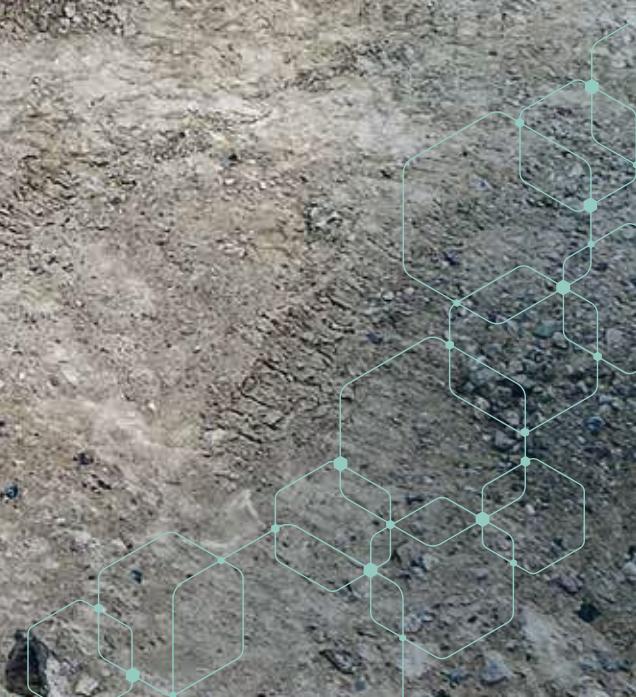


SmartROC T35

Surface drill rigs for quarrying and construction

Hole diameter: 64–115 mm (2.5"–4.5")

 **Epiroc**



A master of fuel efficiency

When it comes to fuel efficiency, the SmartROC T35 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 T35 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 T35 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



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

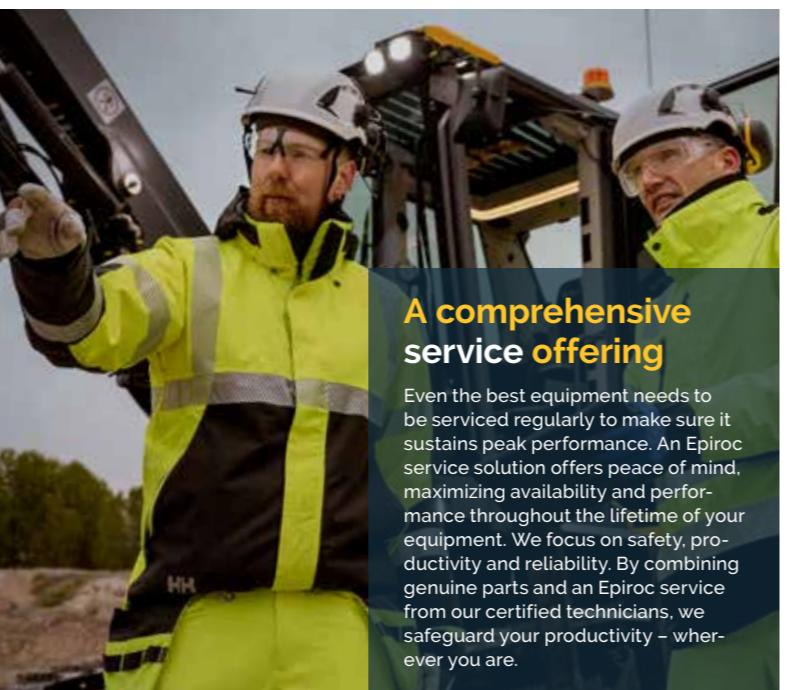
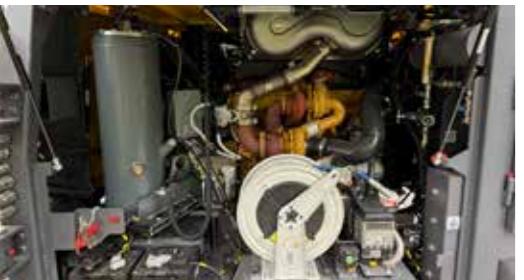
The entire system is designed to minimize energy loss. The operator can adjust precisely the flushing air volume and the dust collector fan speed according to need directly from the cabin. This ensures that both deliver only what is necessary for the best performance. Engine RPM and compressor load are self-adjusting according to demand. Three variable hydraulic pumps help lower engine speed during none-drilling time and tramping. 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 blast-resistant 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 T35 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.



The broadest range of tophammer drill strings in the world

Epiroc delivers the world's most productive tophammer drilling equipment—plus proven technology and reliability built on years of field experience. Whatever your needs, explore our full range before settling for less. Every product is engineered for optimal performance and value in tophammer applications.

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.
- 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
- Aluminum profile feed beam.
- 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"
9+1 RHS carousel, length = 3 660 mm, starter rod length max 4 220 mm		T38/T45/T51	36 m	118.1 ft
9+1 RHS carousel, length = 3 660 mm, starter rod length max 5 490 mm		T38/T45	37 m	121.4 ft
7+1 RHS carousel, length = 4 220, starter rod length max 5 490 mm		T45	33.7 m	110.6 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)		T38/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 SC19	Ø 64-115 mm	Ø 2.5"-4.5"	19 kW/25.5 hp	230 bar	3 336 psi	42/50 Hz
COP SC19X						1 970 Nm
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
COP SC25X-HF						1 550 Nm
						1 143 lbf/ft
						188 kg
						250 kg
						384 lb
						551 lb
						417 lb
						250 kg
						551 lb

Engine

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

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 C106, screw compressor	
Working pressure, max	10.5 bar
FAD, at normal working pressure	127 l/s
	270 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	9.2 gal
	43 l Tier 4 Final/Stage 5	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	28 V, 95 Ah
Work lights LED type, front	8 x 56 W 4 200 lumen
Work lights LED type, rear	2 x 56 W 4 200 lumen
Work lights LED type, feed	2 x 56 W 4 200 lumen
Warning lamp, reverse buzzer	

Sound and vibration*

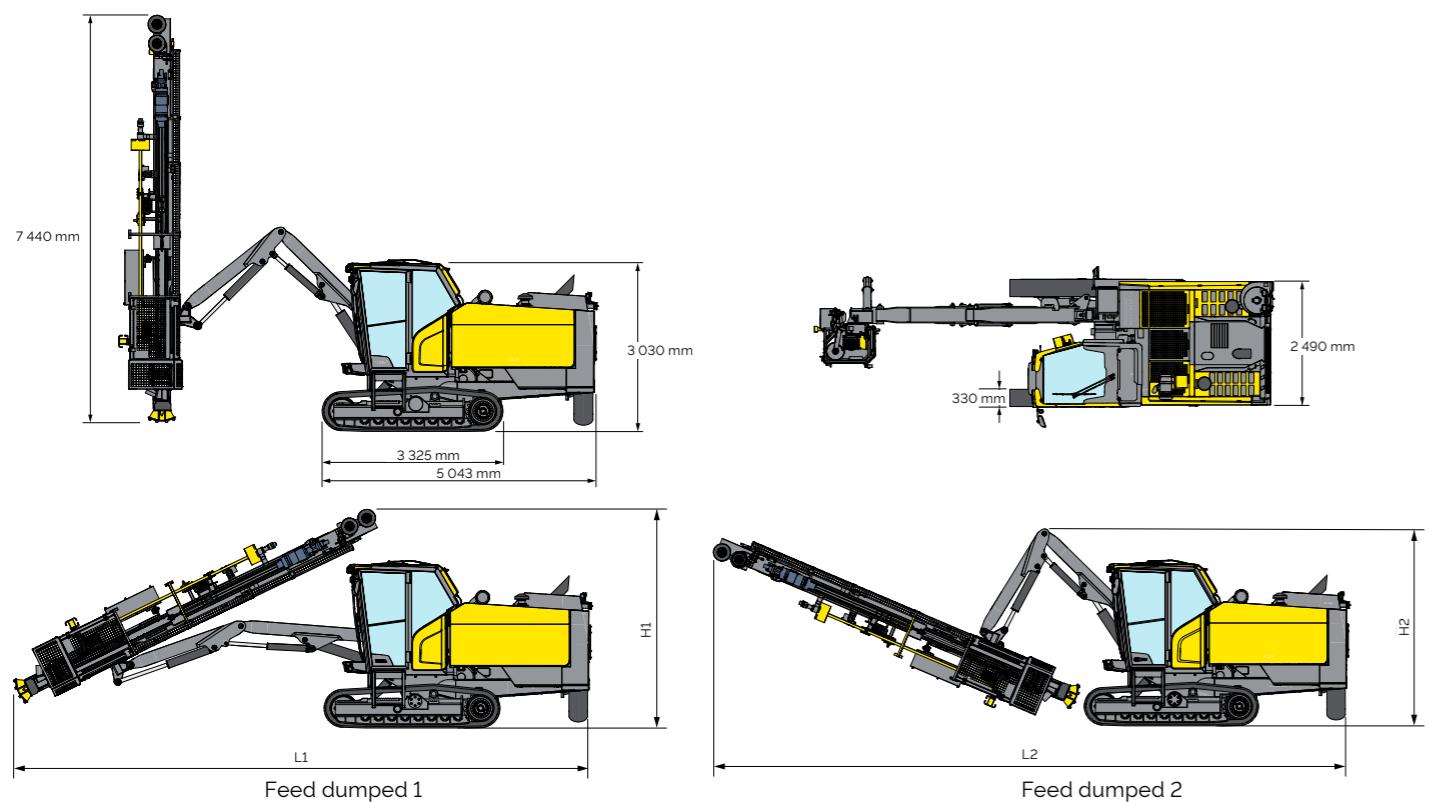
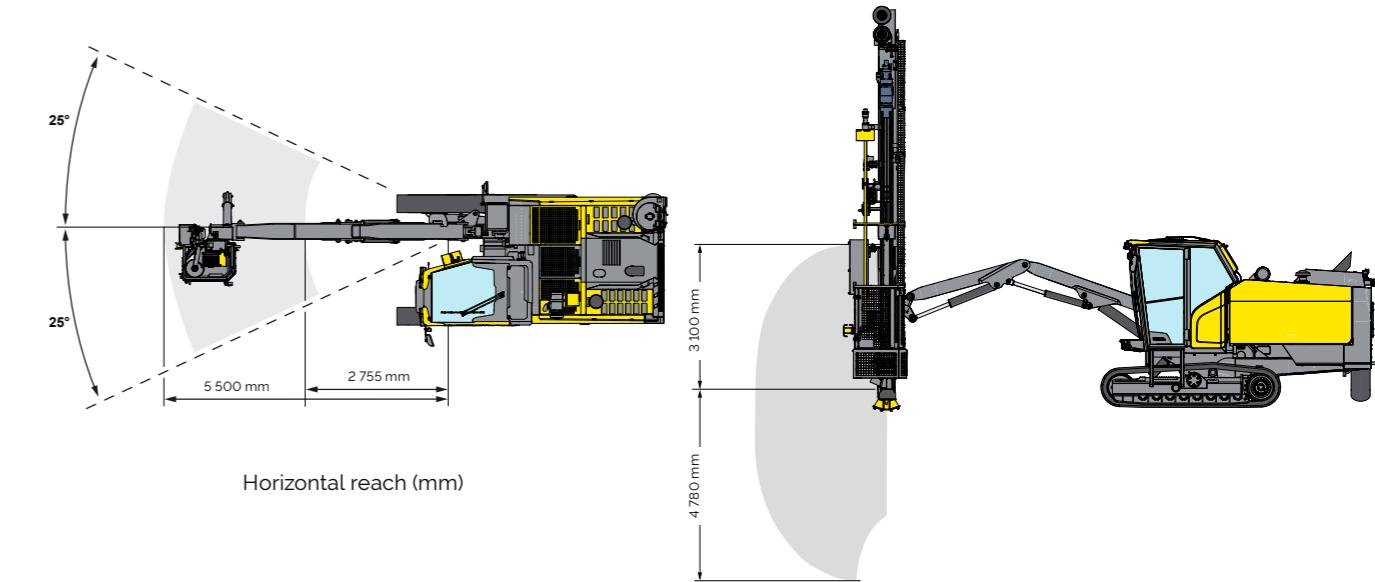
Cabin A-weighted Sound Pressure Level, LpA	69 +/- 3dB
Cabin vibration level during 8h average (m/s ²)	0.1 +/- 0.1
Cabin vibration level during 8h average (ft/s ²)	0.33 +/- 0.33
A-weighted Sound Power Level, LwA	124 dB
A-weighted sound pressure level, LpA, calculated (distance from rig)	
10 m	96 dB
20 m	90 dB
40 m	84 dB
80 m	78 dB
160 m	72 dB
320 m	66 dB
640 m	60 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



Technical specifications



Selection of options

Cabin

Feed

Carrier

Hole and inclination systems

Water system

Parts and services

Hole Navigation System (HNS)

Automation & software

Optional equipment not mounted

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°

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