FLEXIROC T45

Surface drill rig for quarry and construction.

Folding boom
Hole diameter: 89–127 mm (3½”– 5”)

Fixed boom
Hole diameter: 89–140 mm 3 ½”– 5 ½”
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 ITS PREDECESSOR THE ROC F9 – WITHOUT LOSING POWER. THIS IS BECAUSE ATLAS COPCO’S NEW DESIGN EFFECTIVELY REDUCES ENERGY LOSSES WITHOUT AFFECTING PRODUCTIVITY.

The FlexiROC T45 only uses the exact amount of energy that the work demands. Add to that a dependable construction that guarantees high availability, a wide range of use and a cabin environment with the operator in mind – and you’ve got a machine that will give you the lowest possible costs and the least amount of headaches per cubic meter produced.
MAIN BENEFITS

- **Lowest possible fuel consumption** and highest possible fuel efficiency
- **Continuously delivers result** due to robust hydraulics and reliable control system
- **High availability guaranteed** thanks to the dependable construction
EFFICIENT AND VERSATILE IN ALL CONDITIONS

THE FLEXIROC T45 IS DESIGNED AND CONSTRUCTED FOR HIGH PERFORMANCE IN CONSTRUCTION WORK. IT IS ALSO AN EFFICIENT ALTERNATIVE FOR MEDIUM SIZE OPEN PIT MINES. EVEN IN THE WORST TERRAIN CONDITIONS, THIS RIG CAN WORK EFFECTIVELY THANKS TO THE REACH OF ITS LONG BOOM AND LOW CENTRE OF GRAVITY.

+ FLEXIBILITY FOR LONG-TERM PRODUCTIVITY
The FlexiROC T45 is equipped with Atlas Copco’s dependable and highly productive rock drill control system, COP Logic. Upgradable and prepared for the future, this is the market’s most advanced system. A proportional management of feed, torque, and impact enable the rig to drill more efficiently even under the most demanding conditions.

+ BUILT TO PROTECT YOUR CORE BUSINESS
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.

+ LESS IS MORE
Compared to other rigs on the market, the FlexiROC T45 has 50% fewer hoses and 70% fewer couplings. The advantages are many. This construction 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.

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.
### MAIN COMPONENTS
- Crawler type two speed undercarriage with track oscillation system
- Caterpillar turbo charged diesel engine
- Atlas Copco screw type compressor
- Dust pre separator
- Combined warning sound and warning light
- Fixed boom system/folding boom system
- Air flow switch
- Rock drill lubrication system

### HYDRAULIC ROCK DRILL

<table>
<thead>
<tr>
<th>Rock drill</th>
<th>Drill rig</th>
<th>Impact power</th>
<th>Hydraulic pressure, max</th>
<th>Impact rate, max</th>
<th>Torque, max</th>
<th>Weight approx</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 2560+</td>
<td>FlexiROC T45 folding boom</td>
<td>25 kW</td>
<td>33.5 HP</td>
<td>230 bar</td>
<td>3,355 psi</td>
<td>44 Hz</td>
</tr>
<tr>
<td>COP 2560EX+</td>
<td>FlexiROC T45 folding boom</td>
<td>30 kW</td>
<td>41 HP</td>
<td>240 bar</td>
<td>3,481 psi</td>
<td>50 Hz</td>
</tr>
</tbody>
</table>

### FEED FLEXIROC T45 WITH FIXED BOOM

<table>
<thead>
<tr>
<th>Feed extension</th>
<th>Hydraulic cylinder feed with hose guide and double drill steel support with moveable lower guide/dust hood</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,500 mm</td>
<td>6” 3”</td>
</tr>
</tbody>
</table>

### FEED FLEXIROC T45 WITH FOLDING BOOM

<table>
<thead>
<tr>
<th>Feed extension</th>
<th>Hydraulic chain driven steel feed with hose guide and double drill steel support with moveable lower guide/dust hood</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,500 mm</td>
<td>6” 3”</td>
</tr>
</tbody>
</table>

### DUST COLLECTOR DCT 200

<table>
<thead>
<tr>
<th>Filter area</th>
<th>Number of filter elements</th>
<th>Suction capacity at 500 mm wg</th>
<th>Suction hose diameter</th>
<th>Cleaning air pressure, max</th>
<th>Cleaning air consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 m²</td>
<td>20 pcs</td>
<td>540 l/s</td>
<td>127 mm</td>
<td>7.5 bar</td>
<td>2.4 l/pulse</td>
</tr>
</tbody>
</table>

### VOLUMES

<table>
<thead>
<tr>
<th>Hydraulic oil tank</th>
<th>Hydraulic system, total</th>
<th>Compressor oil</th>
<th>Diesel engine oil</th>
<th>Diesel engine, cooling water</th>
<th>Diesel engine fuel tank</th>
<th>Traction gear</th>
<th>Lubrication tank (ECL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 l</td>
<td>240 l</td>
<td>52 l</td>
<td>32 l</td>
<td>75 l</td>
<td>400 l</td>
<td>3 l</td>
<td>23 l</td>
</tr>
</tbody>
</table>

### AIR CONDITIONER

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Cooling capacity</th>
<th>Fan suction capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>R134a</td>
<td>5.5 kW</td>
<td>125 l/s</td>
</tr>
</tbody>
</table>

### ELECTRICAL SYSTEM

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Batteries</th>
<th>Alternator</th>
<th>Work lights LED type, front</th>
<th>Work lights LED type, rear</th>
<th>Work lights LED type, feed</th>
<th>Warning lamp and reverse buzzer</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 V</td>
<td>2 x 12 V, 185 Ah</td>
<td>28 V, 105 Ah</td>
<td>4 x 3500 Lumen</td>
<td>2 x 3500 Lumen</td>
<td>2 x 5300 Lumen</td>
<td>223 l/s</td>
</tr>
</tbody>
</table>

### COMPRESSOR

<table>
<thead>
<tr>
<th>Atlas Copco C146-07, screw type compressor</th>
<th>Working pressure, max</th>
<th>FAD, at normal working pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 bar</td>
<td>174 psi</td>
<td>223 l/s</td>
</tr>
</tbody>
</table>

### HYDRAULIC SYSTEM

<table>
<thead>
<tr>
<th>Hydraulic oil cooler</th>
<th>Max ambient temperature</th>
<th>Pumps at 1900 rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>50°C</td>
<td>122°F</td>
<td>Metro</td>
</tr>
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TECHNICAL SPECIFICATIONS

FlexiROC T45

Double hose drums with a slot for each hose extends the life of the hoses and does not require greasing.

Ergonomic FOPS/ROPS cabin with great visibility and that is easy to operate.

Proven COP 2560 supported by COP Logic rock drill control system.

Reduced number of hoses and couplings for better serviceability.

SAFETY CABIN

- ROPS and FOPS approved with rubber vibration dampers
- 2 x wipers with washer
- Clear laminated glass (front and roof windows)
- Clear toughened glass (side and rear windows)
- Fully adjustable operator’s seat
- Adjustable foot rest
- Cabin light

- Rig inclination indicator
- Rear view mirror
- Fire extinguisher, 6 kg (13 lbs) dry chemical type ABE class III type
- Outlet socket, 24 V
- Prepared with speakers for radio/CD
- Combined front mounted platform/tool box
- Electric combined engine/inclination/hole depth instrument in main computer display

HEIGHT AND LENGTH

<table>
<thead>
<tr>
<th></th>
<th>Metric</th>
<th>Imperial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed boom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height (H1)</td>
<td>3 300 mm</td>
<td>10’ 8”</td>
</tr>
<tr>
<td>Length (L1)</td>
<td>10 700 mm</td>
<td>35’ 2”</td>
</tr>
<tr>
<td>Folding boom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height (H2)</td>
<td>3 300 mm</td>
<td>10’ 8”</td>
</tr>
<tr>
<td>Length (L2)</td>
<td>13 300 mm</td>
<td>43’ 8”</td>
</tr>
</tbody>
</table>

WEIGHT

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<tr>
<th></th>
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<th>Imperial</th>
</tr>
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<tbody>
<tr>
<td>FlexiROC T45 fixed boom</td>
<td>19 600 kg</td>
<td>43 200 lb</td>
</tr>
<tr>
<td>FlexiROC T45 folding boom</td>
<td>17 500 kg</td>
<td>38 600 lb</td>
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</tbody>
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**TECHNICAL SPECIFICATIONS**

**Carrier**
- Hydraulic support leg
- Hydraulic winch, radio remote controlled with towing eye and wire guides
- Electric refuelling pump
- Track chains with single/triple grouser pads
- Extra LED work lights
- Water mist system, 225 l

**Safety cabin**
- Clear laminated glass (front and roof windows)
- Tinted toughened glass (side and rear windows)
- Wiper for right hand side window
- Sun shade kit (rear side and rear windows)
- Radio/CD
- Reverse camera

**Feed**
- Wide feed foot
- TAC guide tube guides for drill steel support
  - TAC 64 mm for 64 mm guide tube
  - TAC 76 mm for 76 mm guide tube
  - TAC 87 mm for 87 mm guide tube

**Hole measuring systems**
- Laser receiver upgrading kit
- GPS compass for parallel holes

**Lubrication**
- Central lubrication system, type HydroScand
- Thread greasing devise ECG (with oil)
- Thread greasing device, brush type (with grease)
- PAR Oil S
- PAR Oil M

**Environment conditions**
- Diesel driven engine heater
- Arctic hydraulic oil, VG 32
- Tropical hydraulic oil, VG 68
- Biological hydraulic oil, VG 46

**Delivered equipment, not mounted**
- Gas charging equipment for rock drill
- First 50 hours service kit for compressor
- Conversion kit T45
- Conversion kit T51
- Conversion kit T60
- ROC Manager with bench plan
- RCS service tool box
- Electrical tool kit

**Rock Drill control system**
- Progressive COP Logic

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**Selection of Options**

**Environment conditions**
- Diesel driven engine heater
- Arctic hydraulic oil, VG 32
- Tropical hydraulic oil, VG 68
- Biological hydraulic oil, VG 46

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**Rock Drill control system**
- Progressive COP Logic
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.

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