PowerROC T45

Surface drill rig for quarrying and construction

Hole diameter: 76–127 mm (3"–5")

Epiroc





Powerful. Reliable.

PowerROC T45 is both powerful and dependable. It offers great productivity and high availability.

Thanks to its compact structure and high maneuverability, PowerROC T45 is perfect for construction sites, aggregate, cement and limestone quarries. The rig features a modular and straightforward design. This keeps operation and servicing simple. PowerROC T45 is equipped with Epiroc developed PowerROC control system, which helps decrease fuel consumption. Its intuitve 12.1-inch display in cabin facilitates operation as well. The PowerROC T45 is a rugged and reliable workhorse.

Main benefits

Fuel efficiency thanks to Epiroc developed PowerROC control system.

Easy to operate with an intuitive display which monitors running status and offers operator additional assistance.

High mobility and fast positioning due to its compact machine size and extendable boom system.

Ready to perform

The surface drill rig PowerROC T45 has a modular and straightforward design. The high level of commonality with other PowerROC tophammer rigs allows for easy maintenance and high availability. It benefits parts stock as well.



+ Simple to operate and maintain

The PowerROC T45 is straightforward and reliable. Its easy-to-understand system enables new operators to get down to drilling quickly as it is easy to learn and simple to use. It's equipped with a 12.1-inch display which presents operational status such as troubleshooting, maintenance requirements, rig inclination and drilling parameters, etc. Maintenance tasks can be performed rapidly which helps to increase availability and increase profitability. One-touch lever operation makes rod changing quicker and easier.



+ High quality blast holes

The better the hole, the better the blast. The COP Logic system helps to maintain the best drilling performance. Whatever the rock conditions, you can be sure the PowerROC T45 will achieve a high penetration rate and reduce the amount spent on consumables. COP SC25 rock drill, in combination with COP Logic control system, provides good contact between bit and rock and helps to optimize the transfer of impact energy, ensuring low fuel consumption and high-quality holes.



+ Ergonomic design and friendly to environment

The ergonomically designed cabin gives the operator full visibility during the drilling process, and offers great comfort. PowerROC control system built in PowerROC T45 delivers high fuel efficiency, making it possible to acheive the best profit by burning fuel as less as possible, which contributs to a reduced environmental footprint.

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 triple grouser pads, hydraulic track oscillation and two speed traction
- Tier 4 Final (Stage V), CAT C7.1, 168 kW
- Tier 3 (Stage IIIA) diesel engine, CAT C7.1, 172 kW
- Screw type air compressor
- ROPS and FOPS-certified cabin with a 12.1 inch display
- Extendable boom system
- Carousel type rod handling system
- Hydraulic rock drill
- Dust collector system with dust pre-separator
- Fleet Monitoring Solution with Fleet+ on My Epiroc
- Hole depth and feed inclination system

Engine

CAT turbo charged, diesel engine C7.1, Tier 3/ Stage IIIA	Metric	US
Power rating at 2 100 rpm	172 kW	231 hp
CAT turbo charged, diesel engine C7.1, Tier 4 Final/Stage V		
Power rating at 2 100 rpm	168 kW	225 hp

Boom

Extendable boom for front face toe hole and vertical drilling with wide coverage area	Metric	US
Boom extension	800 mm	31.5"
Boom lift angle	55° (above), 20° (below)	
Boom swing angle	43° (right), 15° (left)	

Compressor

Screw type air compressor	Metric	US
Working pressure, max	9.3 bar	135 psi
FAD, at normal working pressure	175 l/s	370 cfm

Hydraulic system

Hydraulic oil cooler	Metric	US
Max ambient temperature, Tier 3/Stage IIIA	50°C	122°F
Max ambient temperature, Tier 4 Final/Stage V	45°C	113°F

Electrical system

Voltage	24 V
Batteries	2 x 12 V, 180 Ah
Alternator	24 V, 115 A
Work lights, front	6 x 70 W
Work lights, rear	2 x 70 W
Reverse alarm	

Hydraulic rock drill

Rock drill	Impact power	Hydraulic pressure	Impact rate	Max torque	Weight approx
COP SC25	25 kW (33.5 hp)	250 bar (3 626 psi)	44/55 Hz	1 550 Nm (1 143 lbf-ft)	195 kg (430 lb)
COP SC25X				* 1 970 Nm (1 453 lbf-ft)	225 kg (496 lb)

* With 10 high torque rotation motor

Hole range (recommended)

Type of drilling	Drill steel type	Drilling diameter	Max hole depth	Drill steel length
Single pass	T45, T51	76-127 mm (3-5")	3.6 m (12')	4 270 mm (14')
Extension drilling	T45, T51	76-127 mm (3-5")	25 m (82')	4 270 mm (14') x 1; 3 660 mm (12') x 6

Feed

Hydraulic motor driven feed with double hose drum with drill steel centralizer and movable dust hood	Metric	US
Feed extension	1 500 mm	59"
Feed rate, max	1.1 m/s	217 ft/min
Feed force, max	21 kN	4 721 lbf
Tractive pull, max	21 kN	4 721 lbf
Total length	7 820 mm	308"
Travel length	4 400 mm	173"

Volumes

Hydraulic oil tank	97 l	25.6 US gal
Hydraulic system, total	150 l	40 US gal
Compressor oil	24 l	6.3 US gal
Diesel engine oil	16 l	4.2 US gal
Diesel engine, cooling water	31 l	8.2 US gal
Diesel engine, fuel tank	275 l	72.6 US gal
Track gear oil	2.2 l	0.58 US gal
Lubrication tank (ECL)	7.0 l	1.85 US gal
DEF fluid tank (Stage V)	24 l	6.3 US gal

Dust collector

	Metric	US
Filter area	14 m^2	150 sq.ft
Number of filter elements	14 pcs	14 pcs
Cleaning air pressure, max	7.5 bar	108 psi
Cleaning air consumption	2-4 l/pulse	4-8 cfm
Suction hose diameter	127 mm	5"
Suction capacity at 500 mm wg	540 l/s	1 145 cfm

Selection of options

Carrier
- Track chains with single grouser pads
- Central lubrication system
- Cold weather engine start kit
- Rear ladder
- Winch

Hole measuring systems
- Hole depth and feed inclination system with aiming unit
- Hole depth and feed inclination system with GPS Compass aiming unit
- Hole Navigation System (HNS complete package for CHC, 403-473 MHZ)

Dust control
- Anti wear suction hose (Diameter 127 mm)

Delivered equipment, not mounted
- Gas charging equipment for rock drill
- 09 (250 cc/rev) high speed rotation motor kit
- 11 (350 cc/rev) high torque rotation motor kit
- T45/63 dimension kit
- T51/72 dimension kit
- Specific kit, option for Japan
- Deluxe tool set

Feed
- Extractor on rock drill
- Sleeve retainer
- RHS for T45 SPEEDROD
- RHS for T45 with 63 mm coupling
- RHS for T45 with 66 mm coupling
- RHS for T51 SPEEDROD
- RHS for T51 with 72 mm coupling
- RHS for T51 with 77 mm coupling

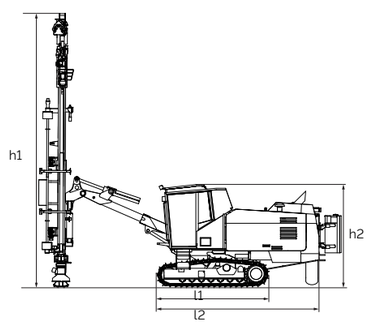
Lube oil, lube system and water mist system
- Water mist system (150 litters water tank)
- Fuel filling pump kit (electric)
- Hydraulic oil filling pump kit (electric)
- Fast fuel charge kit

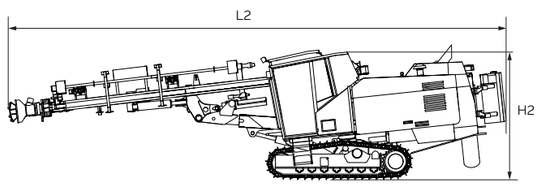
CE requirement
- Protection of Moving Parts (PoMP)
- Handrail on top of canopy

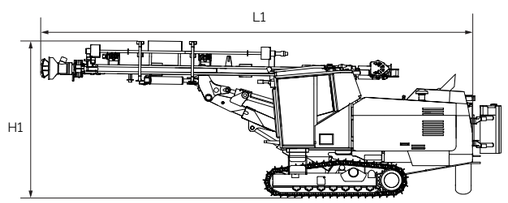
Safety cabin
- Warning light - BEACON type
- Side view mirror (R)
- LED work lights
- Multi-view camera (three)
- Reverse camera (one) with display mounted in cabin

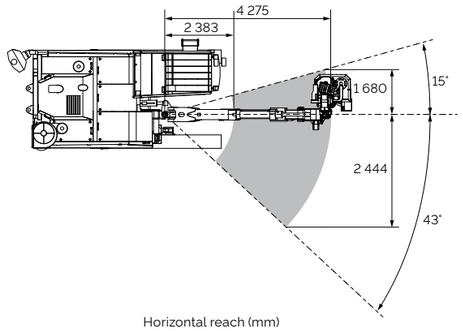
Transport dimensions

Tier 3	Metric	US
Feed height (h1)	7 820 mm	308"
Cabin height (h2)	2 925 mm	115"
Feed dumped 1		
Height (H1)	3 126 mm	123"
Length (L1)	9 540 mm	375.5"
Width (W1)	2 430 mm	95.6"
Feed dumped 2		
Height (H2)	3 200 mm	126"
Length (L2)	11 600 mm	355.5"
Width (W1)	2 430 mm	95.6"
Track		
l1	3 175 mm	125"
l2	4 750 mm	187"
Weight		
Tier 3/Stage IIIA	14 600 kg	32 187 lb
Tier 4 Final/Stage V	14 900 kg	32 848 lb

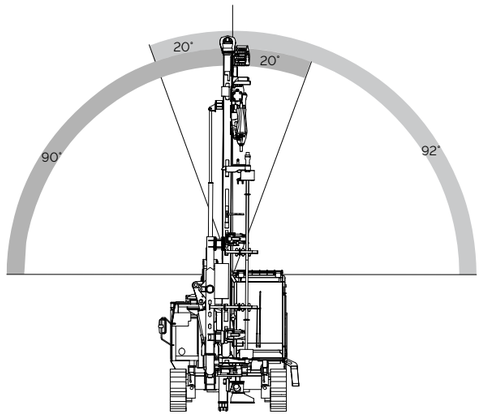




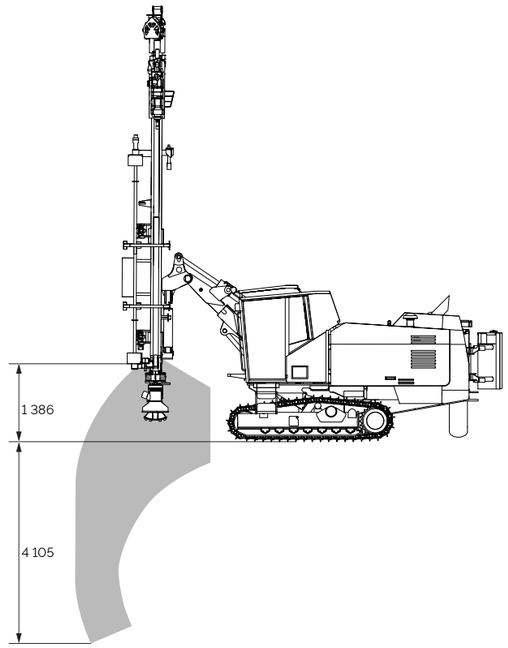




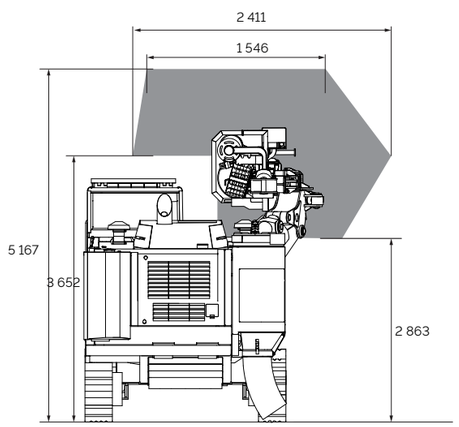
Horizontal reach (mm)



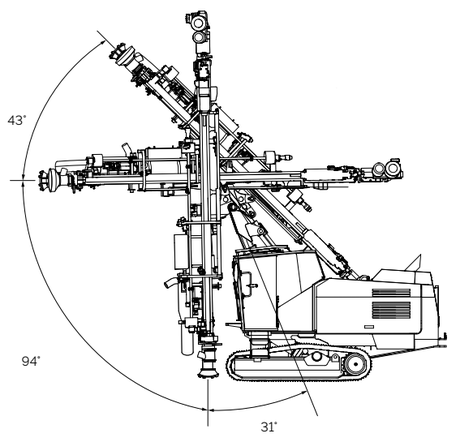
Feed swing angle



Vertical reach (mm)



Front face horizontal coverage area (mm)



Feed dump angle

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