



Boost your productivity

Thanks to its productivty boosting features like anti-jamming system, guide rails and 3-way steering the rock buggy will increase your quality output and lower your total cost of ownership.



+ Precise dimensions cut costs

In the drilling process, SpeedROC 1F's precise output dimensions help ensure a high quality product, while exact measurements also contribute to low loading and transportation costs.



+ Rails keep you in line

Combining the unit's stability with an anti-jamming system and guide rails, ensures holes are parallel to each other and aligned in a straight line. This makes for high drilling quality and capacity.



+ Better working conditions

The rig is equipped with a Radio Remote Control which allows a safe operation. Furthermore, the effective dust collector system grants an high suction capacity with a reduction of the noise level emission. The hydrostatic transmission and 3-way steering system is a unique feature of the machine which improves the tramming capacity and aids climbing gradients in tough working conditions

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 3 100 technicians worldwide. 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

- One hydraulic rock drill, COP DS5
- · Aluminium feed with rail bar
- Two independent hydraulic stabilizer legs
- Rail bar
- Folding boom

DSI applications

Marble-, granite-, sandstone-, and limestone quarries

DSI operations Primary cut drilling

Bench dressing

Block dressing

Rock drill	
COP DS5	Metric
Iala diameter	22

Weight	45 kg	99 lb
Max impact power	5 kW	6.7 hp
Impact rate	68 Hz	68 Hz
Hydraulic pressure	155 bar	2 248 psi

1.29"- 2"

Shank type HEX 22x108

Compressor		
FAD, at normal working pressure	22 l/s	46 cfm
Maximum preassure	6 bar	87 psi

Mod E3

 Drilling unit

 Starter rod
 2.40 m
 7' 10 1/2"

 Rail bar with travel length
 3.7 m
 12' 1 11/16"

 Rail bar with travel length
 3.05 m
 10'

2 independent hydraulic stabilizer legs

Rail bar front rotation +/-20°

Rail bar lateral rotation +/-20°

Rail bar horizontal rotation +/-90°

Feed in aluminium with hardened steel inserts for slide advancing with hydraulic approaching device to the ground

Chain feed slide with hydraulic engine

Sliding block in self lubricating composite

Fast system steel retainer

Folding boom		
Length boom	4.8 m	15' 9"

Swing boom rotation +/- 35°

Carrier
Axles: equipped with three steering systems
Front axle rigid to the frame

Balancing rear axle
4 drive steering wheels

4 hydraulic stabilizer legs

Hydrostatic transmission at closet circuit with pump and variable-powered pistons

hydraulic motor

Differential automatic blocksystem

- Self propelled four-wheel drive unit
- CANBUS control system
- · Cummins engine
- Screw compressor
- Dust collector system

Hydraulic system

Variable displacement main pump with load-sensing control system

Gears secondary pump for starting the dust collector system and radiator oil cooling device

Automatic device of oil pre-heating system

Oil cooling system

Anti-jamming device

Proportional control hydraulic valves

10 micron absolute oil filtration

Control system

Radio Remote Control	
2 alactronic nowar stations	

Drilling low start device concerning both the thrust pressure and the percussion pressure

Engine Cummins QSB 3.3 Tier4i Direct injection 4 cylinders Power 110 hp – 82 kW

Cummins B 3.3 Tier 3

4 cylinders
Power 85 hp – 63 kW

 Dust collector

 Filtering surface
 6 m²
 65 sq.ft

 Suction capacity
 97 l/s
 206 cfm

Number of filters: 2

Automatic cleaning system of the filters

Tramming Tramming speed 5 km/h 3.1 mph

Volumes		
Hydraulic oil tank	60 I	15.9 US gal
Hydraulic oil total	100 I	26.4 US gal
Compressor oil	81	2.11 US gal
Diesel engine oil	8.5	2.25 US gal
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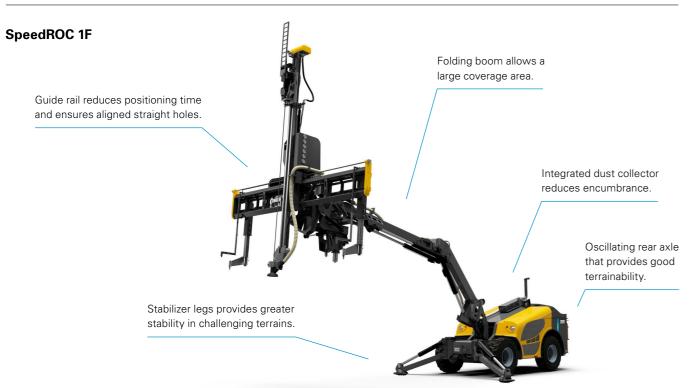
Environment		
Temperature limits	-20°C + 45°C	-4°F + 113°F
Maximum altitude	2 300 m	7 550 ft

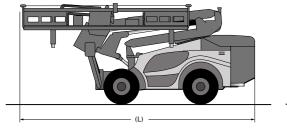
Electrical system

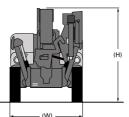
Voltage: 24 V

Batteries: 2 x 12V 100 Ah

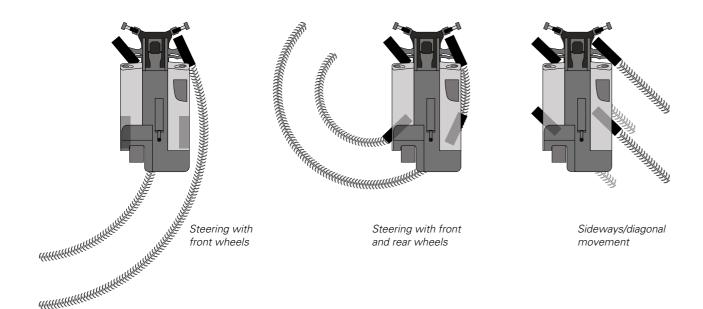
Alternator: 55 A

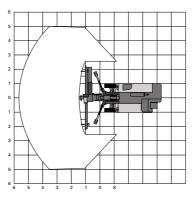




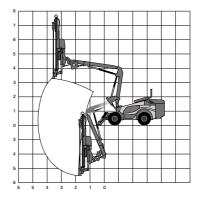


Transport dimensions and weight		
	Metric	Imperial
Length (L)	5.90 m	19′ 4″
Width (W)	2.20 m	7′ 3″
Height (H)	2.38 m	7′ 10″
Weight	5 900 kg	13 000 lb
Standard unit excluding all options and drill steel		

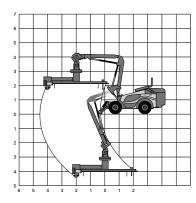




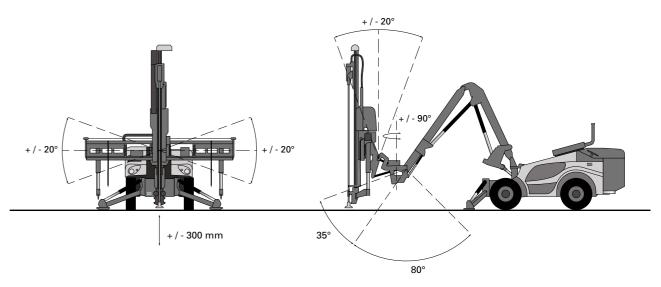
Horizontal reach - vertical drilling (mm)



Vertical reach – vertical drilling (mm)



Vertical reach – horizontal drilling (m) with supported rail bar



Rail inclination Feed swing angle

Optional equipment

- Drill rod extractor
- Kit for horizontal cutting available only on 2.4 feed length
- Automatic drilling device measuring hole depth and distance between holes

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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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