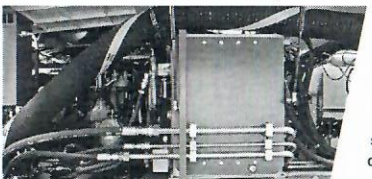
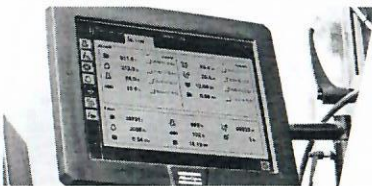


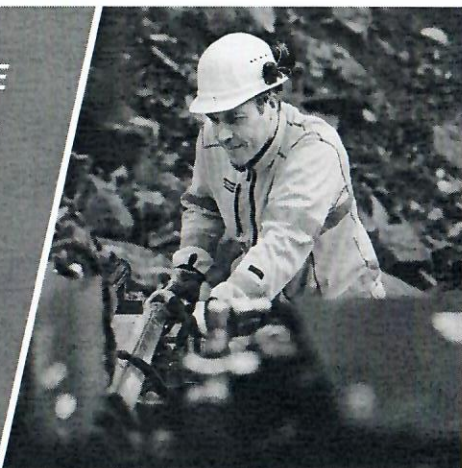
EARN MORE PER CUBIC METER

SMARTROC RIGS CAN BE EQUIPPED WITH A HOLE NAVIGATION SYSTEM (HNS) AS AN OPTION, ENABLING DRILL PATTERN NAVIGATION VIA GNSS RECEIVERS. HNS MANAGES HOLE POSITION, INCLINATION, CORRECT AIMING AND THE REQUIRED HOLE DEPTH AS DEFINED IN THE PREPARED DRILL PLAN. THE RESULT IS A DECREASE IN THE DRILL AND BLAST COST PER CUBIC METER PRODUCED.



ATLAS COPCO SERVICE

Even the best equipment requires regular service to ensure optimal performance. Atlas Copco provides service solutions to safeguard an optimized relationship between productivity, availability and operational cost. Atlas Copco Mining and Rock Excavation Technique has over 3 300 technicians located in over 80 countries. By combining the usage of Atlas Copco genuine parts with service provided by a certified Atlas Copco technician, you'll have a winning combination no matter of where in the world you operate.



+ FUEL EFFICIENCY

The entire system is designed to minimize energy losses. The operator can adjust the flushing air volume and the dust collector fan speed according to need; so that both deliver only what is necessary for the best performance. Engine and compressor speed are self-adjusting according to demand. Three variable hydraulic pumps help lower engine speed during none-drilling time and tramming. Further, an automatic cooler fan control is standard.

+ OPERATOR IN FOCUS

The value of technology is directly related to how easy it is to use. These rigs integrate advanced technology with operator ease-of-use and safety. Inside the cleanly designed and comfortable cabin, the operator has full control over an efficient drilling cycle using two multifunction joysticks and an icon-based instrument panel. These rigs are equipped with an automatic rod adding system, enabling them to drill preset hole depths without operator interaction improving on consumables lifespan.

+ IMPROVED SERVICEABILITY

Compared to similar rigs on the market, SmartROC T35 and T40 have 50% less hoses and 70% less couplings reducing the risk of leakage. Hydraulic valves and electric modules are distributed and positioned at the location where they function, allowing for easier access to components. Compared to previous generation rigs, the hydraulic tank is 65% smaller for more space and easier service access. The machines have double hose drums on the feeder as standard.

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, ROPS and FOPS 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 collection system
- 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 steel support with movable down support
- Service lamp inside canopy
- Rock drill oil collecting system
- Rubber skirt for DCT
- COP Logic

HOLE RANGE

Recommended hole range		Metric	Imperial
SmartROC T35	T38, T45, T51	64-115 mm	2 1/2" - 4 1/2"
SmartROC T40	T45, T51	76-127 mm	3" - 5"
Hydraulic rod handling system for max hole depth, with 3.6 m (12') extension rods			
SmartROC T35	T38, T45, T51	28 m	92'
SmartROC T40	T45, T51	28 m	92'

ENGINE

Caterpillar turbo charged, diesel engine, CAT C7.1, 3/EU Stage IIIA and Tier 4 Final/EU stage IV and Add Blue	Metric	Imperial
Power rating at 2200 rpm	168 kW	225 HP

AIR CONDITIONER

	Metric	Imperial
Refrigerant	R134a	
Cooling capacity	5.5 kW	
Fan suction capacity	125 l/s	265 cfm

HYDRAULIC ROCK DRILL

Rock drill	Drill rig	Impact power		Hydraulic pressure, max		Impact rate, max	Torque, max		Weight approx	
COP 1840+	SmartROC T35	20 kW	26.8 hp	230 bar	3 335 psi	42-50 Hz	1180 Nm	870 lbf/ft	175 kg	385 lb
COP 1840EX+		23 kW	30.8 hp	230 bar	3 335 psi	55-70 Hz	1180 Nm	870 lbf/ft	175 kg	385 lb
COP 2540+		23 kW	30.8 hp	230 bar	3 335 psi	55-70 Hz	1180 Nm	870 lbf/ft	230 kg	507 lb
COP 2540EX+		23 kW	30.8 hp	230 bar	3 335 psi	55-70 Hz	1180 Nm	870 lbf/ft	187 kg	412 lb
COP 2560+	SmartROC T40	25 kW	33.5 hp	230 bar	3 335 psi	44-53 Hz	1810 Nm	1 335 lbf/ft	249 kg	549 lb
COP 2560EX+		25 kW	33.5 hp	230 bar	3 335 psi	44-53 Hz	1810 Nm	1 335 lbf/ft	249 kg	549 lb

FEED

Hydraulic cylinder feed with hose guide and double drill steel support with movable lower guide/dust hood	Metric	Imperial
Feed extension	1 400 mm	4' 7"
Feed rate, max	0.92 m/s	184 ft/min
Feed force, max	20 kN	4 400 lbf
Tractive pull, max	20 kN	4 400 lbf
SmartROC T35/ SmartROC T40		
Total length	7 440 mm	24' 5"
Travel length	4 240 mm	14'

COMPRESSOR

Atlas Copco OIS K-36-C111 GD, screw compressor, SmartROC T35	Metric	Imperial
Working pressure, max	10.5 bar	152 psi
FAD, at normal working pressure	127 l/s	270 cfm
Atlas Copco OIS K-36-C111 GD, screw compressor, SmartROC T40		
Working pressure, max	10.5 bar	152 psi
FAD, at normal working pressure	153 l/s	325 cfm

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 3500 Lumen
Work lights LED type, rear	2 x 3500 Lumen
Work lights LED type, feed	2 x 5300 Lumen
Warning lamp and reverse buzzer	

HYDRAULIC SYSTEM

Anti-jamming, Feed speed control, Proportional control - feed RPCF, Proportional control impact DPC		
Hydraulic oil cooler	Metric	Imperial
Max ambient temperature	50°C	122°F
Pumps at 1800 rpm		
Axial piston pump (1)	145 l/min	38.3 US gal/min
Gear pump (2)	75 l/min	19.8 US gal/min
Gear pump (3)	50 l/min	13.2 US gal/min
Gear pump (4)	30 l/min	7.9 US gal/min
Gear pump (5)	40 l/min	10.6 US gal/min
Return and drainage filters	Metric	Imperial
Filtration rate	10 µm absolute	

VOLUMES

	Metric	Imperial
Hydraulic oil tank	100 l	26 US gal
Hydraulic system, total	160 l	42.7 US gal
Compressor oil	22 l	5.8 US gal
Diesel engine oil	16 l	4.2 US gal
Diesel engine, cooling water	43 l	11.3 US gal
Diesel engine fuel tank	370 l	98 US gal
Traction gear	3 l	0.8 US gal
Lubrication tank (ECL)	10 l	2.6 US gal
D/F fluid tank (Tier 4 Final only)	24 l	6 US gal

DUST COLLECTOR DCT 200

	Metric	Imperial
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