**FLEXIROC D50, D55**

Surface drill rigs for limestone and aggregate quarries, surface mining and construction.

- **FlexiROC D50**
  - Hole diameter 90 –130 mm (3 1/2”– 5 1/8”)

- **FlexiROC D55**
  - Hole diameter 90 –152 mm (3 1/2”– 6”)

*Atlas Copco*
EFFICIENT VERSATILITY

THANKS TO A SOLID COMBINATION OF VERSATILITY AND EFFICIENCY, THE ATLAS COPCO FLEXIROC D50 AND FLEXIROC D55 ARE EQUALLY AT HOME IN THE QUARRY OR THE MINE. THESE RIGS PROVIDE THE OPTIMUM COMBINATION OF AIR FLOW AND AIR PRESSURE FOR THE HIGHEST DRILLING ECONOMY AND PRODUCTIVITY.

Built on a proven platform to ensure the highest efficiency, a short feed allows these workhorses to excel not only in production drilling, but also in auxiliary drilling such as toe-hole drilling.

A reliable Atlas Copco DTH hammer and a matching powerful air compressor is a proven and effective team even in the toughest mining conditions.

MAIN BENEFITS

- **High productivity** thanks to the robust and powerful feeding system
- **Availability and serviceability** due to high degree of parts commonality
- **Durability** based on proven mining design
EFFICIENT VERSATILITY IN QUARRIES AND MINES

BUILT ON A PROVEN PLATFORM TO ENSURE THE HIGHEST EFFICIENCY, A SHORT FEED ALLOWS THESE WORKHORSES TO EXCEL NOT ONLY IN PRODUCTION DRILLING, BUT ALSO IN AUXILIARY DRILLING SUCH AS TOE-HOLE DRILLING.

+ BASED ON PROVEN KNOWLEDGE IN TWO FIELDS
A reliable DTH hammer combined with a powerful air compressor is a proven and effective team even in the toughest mining conditions. As a world leader in both air compressors and mining equipment, Atlas Copco has equipped both the FlexiROC D50 and the FlexiROC D55 with advanced DTH technology to deliver straight, smooth holes; and robust compressors for plenty of air to keep the hole clean even in the most extreme conditions.

+ MORE TIME ON THE JOB - HIGHER PRODUCTIVITY
The FlexiROC D50 and FlexiROC D55 have long service intervals, few parts, and a high degree of service and parts commonality with other Atlas Copco products. Two examples of shared design are the heavy duty chain feeding system and the robust and fast rod handling system. We provide the security and peace of mind, so you can concentrate on your profit and growth.

+ UNIFORM FEEDING
Atlas Copco’s FlexiROC DTH family ensures smooth and uniform feeding regardless of rock condition. The aluminum feed profile means harmful vibrations are reduced to a minimum; thus achieving optimum transmission of each percussive blow to fresh rock and more productive drilling. No more wasted air!

ATLAS COPCO SERVICE

Even the best equipment requires regular service to ensure optimal performance. Atlas Copco provides service solutions to safeguard an optimized team even in the toughest mining conditions. As a world leader in both air compressors and mining equipment, Atlas Copco has equipped both the FlexiROC D50 and the FlexiROC D55 with advanced DTH technology to deliver straight, smooth holes; and robust compressors for plenty of air to keep the hole clean even in the most extreme conditions.

TECHNICAL SPECIFICATIONS

MAIN COMPONENTS
- Crawler type two speed undercarriage with track oscillation system
- Operator’s cabin, ROPS and FOPS approved with rubber vibration dampers
- Single section boom system
- Toe hole drilling capability
- Canoless tunnel tube handling system
- Pressure regulated break-out table
- Service hand lights inside canopy

HOLE RANGE
- Transm. power (DTH hammer and hole range) Metric, Imperial
  - FlexiROC D50
    - 39 kW, COP 44 (44)
    - 55 hp, 190 ft-lb
  - FlexiROC D55
    - 44 kW, COP 44 (44)
    - 59 hp, 219 ft-lb
- Hydraulic tube handling system for max hole depth, with 5 m (16.4) tubes
  - FlexiROC D50 and D55
    - 97.6 - 192 m (32 - 630 ft)
    - 0.6 - 0.9 m (2 - 3 ft) tubes
  - Single pass drilling, max hole depth
  - FlexiROC D50 and D55
    - 0.4 - 8 m (0.13 - 26.2 ft)

ENGINE
- FlexiROC D50
  - CAT C13, 4-cylinder turbo charged, diesel engine, Tier 2 (CARB 80), Stage IV
  - Power rating at 1800 rpm
    - 275 kW (370 HP)
  - Power rating at 1500 rpm
    - 265 kW (360 HP)
- FlexiROC D55
  - CAT C15, 6-cylinder turbo charged, diesel engine, Tier 2 (CARB 80), Stage IV
  - Power rating at 1800 rpm
    - 328 kW (440 HP)
  - Power rating at 1500 rpm
    - 315 kW (425 HP)

COMPRRESSOR
- FlexiROC D50
  - Atlas Copco XRX 10, two stage screw type compressor
  - Pressure, max 30 bar (435 psi)
  - Air flow, max 354 l/s (729 cfm)
- FlexiROC D55
  - Atlas Copco XRX 12, two stage screw type compressor
  - Pressure, max 25 bar (363 psi)
  - Air flow, max 395 l/s (867 cfm)

HYDRAULIC SYSTEM
- Max operating temperature Metric, Imperial
- 54°C (129°F)
- Fluids
  - Axial piston pump (1) 120 l/min (26 US gal/min)
  - Gear pump (2) 117 l/min (31 US gal/min)
  - Gear pump (3) 63 l/min (16.6 US gal/min)
  - Gear pump (4) 39 l/min (10.3 US gal/min)
  - Gear pump (5) 39 l/min (10.3 US gal/min)
  - Gear pump (6) 39 l/min (10.3 US gal/min)

ELECTRICAL SYSTEM
- Voltage
  - 24 V
- Batteries
  - 2 x 12 V, 235 Ah
- Alternator
  - 21 kW (28 HP)
- Work lights, forward
  - 2 x 70 W
- Work lights, rear
  - 2 x 70 W
- Work lights, side
  - 2 x 70 W
- Warning lamp and reverse buzzer
- Fan suction capacity
  - 270 m³/h (969 cfm)

AIR CONDITIONER
- Refrigerant
  - R134a
- Cooling capacity
  - 1.5 kW
- Thermal capacity
  - 3 kW

DUST COLLECTOR
- Nameplate data
  - MAX DUST COLLECTOR
    - Dust exhauster
    - 360 rpm
    - 3,080 m³/h
  - Dust filter
    - 8,000 m²
  - Cleaning air consumption
    - 2.4 l/pulse
  - Cleaning air consumption
    - 8 l/pulse
  - Cleaning air consumption
    - 2.4 l/pulse
  - Cleaning air consumption
    - 8 l/pulse

VOLUMES
- Nameplate data
  - Max volume
    - 10 m³/h
  - 344 cfm

ALUMINUM FEED
- Aluminium feed profile
  - Inside canopy
    - 32 pcs
  - Feed hand light
    - 32 pcs
  - Feed hand light
    - 32 pcs
  - Feed hand light
    - 32 pcs

CARFERR
- Main components
  - Metric, Imperial
  - Transmission: Metric
    - 112 mm (4.4")
  - Transmission: Imperial
    - 45 mm (1.8")

ROTARY HEAD
- Rotary head
  - Connection thread
    - AR 2 7/8", 6G, hex
    - 1.939
  - AR 3 1/2", 6G, hex
    - 1.939
SAFETY CABIN

- ROPS and FOPS approved with rubber vibration dampers
- Fire extinguisher 6 kg (13 lbs) dry chemical ABE class III type
- 2 x wipers with washer (front and roof windows)
- Clear laminated glass (front and roof windows)
- Clear toughened glass (side and rear windows)
- Fully adjustable operator’s seat, cabin light, rear view mirror
- Outlet socket 24 V, rig inclination indicator
- Combined front mounted platform/tool box
- Electric combined inclination/hole depth instrument

HEIGHT AND LENGTH

<table>
<thead>
<tr>
<th>Metric</th>
<th>Metric (without options)</th>
</tr>
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<tbody>
<tr>
<td>Length (L1)</td>
<td>11 350 mm (37' 2&quot;)</td>
</tr>
<tr>
<td>Height (H1)</td>
<td>3 500 mm (11' 5&quot;)</td>
</tr>
<tr>
<td>Feethight (H)</td>
<td>9 400 mm (31&quot;)</td>
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</tbody>
</table>

WEIGHT

<table>
<thead>
<tr>
<th>Metric</th>
<th>Metric (without options)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FlexiROC D50</td>
<td>21 300 kg (46 900 lbs)</td>
</tr>
<tr>
<td>FlexiROC D55</td>
<td>22 500 kg (49 600 lbs)</td>
</tr>
</tbody>
</table>

SAFETY CABIN

- Rubber ladder for left hand side
- Clear laminated glass (front and roof windows)
- Tinted toughened glass (side and rear windows)
- Sun shade kit
- Electric heated operator’s seat
- Reverse camera with cab mounted monitor. May also be used for monitoring DVD

FEED

- Rod handling system 140
- Screw sampler
- Service winch with jb boom-mounted on the feed
- While feed foot
- Break out table pressure regulating kit
- Protective guard, according to EN 6229

WATER MIST SYSTEM

- Water mist system including 225 liters pressurized tank
- Water mist system with water pump and 400 liters water tank
- Water mist system, insulated for arctic conditions, with water pump and 400 liters tank

LUBRICATION

- Central lubrication system, type Lincoln
- Arctic hydraulic oil, VG 32
- Tropical hydraulic oil, VG 68
- Biological hydraulic oil, VG 46

HOLE AND INCLINATION SYSTEMS

- Adding aiming unit function to standard instrument
- GPS compass
- Laser receiver

AUTOMATION AND SOFTWARE

- Production log for ROC Manager
- ROCCare
- ProCom satellite based drill rig monitoring system (only in combination with a written service agreement)

PARTS AND SERVICES PRODUCTS

- First 50 hours service kit for compressor
- Tool kit for rotary head with fixed spindle sub
- Tool kit for rotary head with floating spindle sub
- Lubrication

DELIVERED EQUIPMENT, NOT MOUNTED

- ROC Care
- ProCom satellite based drill rig monitoring system (only in combination with a written service agreement)

DELIVERED EQUIPMENT, NOT MOUNTED

- ROC Care
- ProCom satellite based drill rig monitoring system (only in combination with a written service agreement)
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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