FlexiROC T20 R

A drill rig for surface- and underground construction

Hole diameter: 38–64 mm (1.5"–2.5")

Epiroc

Multi-purpose without compromise

The FlexiROC T20 R (MK II) is the construction contractor's new best friend. The pure drilling power of the 14 kW rock drill is key.

Features such as Radio Remote Control (RRC), COP SC14 rock drill and flexible drilling angles make the FlexiROC T20 R class-leader. It makes even the toughest operations look easy. Its compact size means it can be transported swiftly from job to job. The FlexiROC T20 R is the most effective drill rig on the market when it comes to application versatility and drilling performance.

Main benefits

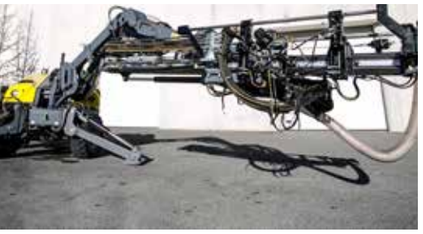
Application versatility thanks to the COP SC14 rock drill

Extensive boom reach means fewer set-ups

Optimized for small spaces thanks to three different feed lengths

Performance and application versatility

The FlexiROC T20R is a class-leader. It has great coverage, hydraulic rollover and is equiped with the COP SC14 rock drill. This makes it ideal for many applications, both on the surface and underground



+ Great coverage area and productivity

With its extensive boom reach, the FlexiROC T20 R saves both time and money. A boom reach of 3 500 mm through a 90° radius translates into more holes from fewer set-ups. This versatility makes the FlexiROC T20 R the best choice for demanding construction jobs, such as foundation drilling, trenching and different tunneling operations.

+ Hydraulic rollover

Most drill rigs can place holes in the ground, but the FlexiROC T20 R does not stop there. It can perform 360° drilling in all directions, sidewards, upwards and horizontal face drilling. This makes the drill rig perfectly suited for operations both on the surface and underground. It is all made possible with the rollover, available as hydraulic or manual.

+ Cylinder feed and COP SC14

The high freqency rock drill, COP SC14, mounted on the well proven Epiroc cylinder feed BMH 2000, makes for outstanding drilling performance. The smooth feed action keeps sleeve temperatures to a minimum which means good service life of the rock drilling tools, even with high impact pressure.

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

- Hydraulic rock drill, COP SC14
- BMH 2000 cylinder feed
- Full Radio Remote Control of all functions
- Atlas Copco OIS H03 screw compressor
- Hydraulic rollover, 190° + 190°
- Cummins turbo charged diesel engine, QSB3.3 Tier 3 (stage IIIA) or Tier 4 interim
- Hydraulic drill rod support
- 4-wheel drive with differential locking system

Hole range (recommended)

Feed type, underground drilling (with hole length)	Metric	US	Threads	Metric			US		
				Std.	RAS (option)		Std	RAS (option)	
				1 drill rod	2 drill rods	2+ drill rods	1 drill rod	2 drill rods	2+ drill rods
With 8' feed	Ø 38–64 mm	Ø 1.5"–2.5"	SR32, R32, TC35, T35	2.2 m	4.0 m	12 m*	7.2'	13.1'	39.4'*
With 10' feed				2.9 m	5.3 m		9.5'	17.4'	
With 12' feed				3.4 m	6.5 m		11.1'	21.3'	
Feed type, surface drilling (with hole length)									
With 8' feed	Ø 38–64 mm	Ø 1.5"–2.5"	SR32, R32, TC35, T35	2.1 m	3.9 m	12 m*	6.9'	12.8'	39.4'*
With 10' feed				2.8 m	5.2 m		9.2'	17.1'	
With 12' feed				3.3 m	6.4 m		10.8'	20.1'	

** Requires manually loading additional drill rods into the RAS.*

Engine options

Cummins diesel F3.8 Tier4F/Stage V	
Power rating at 2 500 rpm	100 kW/134 hp
Cummins diesel QSB3.3, Tier 3 (stage IIIA)	
Power rating at 2 400 rpm	82 kW/110 hp

Compressor

Atlas Copco OIS H03/Gardner Denver Enduro 6+ Tier 3 (stage IIIA)	Metric	US
Working pressure, max	12 bar	174 psi
FAD, at normal working pressure	50 l/s	106 cfm

Hydraulic rock drill

Rock drill	Boom type	Impact power		Hydraulic pressure, max		Impact rate	RPM, max	Torque, max		Weight approx	
COP SC14	Folding boom	14 kW	19 hp	210 bar	3 045 psi	80 Hz	250	470 Nm	206 lbf/ft	75 kg	165 lb

Feed

	With 8' feed		With 10' feed		With 12' feed	
	Metric	US	Metric	US	Metric	US
Total length	4 020 mm	158.3"	4 620 mm	181.9"	5 220 mm	205.5"
Travel length	2 390 mm	94.1"	2 990 mm	117.7"	3 590 mm	141.3"
Feed extension	600 mm	23.6"	1 000 mm	39.4"	1 000 mm	39.4"
Feed rate, max	0.5 m/s	98 ft/min	0.5 m/s	98 ft/min	0.5 m/s	98 ft/min
Feed force, max	16 kN	3 597 lbf	16 kN	3 597 lbf	16 kN	3 597 lbf
Tractive pull, max	20 kN	4 400 lbf	20 kN	4 400 lbf	20 kN	4 400 lbf

Electrical system

Voltage	24 V
Batteries	2 x 12 V, 100 Ah
Alternator	24 V, 55 Ah
Work lights, front	2 x 40 W LED + 2 x 70 W halogen
Work lights, rear	1 x 40 W + 2 x 21 W LED
Work lights, feed	2 x 40 W LED
Reverse buzzer	

Dust collector DCT

	Metric	US
Filter area	8 m²	86 sq.ft
Suction capacity at 500 mm wg	580 l/s	1 228 cfm
Suction hose diam	102/127 mm	4/5"
Cleaning air pressure, max	7.5 bar	109 psi
Cleaning air consumption @ 7 bar	15 l/pulse	0.53 cu.ft/pulse
Filter cleaning while drilling		
2 pcs of filter elements		

Hydraulic system

Hydraulic oil cooler max ambient temperature	50°C	122°F
Return and drainage filters (filtration rate)	10 µm absolute	
Anti-jamming, Damper Pressure Control - impact DPC-I Rotation Pressure Control - feed RPC-F		

Volumes

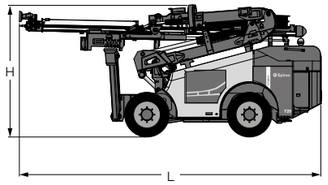
	Metric	US
Hydraulic oil tank	60 l	16.0 gal
Hydraulic system, total	120 l	32.0 gal
Compressor oil	9 l	2.4 gal
Diesel engine oil	8.5 l	2.2 gal
Diesel engine, fuel tank	140 l	37.0 gal
Lubrication tank (ECL)	6 l	1.6 gal

Sound*

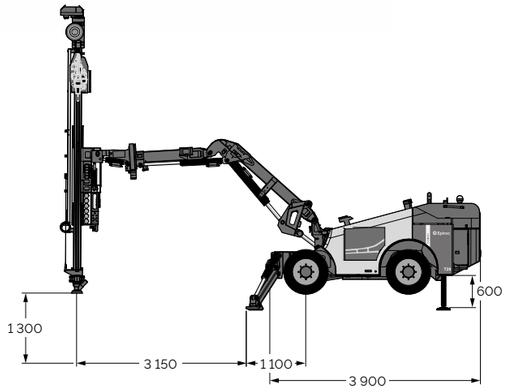
A-weighted Sound Power Level, LwA			125 dB
A-weighted sound pressure level, LpA, calculated (distance from rig)			
10 m	97 dB	160 m	73 dB
20 m	91 dB	320 m	67 dB
40 m	85 dB	640 m	61 dB
80 m	79 dB	1280 m	55 dB

** 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



Dimensions for 12' feed

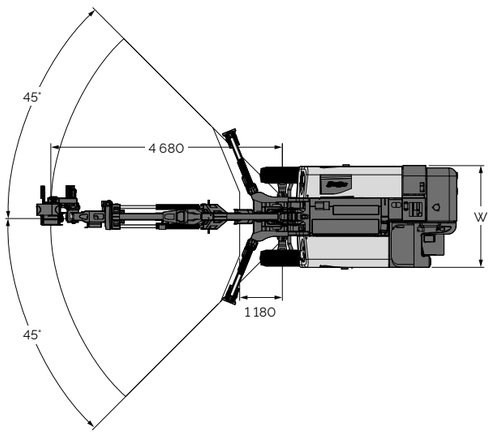


Transport dimensions

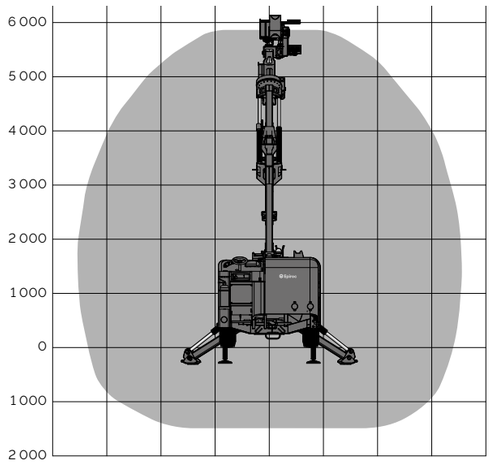
	Metric	US
Height (H)	2 600 mm	102.4"
Length (L)	5 700 mm	224.4"
Width (W)	1 880 mm	74.0"
Weight (12' feed standard unit) and Tier 3	5 600 kg	12 345 lb
Weight (12' feed standard unit) and Tier 4F/Stage V	6 500 kg	14 330 lb

Feed height

	Metric	US
8' feed	4 020 mm	158.3"
10' feed	4 620 mm	181.9"
12' feed	5 220 mm	205.5"

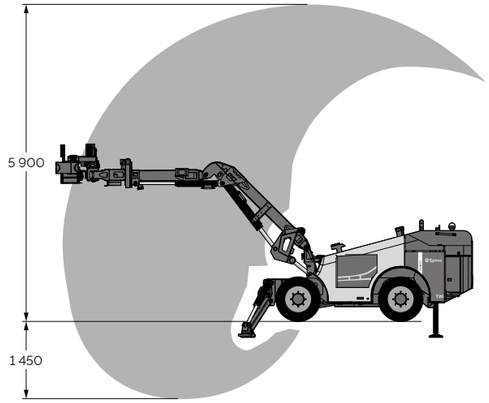


Horizontal reach (mm)

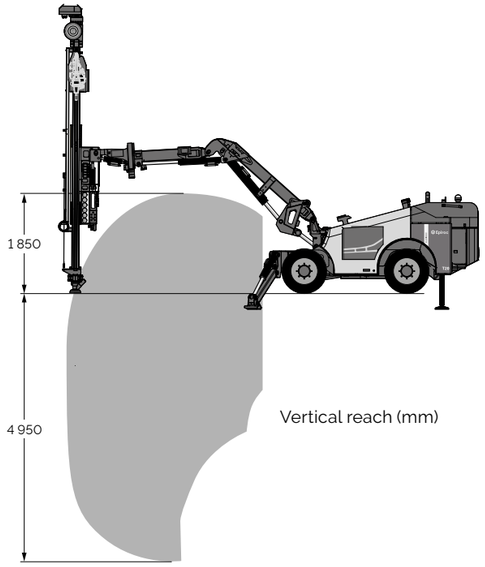


Horizontal drilling
forwards with hydraulic rollover

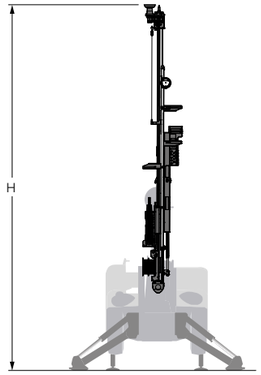
Technical specifications



Horizontal drilling sidewards (mm)

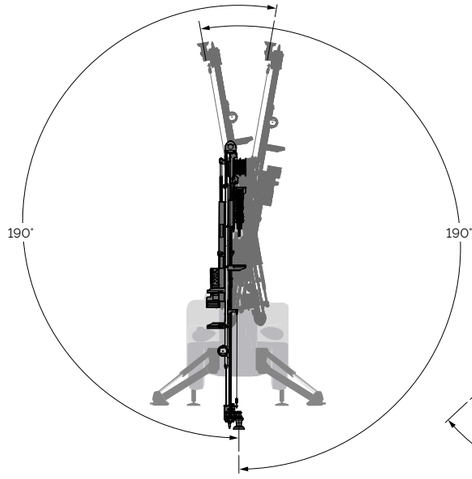


Vertical reach (mm)



Upwards drilling (H)

Feed	Metric	US
8'	8 000 mm	315.0"
10'	8 500 mm	334.6"
12'	9 100 mm	358.3"



Rollover

Feed swing angle

Optional equipment

Carrier
- Water flushing kit with water pump
- Hydraulic winch
- Diesel engine pre heater
- Electric refilling pump
- Hydraulic AUX outlet

Dust control
- Water mist system

Feed
- Available with 8', 10' and 12' feed
- Rod Adding System (RAS)

Hole measuring systems
- Hole length instrument

Lube oil and lube system
- ECL collection system

Delivered equipment, not mounted
- Gas charging equipment for rock drill
- Conversion kit R32
- Conversion kit T35/TC35
- Chains for tires

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