

**Atlas Copco** Surface drill rigs

# **FlexiROC T45**



## **Hole diameter**

89–127 mm (3 ½ "–5") - Folding boom

89-140 mm (3 ½ "–5 ½ ") - Fixed boom

*Sustainable Productivity*

*Atlas Copco*

# You have to see it to believe it

**As the name implies, the FlexiROC T45 is a highly flexible machine when it comes to a wide variety of applications. However, there are two things on which it never bends – fuel efficiency and high productivity. It's proven platform and innovative solutions enable the FlexiROC T45 to achieve twice the fuel efficiency as its successful forerunner the ROC F9, without losing power. Add to that a dependable construction that guarantees high availability, a wide range of use for big and small jobs alike as well as a cabin environment with the operator in mind.**

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## Main benefits

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### **Fuel efficiency**

Efficiency like never seen before with high productivity and low fuel consumption.

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### **Safety and ergonomomy**

Safety in mind and ergonomics on hand due to new cabin and rig design.

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### **Availability**

More uptime and drilling with less headaches, due to new rig design, components and assisted trouble shooting.

### **Cut your fuel costs in half**

Every detail of the FlexiROC T45 is designed and constructed to provide the highest possible fuel efficiency. Years of research and development work have really paid off. Field studies show that the FlexiROC T45, depending on rock conditions, uses up to 50% less fuel than other machines in its class. This is because Atlas Copco's new design effectively reduces energy losses without affecting productivity. The key to this fuel efficiency is a rig that only uses the amount of energy the work demands.

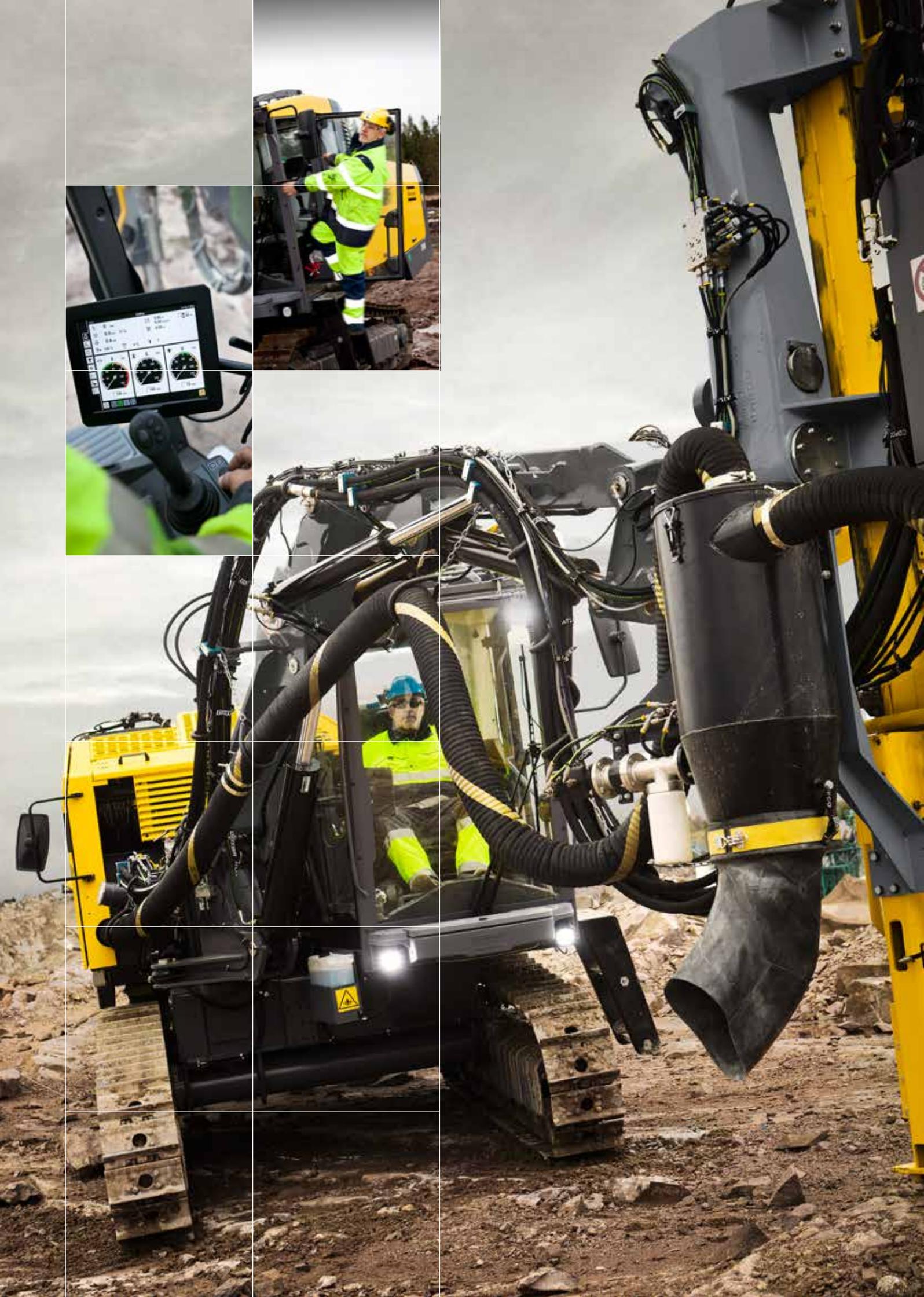
In addition to the standard automatic radiator fan, the speed of the engine and compressor are also adjusted automatically depending on the operating mode. When the rig is not working or tramming, three variable hydraulic pumps help reduce engine speed. Further, airflow and the speed of the dust particle separator can be adjusted by the operator as needed.



Atlas Copco

FLEXIROC

T45





### **Efficient and versatile in all conditions**

The FlexiROC T45 is a versatile and dependable top-hammer drill rig designed and constructed for high performance in construction work. It is also an efficient alternative for medium size open pit mines. Even in really tough terrain conditions, this rig can work effectively thanks to the reach of its long boom and low center of gravity. The FlexiROC T45 is equipped with proven and reliable COP 2560 on the folding boom version and COP 3060 on the fixed boom.

### **Complete control**

A world-class drill rig has to have a world-class cabin. A comfortable and efficient operator is crucial for maximum productivity. The clean lines of the FlexiROC T45 cabin are the result of a focus on ergonomic user-friendliness. Two multi-functional joysticks give the operator complete control over the work, and above all, we have added a new comfortable chair.

### **Availability based on innovation**

Compared to other rigs on the market, the FlexiROC T45 has 50% fewer hoses and 70% fewer couplings. The advantages are many. This design reduces the risk for leakage and because hydraulic functions and electronic modules are located in proximity to their function, the components are easier to get at for maintenance. Even more room for servicing is provided by a hydraulic tank that is 1/3 the standard size for its class.

### **Flexibility for long-term productivity and profit**

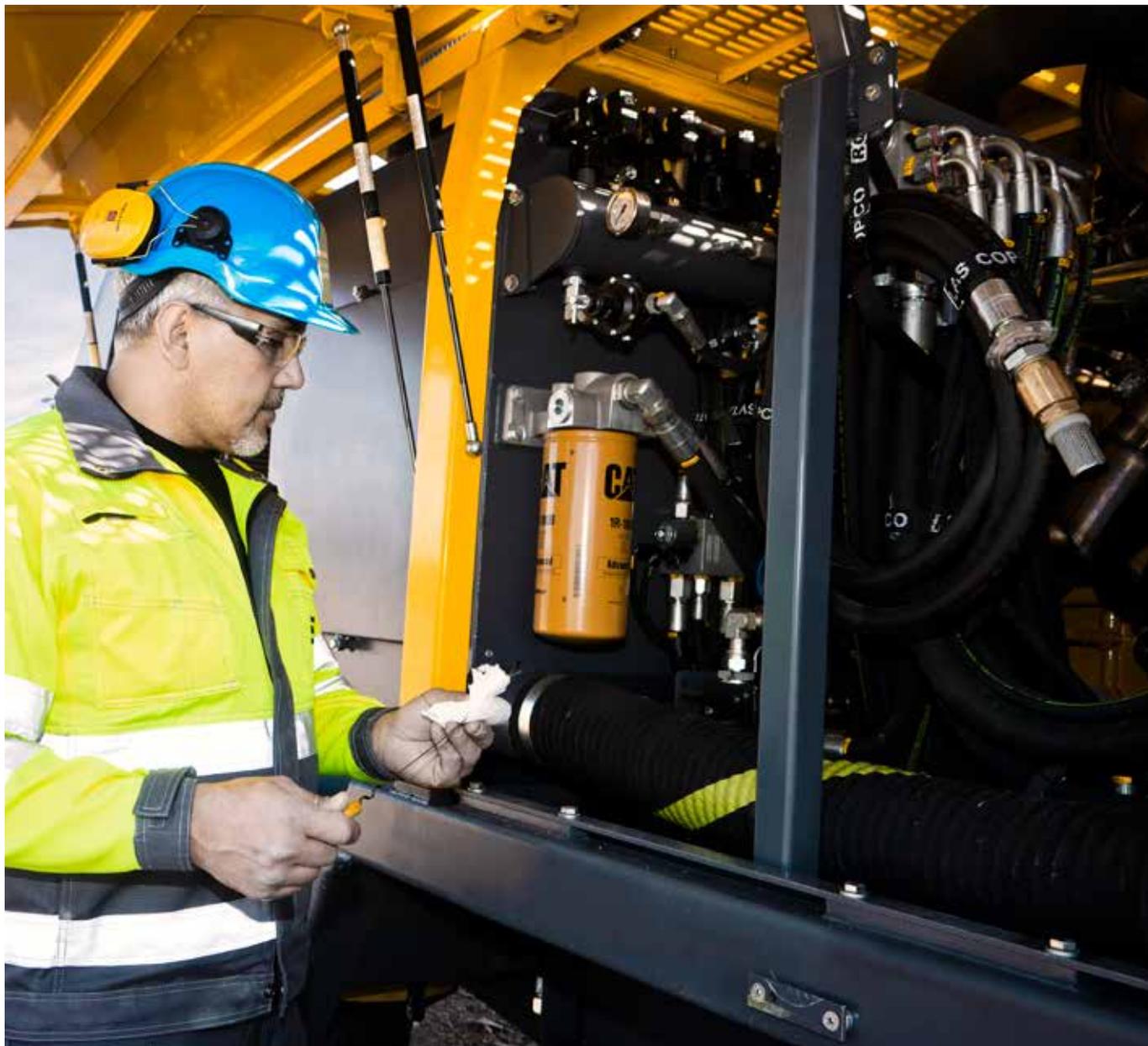
FlexiROC T45 is equipped with Atlas Copco's dependable and highly productive rock drill control system, COP Logic. Prepared for future upgrades, this is the market's most advanced system. An example of an available option is the proportional management of feed, torque, and impact enable the rig to drill more efficiently even under the most demanding conditions.

### **2 in 1**

FlexiROC T45 uses the proven and energy efficient COP series. These rock drills are really two machines in one, because they come with two impact adjustments that can change the impact energy level and frequency. The unique double dampening system increases the drill bit's contact with the drill surface for longer service life of the drill steel and straighter holes.

### **Fixed or folding boom**

While a folding boom brings you a wider coverage area, the fixed boom gives you the great possibility to drill with the robust and powerful rock drill COP 3060 and T60 drill string. This means deeper and straighter holes in large sizes, using 30 kW of tophammer power. Availability is also increased, with the COP 3060's longer service intervals.



### **Lighter and stronger**

The feed carrier in the fixed boom version is made from aluminium instead of steel. This means it's lighter and stronger to better withstand bending. The feeding is provided by a sturdier new style of chain, driven by a powerful hydraulic motor located in the feed base.

### **Efficiency with environmental care**

Atlas Copco's commitment to the environment is evident in everything we do. We want to maximize your productivity and save you money, at the same time as we leave as few printmarks as possible on the environment. That's why the SmartROC T45 gives you the most energy efficient rig in its class. Its hydraulic system uses significantly less oil, compared to other rigs, with a hydraulic tank that is 1/3 the standard size for its class. This means you can use biological oil with approximately the same cost as usual oil, and you don't have to worry about taking care of spillage.

### **Atlas Copco – a partner you can rely on**

With regular service, your machine will achieve its maximum productivity and dependability. Atlas Copco has developed a number of service solutions designed to meet your needs. They are all aimed at providing a service that ensures the best possible relationship between productivity, availability, and operational costs. We have over 4000 technicians throughout the world. They have the knowledge, the tools, and the original parts you need for a winning and profitable solution.



## Features (valid for both fixed and folding boom version)

1. Double hose drums with a slot for each hose extends the life of the hoses and does not require greasing.
2. LED lights and an optional rear camera provide high visibility of the surroundings.
3. Engine and compressor speed are automatically adjusted depending on operator mode.
4. Atlas Copco's rock drill control system COP Logic brings you great hole quality and penetration rate.
5. Two multifunctional joysticks and a comfortable chair. Operator friendly and ergonomic FOPS/ROPS cabin with great visibility.
6. Reduced number of hoses and couplings for better serviceability.



## Quick facts

### Main applications

Construction  
Aggregate Quarries  
Limestone Quarries

### Drilling method

Tophammer

### Rock drill

COP 2560 (Folding boom)  
COP 3060 (Fixed boom)

### Drill steel

T45, T51, or T60

### Maximum hole depth

28 m (92') (Folding boom)  
36 m (118') (Fixed boom)

### Hole diameter

89–127 mm (3½ – 5")  
89–140 mm (3½ – 5½")

### Engine power

Rating at 1900 rpm: 242 kw (325 HP)

### Rock drill output power

COP 2560: 25 kw (33.5 HP)  
COP 3060: 30 kw (41 HP)

### Free air delivery at 12 bar

223 l/s (472 cfm)

## Selection of options

### Pre-filtering increases service-life

Pre-filtering reduces risk of contamination in the heaviest environments and increases service life of main filters.

### Reverse camera increases safety

The reverse camera provides the operator with a rear view impossible to achieve with regular mirrors. It increases visibility when tramping backwards.

### GPS Compass increases hole quality

The GPS Compass ensures the best result when setting the blasting direction and parallelism in blast holes, particularly important when drilling inclined holes.

Noise and vibrations levels - FlexiROC T45	
A-weighted sound power level in decibel (ref. 1 pw). Single value declaration	127
A-weighted sound pressure level at work station in decibel (ref. 20 mPa). Double value declaration	78 +/- 3
A-weighted sound pressure level at 1 m distance in decibel (ref. 20 mPa). Double value declaration	NA
Weighted whole body vibration level (m/s <sup>2</sup> ) (Double value declaration)	0.2 +/- 0.1