SmartROC T35

Surface drill rigs for quarrying and construction

Hole diameter: 64–115 mm (2.5*–4.5*





Master in fuel efficiency

T35

When it comes to fuel efficiency, the SmartROC T35 burns less diesel than any other rig in its class. It's a great performer — even under the toughest drilling conditions.

Built with the operator in mind, an ergonomic user interface makes drilling safer, faster and more effective. Not only is the SmartROC T35 easy to operate and highly productive, but it ensures the lowest cost per cubic meter produced by any comparable rig in its hole range.

The Rig Control System automatically controls the engine RPM and compressor load to deliver exactly the amount of required power.

Additionally, the entire architecture of the SmartROC T35 is designed to reduce fuel consumption. Vital components are strategically placed and the length of hydraulic hoses is kept to a minimum — this reduces the amount of hydraulic oil needed.

🔁 Epiroc



Lowest fuel consumption in its class

High productivity with great hole quality

Long reach and perfect balance

Earn more per cubic meter

SmartROC rigs can be equipped with Epiroc's optional hole navigation system (HNS). This enables drill pattern navigation via GNSS 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 the drill and blast cost per cubic meter produced.







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 so 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 standard.

+ Operator in focus

For technology to be of value, it must be easy it is to use. This rig seamlessly integrates advanced technology, ease-of-use and safety. The air-conditioned 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.



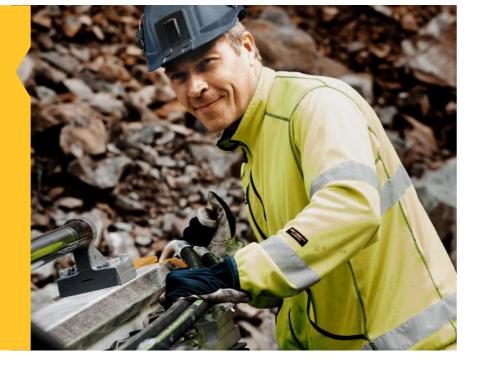
Improved serviceability

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 leaves more space for easier access and serviceability. The service interval of the COP rock drills is extended to 800 percussion hours, 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. • Operator's cabin, FOPS and
- ROPS approved.
- · LED work lights.
- · Folding boom system.

Hole range (recommended)

Rods and hole length

Length with starter rod 4,2 m (14') with 3,6 m (12') extension rods (Standard), Noise Reduct Length with starter rod 5,5 m (18') with 4,2 m (14') extension rods Length with starter rod 5,5 m (18') with 4,2 m (14') extension rods

Hvdraulic rock drill

Rock drill	Hole diameter		Impact power	Hydraulic pressure, max		Impact rate, max	Torque, max		Weight approx		
COP SC19	Ø 64–115 mm	0.64 115	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		02.5-4.5	2.5 -4.5 19 kw/25.5 np 230 bar 3 336 psi	427 50 HZ	1970 Nm	1453 LDT/TL	250 kg	551 lb			
COP SC25-HF	Ø 64-89 mm	Ø 2.5°-3.5°	25 kW/33.5 hp	240 bar	3 481 psi		1.550 Nim	1 143 lbf/ft	189 kg	417 lb	
COP SC25X-HF		Ø 2.5 -3.5	25 kw/ 33.5 np	240 Dar	3 461 psi	55/71 Hz	1550 Nm	1 143 lbf/ft	250 kg	551 lb	

Engine

Caterpillar turbo charged diesel engine	
CAT C7.1 Tier 4 Final/Stage 5 (EU/US cert.)	168 kW/225 hp
CAT C71 Tier 3/stage IIIA	(at 2 200 rpm)

Feed

Hydraulic cylinder feed with hose guide and double drill	Metric	US	Voltage	24 V	
rod support with movable lower guide/dust hood			Batteries	2 x 12 V, 185 Ah	
Extension	1400 mm	55.1"	Alternator (Tier 3)	28 V. 80 Ah	
Rate, max	0.92 m/s	184 ft/min			
Force, max	20 kN	4 400 lbf	Alternator (Tier 4 Final)	28 V, 105 Ah	
	-		Work lights LED type, front	4 x 3 500 lumen	
Tractive pull, max	20 kN	4 400 lbf	Work lights LED type, rear	2 x 3 500 lumen	
Total length	7 440 mm	292.9*			
Traval lanath	1 210 mana	166.9"	Work lights LED type, feed	2 x 5 300 lumen	
Travel length	4 240 mm	100.9	Warning lamp and reverse buzzer		

Volumes

	Metric	US	Pumps at 1800 rpm	Metric	US
Hydraulic oil tank	100 l	26.4 gal	Axial piston pump (1)	145 l/min	38.3 gal/min
Hydraulic system, total	160 l	42.3 gal	Gear pump (2)	75 l/min	19.8 gal/min
Compressor oil	22 l	5.8 gal	Gear pump (3)	50 l/min	13.2 gal/min
Diesel engine oil	16 l	4.2 gal	Gear pump (4)	30 l/min	7.9 gal/min
Diesel engine, cooling water	43 L	11.4 gal	Gear pump (5)	40 l/min	10.6 gal/min
Diesel engine fuel tank	370 l	97.7 gal	Hydraulic oil cooler max ambient temp.	50°C	122°F
Traction gear	31	0.8 gal	Return & drainage filters (filtration rate) 10 µm absolut		ite
Lubrication tank (ECL)	10 l	2.6 gal	Anti-jamming, Feed speed control, Proportional control – feed RPCF. Proportional control impact DPCI		
DEF fluid tank (Tier 4 Final only)	24 l	6.3 gal			

Dust collector DCT 110

	Metric	US		Metric	US
Filter area	11 m ²	118 sq.ft	Tramming speed	3.1 km/h	1.5 mph
Number of filter elements	11 pcs	11 pcs	Track oscillation	±12°	±12°
Suction capacity at 500 mm wg	560 l/s	1200 cfm	Ground clearance	455 mm	17.9"
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			

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

•	COP Logic	
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	Threads	Metric	US
	T38, T45, T51	Ø 64–115 mm	2.5"-4,5"
ion Kit	T38, T45, T51	28 m	91.9'
	T38, T45	33.5 m	109.9'
	T51	29.3 m	96.1'

Compressor

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

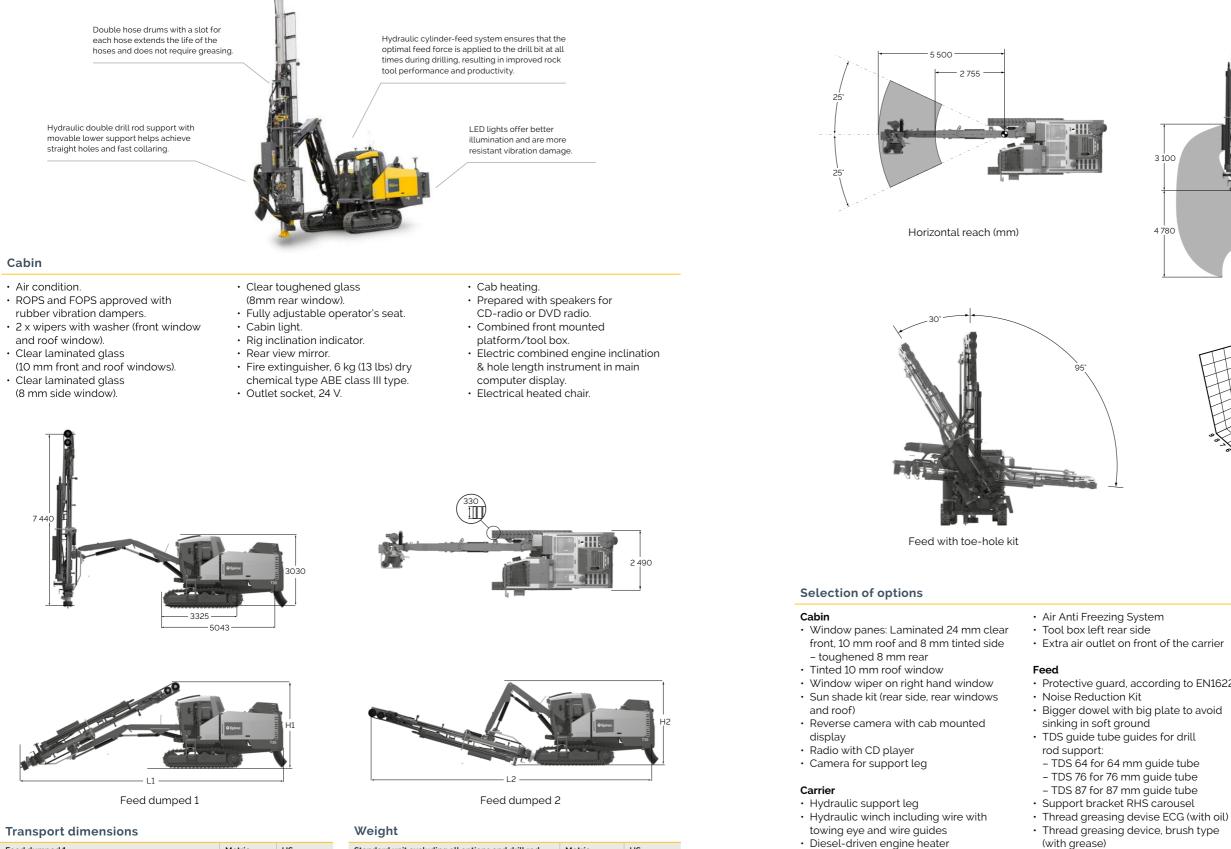
Electrical system

Hydraulic system

Carrier

Technical specifications

Technical specifications



Hole and inclination systems

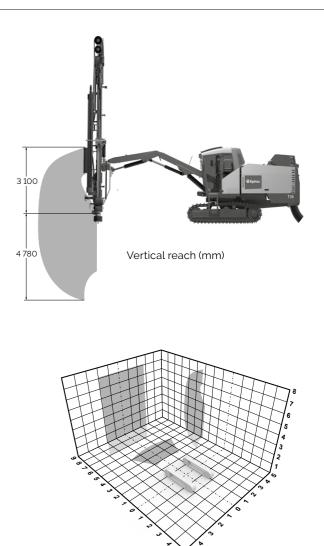
- Track chains with triple grouser pads
- LED side lights (points backwards
 - Automatic feed alignment
- Rubber disc for DCT
- PAR Oil M & S

Water system

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"

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

- Electric fuel filling system
- Tow hook
- towards the tracks)
- Central lubrication system



3D coverage area

- Protective guard, according to EN16228

 Laser plane receiver for hole length GPS compass aiming unit

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

Complete water mist system 150 l tank

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