

# POWERROC T50

Surface drill rig for limestone and cement quarrying, open pit mining, and aggregate quarrying.

Hole diameter: 102 – 152mm / 4" – 6"

Atlas Copco



# TRUSTFUL PERFORMER WITH STRIKING EFFICIENCY

EVERYTHING ABOUT THE POWERROC T50 SAYS PERFORMANCE AND EASE OF OWNERSHIP. ITS STRAIGHTFORWARD DESIGN AND ATLAS COPCO TECHNOLOGY PROVIDE YOU WITH HIGH PERFORMANCE AND RELIABILITY.

PowerROC T50 is developed and designed for the demanding applications of limestone and aggregate quarries, as well as mines. Thanks to the new-developed rock drill COP 3060, the PowerROC T50 provides high penetra-

tion rate. Meanwhile, the perfectly matched engine in either Tier 3 or Tier 4 provides more tons per liter fuel, which results in high efficiency and productivity, while conforming to your local emission standards.



## + MAIN BENEFITS

**Reliability** – tough, Atlas Copco quality

**High performance** – fast penetration rates give more meters per shift

**Easy and quick positioning** thanks to the extendable boom

# TRUSTFUL PERFORMER WITH STRIKING EFFICIENCY

THANKS TO ITS MODULAR DESIGN AND A HIGH DEGREE OF COMMONALITY WITH OTHER ATLAS COPCO PRODUCTS, RESERVE PARTS ARE ONLY A PHONE CALL AWAY THANKS TO OUR GLOBAL SERVICE NETWORK.



## + WORKING FASTER THAN YOU EXPECT

Our rigs are built tough. The PowerROC T50 is designed to operate in environments where productivity, durability, and availability are essential. Its straightforward design and power gives you a workhorse you can depend on year after year.



## + GET IT RIGHT THE FIRST TIME

Our rock drills are known for their high efficiency and constant hole bottom contact due to the double dampening system. Not only does PowerROC T50 have the powerful COP 3060 rock drill, we've also matched it with an Atlas Copco air compressor that provides sufficient amounts of air to ensure a high quality hole. The PowerROC T50 is also equipped with aluminium feed instead of a steel feed, for much straighter and more consistent holes.



## + PUT HOLES IN THE GROUND AND NOT IN YOUR POCKET

When it comes to work, the PowerROC T50 is all business and easy to own. Simplified hydraulic and electrical systems ensure easier operation and less downtime. All vital functions are at your fingertips for excellent drilling control. Because we understand that long work shifts can drain an operator's energy and productivity, for added comfort the cabin has great visibility, extra vibration dampers, and is ROPS- and FOPS- certified.

## 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 3300 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.



## TECHNICAL SPECIFICATIONS

### MAIN COMPONENTS

- Track frames with triple grouser pads, cleaning holes and hydraulic track oscillation and two speed traction
- Tier 3 (Stage IIIA) diesel engine / Tier 4 (Stage IV) diesel engine, CAT C9 / CAT C9.3
- Screw type air compressor
- Operator's cabin, ROPS and FOPS certified
- Extendable boom system
- Motor driven aluminium feed system
- Carousel type rod handling system
- Hydraulic rock drill
- Dust collection system

### ENGINE

CAT turbo charged, diesel engine C 9, Tier 3 / Stage IIIA		
Power rating at 1 800 rpm	261 kW	350 HP
CAT turbo charged, diesel engine C 9.3, Tier 4 / Stage IV		
Power rating at 1 800 rpm	261 kW	350 HP

### FEED

Feed extension	1 900 mm	6'3"
Feed rate, max	0.7 m/s	138 ft/min
Feed force, max	50 kN	11 240 lbf
Tractive pull, max	50 kN	11 240 lbf
Total length	9 370 mm	30'9"
Travel length	5 080 mm	16'8"

### DUST COLLECTOR

Filter area	20 m <sup>2</sup>	215 sq.ft
Number of filter elements	20 pcs.	
Cleaning air pressure, max	8.0 bar	116.0 psi
Cleaning air consumption	2-4 l/pulse	4-8 cfm

### HYDRAULIC SYSTEM

Hydraulic oil cooler		
Max ambient temperature	50°C	122°F

### HOLE RANGE

Type of drilling	Drill steel type	Drilling diameter		Max. hole depth		Drill steel length	
		mm	inch	m	feet	mm	feet
Single pass	T51, T-Wiz 60	102 - 152	4" - 6"	5.08	16'8"	4270/3660/6096	14'/12'/20'
Extension drilling				35	118'	4270 x 7	14' x 7
						3660 x 7	12' x 7

### HYDRAULIC ROCK DRILL

Rock drill	Impact power		Hydraulic pressure		Impact rate	Torque, max		Weight approx	
	kW	hp	bar	psi		Nm	lbf/ft	kg	lb
COP 3060	30 kW	40.2 hp	240 bar	3 481 psi	50 Hz	2 770 Nm	2 043 lbf/ft	355 kg	783 lb
			225 bar	3263 psi	43 Hz				

### COMPRESSOR

Atlas Copco C146, screw type air compressor		
Working pressure, max	10.5 bar	152 psi
FAD, at normal working pressure	232 l/s	492 cfm

### ELECTRICAL SYSTEM

Voltage	24 V
Batteries	2 x 12 V, 235 Ah
Alternator	24 V, 95 A
Work lights, front	4 x 70 W
Work lights, rear	2 x 70 W
Work lights, feed	2 x 70 W
Warning lamp and reverse alarm buzzer	

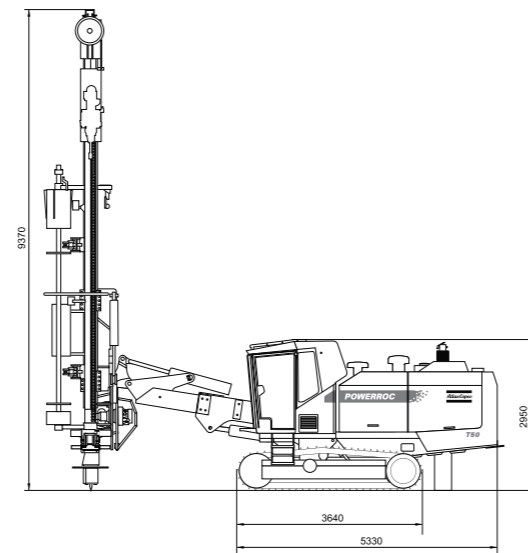
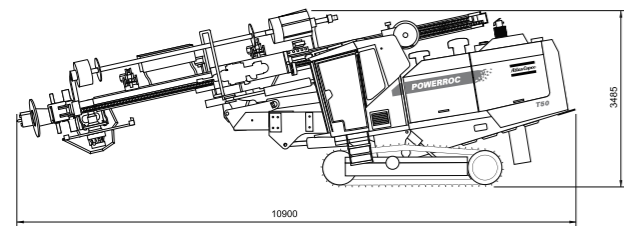
### VOLUMES

Hydraulic oil tank	380 l	100 US gal
Hydraulic system, total	470 l	124 US gal
Compressor oil	55 l	14.7 US gal
Diesel engine oil	32 l	8.4 US gal
Diesel engine, cooling water	51 l	13.5 US gal
Diesel engine, fuel tank	500 l	132 US gal
Traction gear	3 l	0.8 US gal
COP oil	7 l	1.85 US gal



**DIMENSIONS AND WEIGHT**

Transport dimensions		
Height	3 485 mm	11'5"
Length	10 900 mm	35'9"
Width	2 500 mm	8'2"
Feed height		
	9 370 mm	30'9"
Weight		
Tier 3 / Stage IIIA	22 200 kg	48 900 lb
Tier 4 / Stage IV	22 800 kg	50 220 lb



**OPTIONAL EQUIPMENT**

**Carrier**

- Hydraulic support leg
- Super rotation system
- Service hand lights inside canopy
- Combined warning sound and warning light, beacon type
- Engine air filter pre-cleaner
- Compressor air filter pre-cleaner
- Electric pump for filling hydraulic oil
- Electric fuel filling pump
- Fast fuel filling system
- Cold weather kit +5°C to -25°C, including diesel engine heater and compressor regulation heating kit
- Rock drill lubrication oil collection system

**Safety cabin**

- Radio
- Reverse camera with cab mounted monitor

**Hole measuring systems**

- 2D angle indicator
- 3D angle indicator

**Lube oil, lube system and water mist system**

- Central lubrication system
- Thread greasing device, spray system
- Artic hydraulic oil, VG 32
- Tropical hydraulic oil, VG 68
- Biological hydraulic oil, VG 46
- Water mist system with water pump and 400L water tank

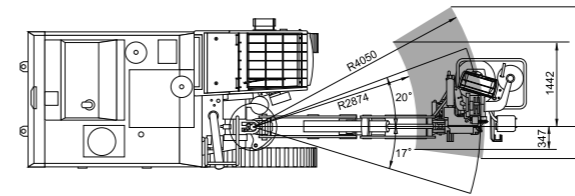
**Feed**

- Wide feed foot
- RHS for T51 - 12'/14' SPEEDROD
- RHS for T51 - 12'/14' with 72 mm coupling
- RHS for T-Wiz 60 - 12'/14' SPEEDROD
- RHS for T-Wiz 60 - 12'/14' with 85 mm coupling
- Sleeve retainer

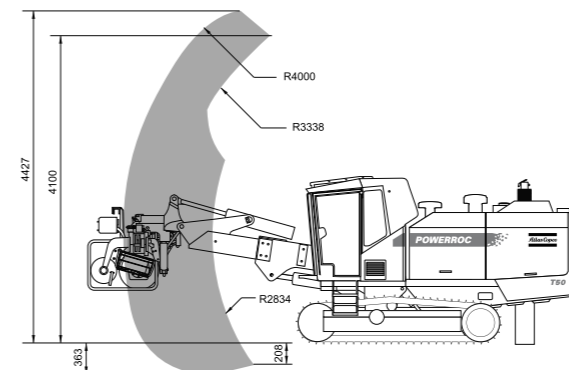
**Delivered equipment, not mounted**

- Conversion kit T51
- Conversion kit T-Wiz 60

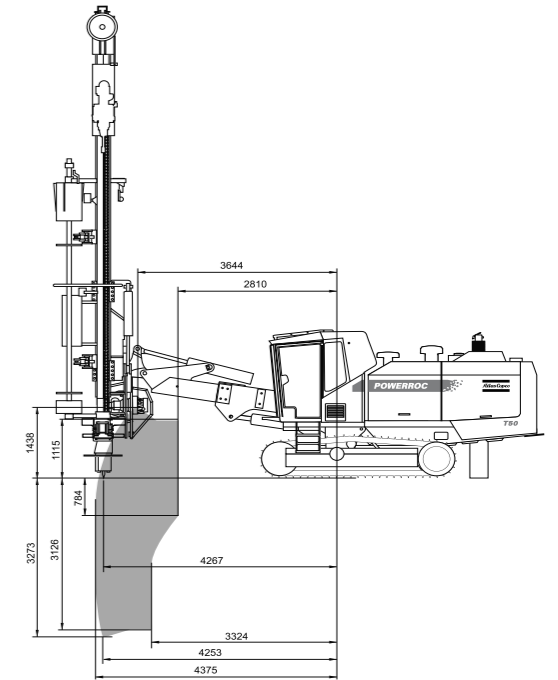
**COVERAGE AREAS AND SWING ANGLES**



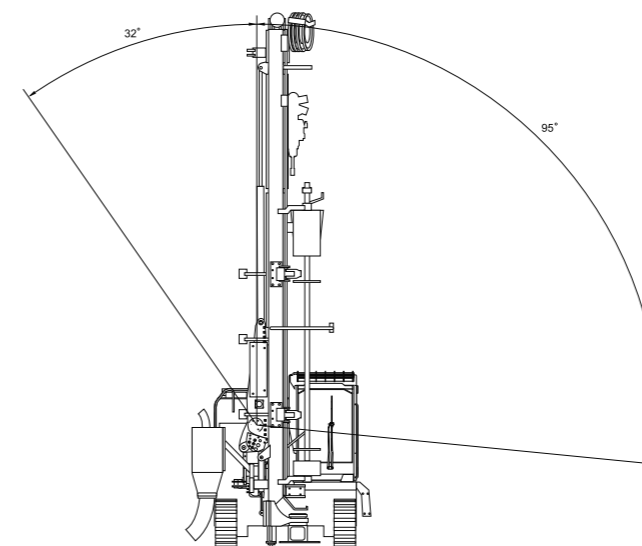
Horizontal reach (mm)



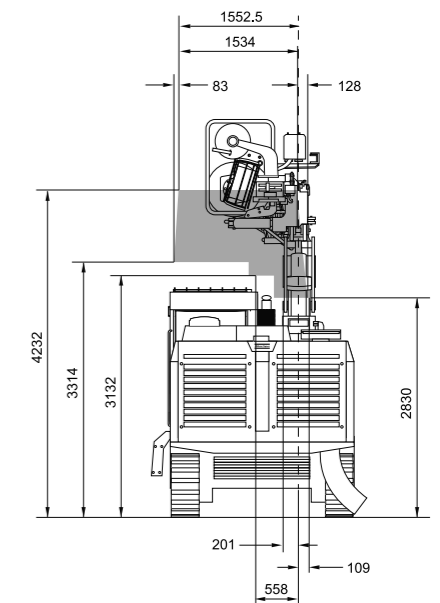
Horizontal hole drilling



Vertical reach (mm)



Feed swing angles



Rear view

## ***COMMITTED TO SUSTAINABLE PRODUCTIVITY***

We stand by our responsibilities towards our customers,  
towards the environment and the people around us.  
We make performance stand the test of time.  
This is what we call — Sustainable Productivity.

[www.atlascopco.com](http://www.atlascopco.com)

The Atlas Copco logo consists of the brand name "Atlas Copco" in a white, italicized serif font, centered between two horizontal white bars of equal length.