

SmartROC T45

SURFACE DRILL RIGS

TECHNICAL SPECIFICATION



Technical specifications

Double hose drums with a slot for each hose. This extends the life of the hoses and removes the need for greasing.

POMP cage.*

The rig features a comfortable seat, two multi-functional joysticks and a FOPS/ROPS cabin which provides good visibility.

Discover more about the SmartROCT45.

A rock drill control system, COP Logic, helps ensure hole quality and a high penetration rate.

Reduced number of hoses and couplings for improved serviceability.



* Only applicable in certain countries.

Main components and selection of options

☐ = Standard ☐ = Option

Automation & software		Carrier		Hole and inclination systems	
AutoPos	<input type="checkbox"/>	Rig inclination indicator, analog	<input type="checkbox"/>	Sleeve retainer	<input type="checkbox"/>
MeasureWhile Drilling (MWD)	<input type="checkbox"/>	Rubber vibration dampers	<input type="checkbox"/>	Standard or folding boom system	<input type="checkbox"/>
Rig Control System (RCS)	<input type="checkbox"/>	Window wiper, right hand window	<input type="checkbox"/>	TDS guide tube guides, 64/76/87 mm	<input type="checkbox"/>
Rig Remote Access (RRA)	<input type="checkbox"/>	Wipers, front and roof windows	<input type="checkbox"/>	Thread lubrication system	<input type="checkbox"/>
ROC Manager	<input type="checkbox"/>	Carrier		Toe-hole drilling system	<input type="checkbox"/>
Cabin		Atlas Copco screw type compressor	<input type="checkbox"/>	Hole and inclination systems	
10 or 24 mm laminated clear front glass	<input type="checkbox"/>	Caterpillar turbo charged diesel engine	<input type="checkbox"/>	GPS compass aiming unit	<input type="checkbox"/>
15" touch display	<input type="checkbox"/>	Two speed undercarriage with track oscillation	<input type="checkbox"/>	Laser plane receiver for hole depth	<input type="checkbox"/>
Adjustable foot rest.	<input type="checkbox"/>	Dust collection system	<input type="checkbox"/>	Hole Navigation System (HNS)	
Air conditioning	<input type="checkbox"/>	Hydraulic support leg	<input type="checkbox"/>	Leica (fully installed option or pre-prepared)	<input type="checkbox"/>
Air flow switch	<input type="checkbox"/>	Hydraulic winch	<input type="checkbox"/>	Trimble (fully installed option or pre-prepared)	<input type="checkbox"/>
Audio system	<input type="checkbox"/>	Radio RemoteControl (RRC)	<input type="checkbox"/>	Water system	
Automatic cooler fancontrol	<input type="checkbox"/>	Warning BEACON light with alarm	<input type="checkbox"/>	Water mist system incl. 400 L tank	<input type="checkbox"/>
Cabin light	<input type="checkbox"/>	Feed/boom		Insulation for water tank	<input type="checkbox"/>
Clear or tinted surrounding glass	<input type="checkbox"/>	Automatic rod adding	<input type="checkbox"/>	Extra 400 L tank	<input type="checkbox"/>
Combined front mounted platform/tool box	<input type="checkbox"/>	Carousel type rod handling system	<input type="checkbox"/>	Parts and Services	
Fire extinguisher, 6 kg (13 lbs)	<input type="checkbox"/>	COP Logic	<input type="checkbox"/>	Conversion kit for threads T45/ T51/ T60	<input type="checkbox"/>
FOPS and ROPS approved	<input type="checkbox"/>	Double hose drum	<input type="checkbox"/>	COP Care	<input type="checkbox"/>
Fully adjustable operator's seat	<input type="checkbox"/>	Dust pre separator	<input type="checkbox"/>	Electrical tool kit	<input type="checkbox"/>
Outlet socket, 24V	<input type="checkbox"/>	Hydraulic double drill rod support	<input type="checkbox"/>	First 50 hrs service kit for compressor	<input type="checkbox"/>
Prepared with speakers for audio system	<input type="checkbox"/>	Long feed	<input type="checkbox"/>	Gas charging equipment (for rock drill)	<input type="checkbox"/>
Rear view mirrors	<input type="checkbox"/>	Protective guard (EN16228)	<input type="checkbox"/>	Lubrication kit	<input type="checkbox"/>
Reverse camera	<input type="checkbox"/>	Rock drill lubricationsystem	<input type="checkbox"/>	RCS service tool-box	<input type="checkbox"/>
		Service winch with jib boom	<input type="checkbox"/>	ROC Care	<input type="checkbox"/>

Hole range (recommended)

	Threads	Metric	US
Standard boom	T51, T60	Ø 89-140 mm	Ø 3.5"-5.5"
Folding boom	T45, T51	Ø 89-127mm	Ø 3.5"-5"
Rods and length			
Standard boom. Hydraulic rod handling system for max hole length, with 7 x 4.2 m (14') extensions rods and a 6.1 m (20') starter rod	T51, T60	35 m	115'
Standard boom LF. Hydraulic rod handling system for max hole length, with 5 x 6.10 m (20') extensions rods and a 7.3 m (24') starter rod	T51, T60	36 m	118'
Folding boom. Hydraulic rod handling system for max hole length, with 7 x 3.6 m (12') extensions rods and a 4.2 m (14') starter rod	T45, T51	29 m	95'

Hydraulic rock drill

Rock drill	Boom	Impact power		Hydraulic pressure, max		Impact rate, max	Torque, max		Weight approx	
COP SC25- HE	Folding boom	25 kW	33.5 hp	200 bar	2 900 psi	44 Hz/55Hz	1550 Nm	1143 lbf/ft	195 kg	430 lb
COP SC25X- HE							1970 Nm	1453 lbf/ft	249 kg	549 lb
COP 3060	Standard boom	30 kW	41 hp	240 bar	3 481 psi	50 Hz	2 450 Nm	1807 lbf/ft	315 kg	694 lb
COP 3060EX									355 kg	783 lb

Engine

Caterpillar turbo charged diesel engine	
CAT C9.3B Tier 4 Final/Stage 5 (EU/US cert.)	250 kW/340 hp at 1900 rpm
CAT C9.3B Tier 3/EU stage IIIA	250 kW/340 hp at 1900 rpm

Compressor

C146-07, screw type compressor	Metric	US
Working pressure, max	12 bar	174 psi
FAD, at normal working pressure	223 l/s	473 cfm