dumped 2		
Height (H2)	3 400 mm	133.9"
Length (L2)	11 000 mm	433.1"

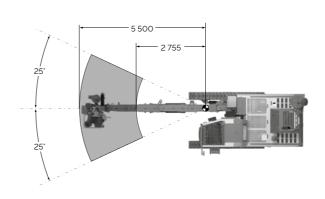




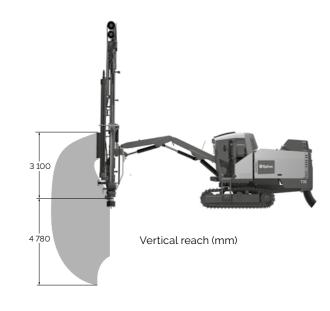
Feed dumped 2

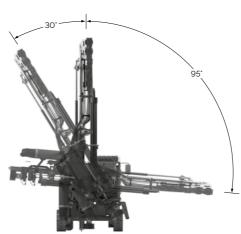
#### Weight

Standard unit excluding all options and drill rod	Metric	US
Tier 3 engine	15 100 kg	33 290 lb
Tier 4 Final engine	15 300 kg	33 730 lb

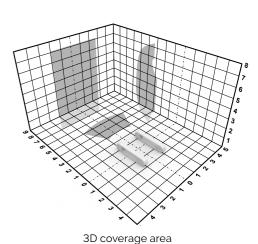


Horizontal reach (mm)





Feed with toe-hole kit



**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 on right hand window
- · Sun shade kit (rear side, rear windows and roof)
- · Reverse camera with cab mounted display
- · Radio with CD player
- · 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
- LED side lights (points 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

- 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)

#### Hole and inclination systems

- · Laser plane receiver for hole length
- · GPS compass aiming unit
- Automatic feed alignment

#### Water system

Complete water mist system 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
- Lubrication system
- · Conversion kit T38, T45, T51
- · Measure While Drilling (MWD)
- RCS service tool-box
- · Electrical tool kit

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# 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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