

SMARTROC T35 SURFACE DRILLS

TECHNICAL SPECIFICATION



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.
- 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)	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 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	1 970 Nm	1 453 lbf/ft	188 kg	384 lb
COP SC19X									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	55/71 Hz	1 550 Nm	1 143 lbf/ft	189 kg	417 lb
COP SC25X-HF									250 kg	551 lb

Engine

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

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

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	7 440 mm	292.9'
Travel length	4 240 mm	166.9'

Electrical system

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	3 l	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
Gear pump (2)	75 L/min	19.8 gal/min
Gear 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		

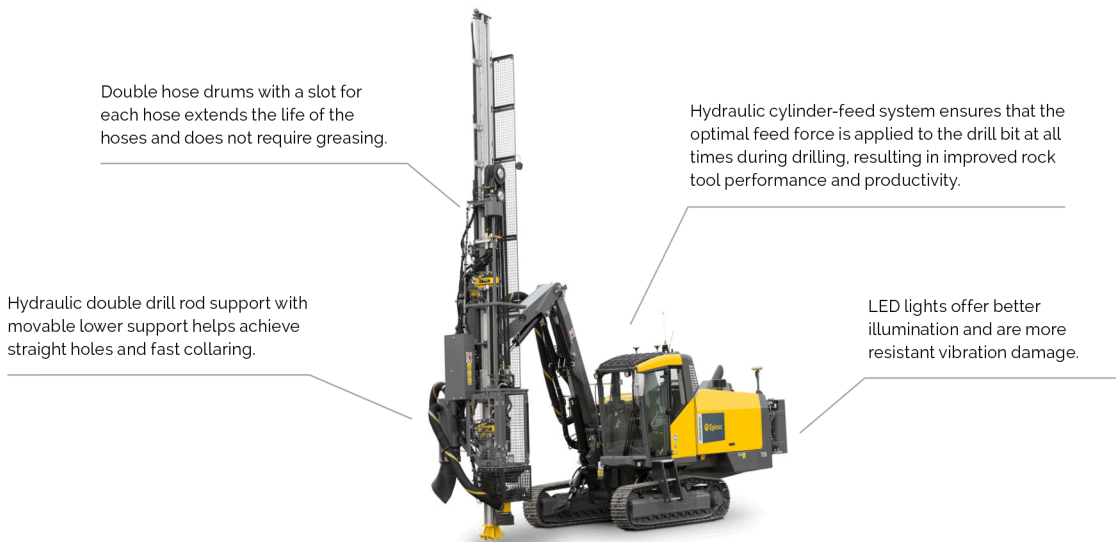
Carrier

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

Dust collector DCT 110

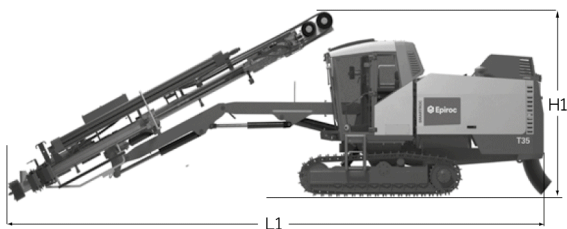
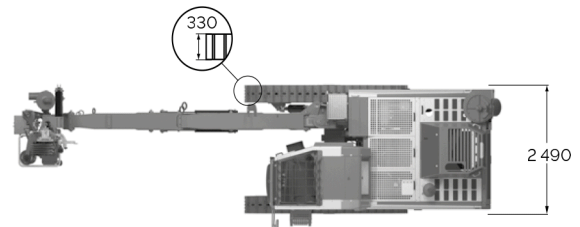
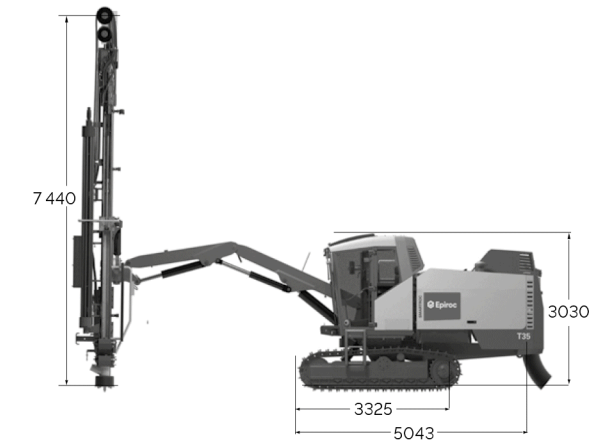
	Metric	US
Filter area	11 m ²	118 sq.ft
Number of filter elements	11 pcs	11 pcs
Suction capacity at 500 mm wg	560 L/s	1 200 cfm
Suction hose diam	127 mm	5"
Cleaning air pressure, max	7.5 bar	109 psi
Cleaning air consumption	2–4 L/pulse	0.06–0.12 cu.ft/pulse

Technical specifications

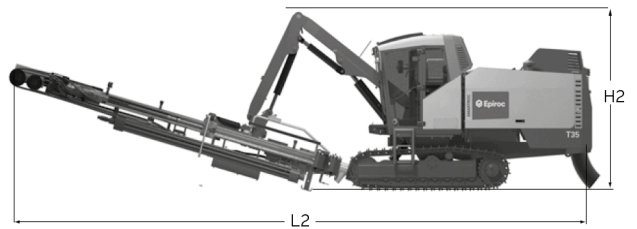


Cabin

- 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.
- Electrical heated chair.



Feed dumped 1



Feed dumped 2

Transport dimensions

Feed dumped 1	Metric	US
Height (H1)	3 200 mm	126.0'
Length (L1)	11 600 mm	456.7'
Feed dumped 2		
Height (H2)	3 400 mm	133.9'
Length (L2)	11 000 mm	433.1'

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