

AirROC T35 and D50

Tophammer and Down-The-Hole drill rigs





Pioneer strength and agility

AirROC T35, the top-hammer medium size air drill rig, with its unique VL 140 pneumatic rock drill is the pathfinder opening new horizons of drill efficiency. AirROC D50 is a Down-The-Hole drill

rig, which can work with ease on steep grades and the roughest terrain. These machines are suitable for limestone, aggregate quarries and surface mining applications.

⊕ Main benefits

The unique VL 140 rock drill takes up to 102 mm (4") hole diameter

Application compatibility due to interchangeability between top-hammer and Down-The-Hole (DTH)

Transportation is made easier by fixed length boom and drill width

Rugged efficiency

Construction work or fine quarry drill work, these rugged drill rigs navigate steep climbs and rough terrain efficiently. The Atlas Copco air compressor ensures fast and efficient drilling, and keeps going on for longer working hours. Servicing, when needed is a quick one-man task.



+ Effectiveness built in

Tramming is effected by features like independent 11 hp piston air motor per track and an enclosed gear drive. Forward or reverse movement, the spring applied disc brakes always remain effective. Hydraulically cushioned track oscillation absorbs the shock loads and the oscillation may be locked out when a solid setup for drilling is desirable. A simple trap door centralizer is accessed at the touch of a foot.



+ Unique rock drill and rotation units

The unique Epiroc VL 140 air rock drill with a new cycle and piston design has a positive effect on the drill efficiency. Down the hole tasks are covered by BRH rotation units or by the ARH rotation units depending on the drill hole size. The ARH unit works a planetary gearbox, driven by a high power air vane motor for bigger holes.



+ Easy control – ample power

Side mounted tramming controls provide easy access. During compressor towing a safety lockout switch blocks reverse motion. Hole collaring is made operator convenient by a fine feed regulator and prevents stuck steels. A piston type air feed motor drives a heavy roller chain, providing sufficient pullout power, and all the pull down ever need in drilling.

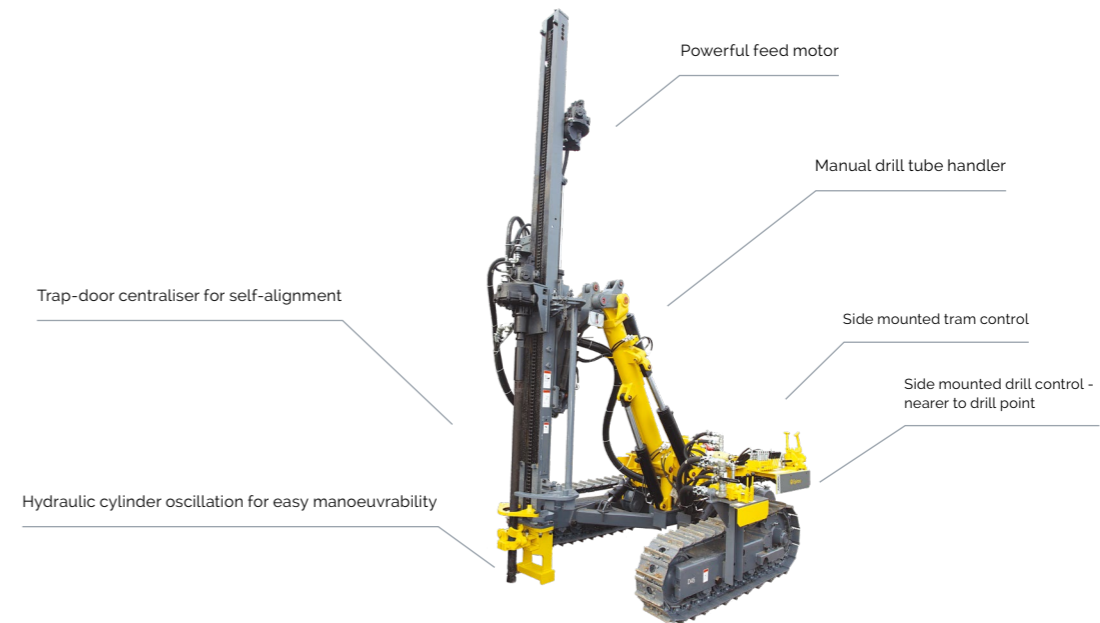
A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity – wherever you are.



Technical specifications



Main components

- Pneumatic operated hydraulic power pack for hydraulic cylinders
- Pneumatic operated chain feed for 3 000 mm (10 ft.) drill tubes for AirROC D50
- Pneumatic powered traction motors
- Pneumatic operated chain feed for 3 000-3610 mm (10-12 ft.) extension rods for AirROC T35
- Track chains with 260 mm track shoes
- Manual drill steel support
- Hydraulic track oscillation
- Side-mounted drilling control panels
- Towing hook
- Side-mounted tramming and positioning controls
- 20 Bar for AirROC D50 air line and oil lubrication system
- Extra air outlet for cleaning or running air tools (e.g. grinding equipment)
- Standard boom system

Quick facts

| | |
|--------------------|--|
| Main application: | Limestone quarries, surface mining, aggregate quarries |
| Drilling method | Down the hole, Tophammer |
| DTH hammer | QL 40, QL 50 STD, COP 44 |
| Rock drill | VL 140 |
| Drill steel | DTH 76 mm, 89 mm, 102 mm, Tophammer T38, T45 |
| Hole diameter | DTH 105-140 mm, Tophammer 64-102 mm |
| Maximum hole depth | DTH 29.4 m, Tophammer 15 m |

Carrier

| | Metric | US |
|--|----------|-----------|
| Tramming speed, max | 3.0 km/h | 2.86 mph |
| Traction force, max | 32.5 kN | 7 306 lbf |
| Track oscillation | ±10° | ±10° |
| Ground clearance | 254 mm | 10" |
| Hill climbing ability 30 deg max. (w/o compressor) | | |

Volumes

| | Metric | US |
|-------------------------|--------|----------|
| Hydraulic oil tank | 57 l | 15 gal |
| Hydraulic system, total | 62 l | 16.4 gal |
| Traction gear | 2 l | 0.53 gal |
| Lubrication tank (HECL) | 76 l | 2 gal |

All performance parameters above are valid for 7 bar air pressure

Hole range

| Drill Rig | Pipe size | | Recommended hole range | |
|------------|----------------|--------------|------------------------|-------------|
| | Metric | US | Metric | US |
| AirROC T35 | 38, 45 mm | 1 ½", 1 ¾" | 64 -102 mm | 2 ½" - 4' |
| AirROC D50 | 76, 89, 102 mm | 3", 3 ½", 4" | 105 -140 mm | 4 ¼" - 5 ½" |

Steel feed

| AirROC T35, AirROC D50 – Pneumatic-driven chain feed | | |
|--|----------|-------------|
| | Metric | US |
| Feed extension | 1 219 mm | 48' |
| Feed rate, max | 0.25 m/s | 49.2 ft/min |
| Feed force, max | 21 kN | 4 720 lbf |
| Tractive pull, max | 14 kN | 3 372 lbf |
| Total length | 5 750 mm | 226.3' |
| Travel length | 4 250 mm | 167.3' |

Air consumption and compressor recommendation

| Component | Production country | Operating pressure (bar) | Air consumption (l/sec) | AirROC T35 | AirROC D50 | | | | | | | | |
|--|--------------------|--------------------------|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | | | 10.3 bar | | 13.8 bar | | 17.2 bar | | | | |
| Tophammer | | | | | | | | | | | | | |
| VL 140 | India | 7 | 250 | 250 | 250 | | | | | | | | |
| Flushing | | | | | | | | | | | | | |
| Drill steel T30 | | | | 70 | | | | | | | | | |
| Drill steel T45 | | | | 80 | | | | | | | | | |
| DTH hammers | | | | | | | | | | | | | |
| TD 35 | Sweden/India | 10.3/13.8/17.2 | 103/135/163 | | 103 | | | | 135 | | | 163 | |
| QL 40 | USA/India | 10.3/13.8/17.2 | 116/160/206 | | | 116 | | | 160 | | | 206 | |
| COP 44 | Sweden/India | 10.3/13.8/17.2 | 95/135/182 | | | 95 | | | 135 | | | 182 | |
| COP 54 | Sweden | 10.3/13.8/17.2 | 140/200/275 | | | | 140 | | | 200 | | 275 | |
| Chain feed | | | | | | | | | | | | | |
| DD6 FM1+CMFM | India | 7 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | |
| Rotation unit | | | | | | | | | | | | | |
| BRH/ARH | India | 7 | 61 | | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | |
| Total air consumption excl. DCT | | | | 372 | 382 | 216 | 229 | 208 | 253 | 248 | 273 | 248 | 313 |
| Compressor recommendation | | | | | | | | | | | | | |
| XAMS 426/926 (Mercedes/CAT) | 7 | 416 | x | x | | | | | | | | | |
| XAH 210 (Cummins) | 10.5 | 214 | | | (x) | | (x) | (x) | | | | | |
| XAHS 675 (Cummins) | 12 | 318 | | | x | x | x | x | | | | | |
| XXAVS 600 (Cummins) | 14 | 283 | | | | | | | x | (x) | (x) | x | |
| XAHS 236/506 (Mercedes/CAT) | 12 | 235 | | | (x) | (x) | x | | | | | | |
| XAHS 306/676 (Mercedes/CAT) | 12 | 317 | | | x | x | x | x | | | | | |
| Dust collector | | | | | | | | | | | | | |
| DCT 60 | India | 6 | 25 | 25 | 25 | | | | | | | | |
| DCT 140E | India | 6 | 65 | | | 65 | 65 | 65 | 65 | | | | |
| Total air consumption incl. DCT | | | | 397 | 407 | 281 | 294 | 273 | 318 | | | | |
| Compressor recommendation | | | | | | | | | | | | | |
| XAMS 426/926 (Mercedes/CAT) | 7 | 416 | x | (x) | | | | | | | | | |
| XAHS 675 (Cummins) | 12 | 318 | | | x | (x) | x | x | | | | | |
| XAHS 306/676 (Mercedes/CAT) | 12 | 317 | | | x | (x) | (x) | (x) | | | | | |
| XAHS 416/836 (Mercedes/CAT) | 12 | 416 | | | | | | | x | | | | |

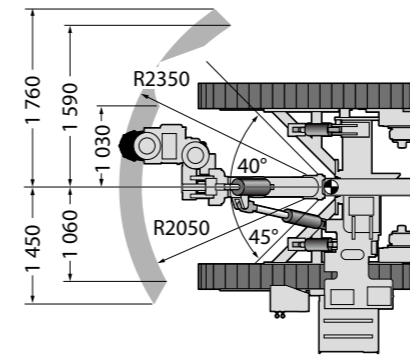
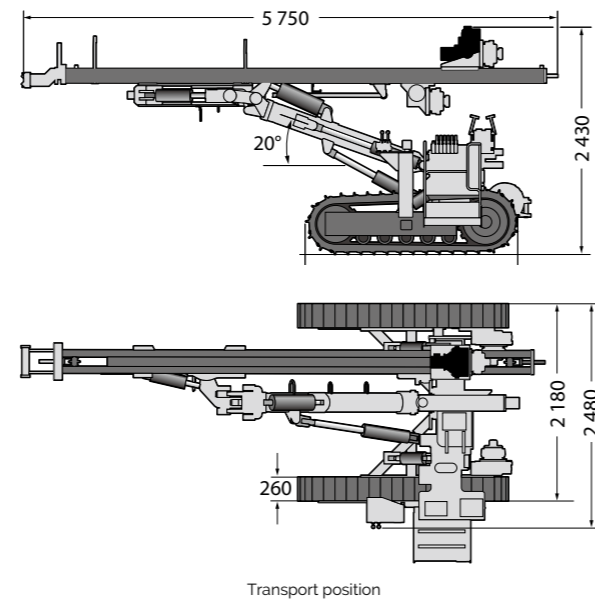
Note (x) on the margin. Air consumptions given are required volume for the respective hammer/drifter/DCT to function – additional volume of air required for flushing can vary. This depends on drilling depth and rock formation.

Selection of options

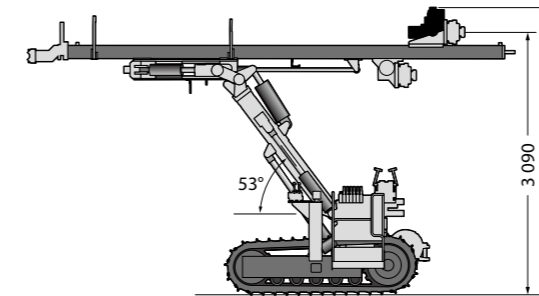
- Mechanical hole inclination instrument, type ROC ANGIE
- Water injection system with pneumatic pump
- Water mist flushing system with pressurised tank
- Dust collector DCT 140 with rubber dust outlet - supplied with dust collection skirt or disc for AirROC D50
- Manual Rod Changer (2 Rods) for Air ROC D50
- Dust collector DCT 60 with rubber outlet for AirROC T35 - supplied with dust collector skirt or disc

Transport dimensions

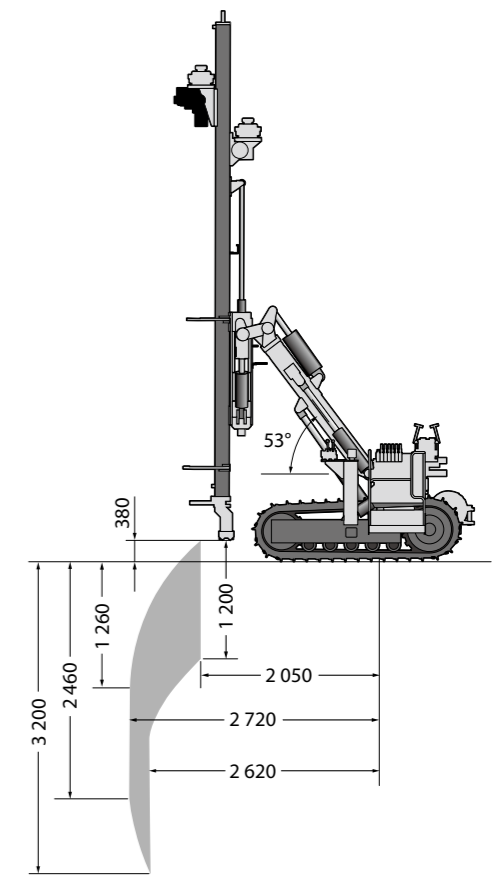
| Tramming position | Metric | US |
|--|----------|-----------|
| Height | 2 250 mm | 88.6' |
| Length | 5 750 mm | 226.4' |
| Transportation position | | |
| Height | 2 430 mm | 95.7' |
| Length | 5 750 mm | 226.4' |
| Width | 2 480 mm | 97.6' |
| Weight (Standard unit excluding all options and drill steel) | | |
| AirROC T35 and D50 | 4 800 kg | 10 582 lb |



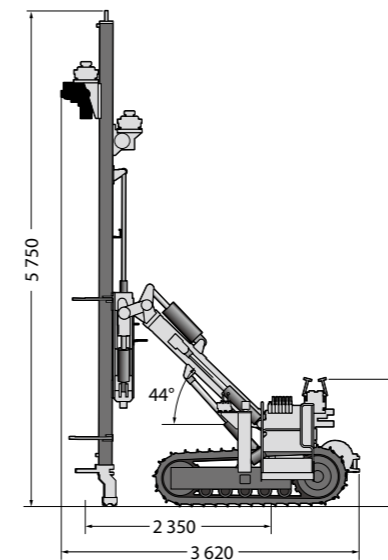
Horizontal reach (mm)



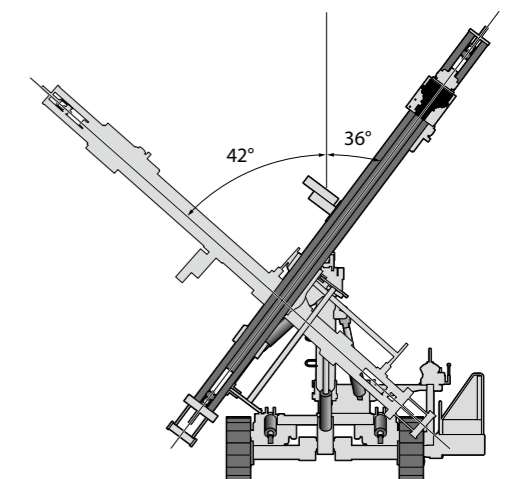
Maximum horizontal reach (mm)



Vertical coverage area (mm)



Feed vertical on ground



Factory setup

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Performance unites us, innovation inspires us, and commitment drives us to keep moving forward. Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.
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