

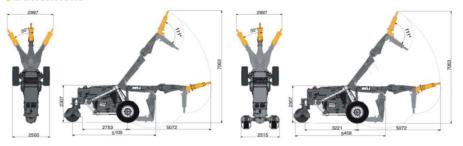
Technical Data - 220E Rockscaler GEN 2

*34*5

Electrical foot pedal option 1. Wheel speed interlock 2. Training app via android device

HAMMER	Aspirated	TYRES	HYDRAULIC SYSTEM
Atlas Copco	Naturally	Dimension: Front	Filtration type
SB302		17.5 R25 L5	Suction
	ISO/DIN Spec		
Option Atlas Copco	3 046 IFN	Rear (dual)	Filtration grade
SB202		35 x 15 - 15	20 µm
	Power rating		
MEASUREMENTS	56.5 kW @ 2 200 rpm	Type	Cylinder rod surface treatment
Width, Dual tail wheel		Tubeless, treaded	Chrome
2 515 mm	Torque, max		
2.0.0.1111	270 Nm @ 1 500 rpm	Wheel rim guards	FUEL
Width, Single tail wheel		Rear tyre	Fuel tank capacity
2 500 mm	TRANSMISSION	rica tyre	100 L
2. 500 11111	Pump	STANDARD EQUIPMENT	100 L
Length	Eaton	Hour-meter	Primary fuel filter
5 105 mm	Lator	Yes	5 µm
5 100 11811	Type	reis	O Jan
Height	Variable Displacement, Tandem	Engine oil pressure and	Water separation
2 307 mm	Axial Piston	Temperature warning lamp	Yes
2.307 mm	PAGE FEIGHT	Yes	Tes
ENGINE	Control / Option	rets	OTHER
Engine brand /model	Servo control via foot pedal linkage	Hydraulic temperature warning	Lubrication (Grease)
Deutz F4L914 Tier 2	or servo control via electric pedal	lamp	Manual (Grease)
Deutz F4L914 Her 2	or servo control via electric pedal	Yes	
	Motor	Tes	Auto Grease, optional
Number of cylinders	Podain		and the second second second
4, in-line	Podan	Alternator charge lamp	Fire extinguisher
	MM - 11.5	Yes	Optional
Displacement	Wheeldrive		
4 300 cm ³	Bell #29 P	Combined park & low charge	SAFETY
		pressure lamp	Door interlock standard
Dry type air cleaner	Configuration	Yes	Hydraulic emergency brake push
Yes	Double planetary reduction		button
		Lighting (LED)	SAHR Brake test switch
Remote engine oil drain	Travel speed	6 x 15 W Forward (1 500 Lumens)	
Yes	10 km/h	2 x 15 W Rear (1 500 Lumens)	PDS ready, optional

Dimensions



Barring

7.1.

Stop at a safe place close to the face: Stop close the face. Apply park brake. Lower the boom. Switch off the machine. Disembark the scaler. Put stop blocks at the wheels.

7.2.

Confirm where to bar: Report to the miner and confirm the area to be barred. Drive to the specified area. The crew, operator and the Miner to conduct a pre-work risk assessment.

7.3.

Install barricade: The Miner or assistant must install a barricade at the entrance of the face. Note: Nobody is allowed in the face while barring takes place.

7.4.

Start barring: Start barring the most dangerous area at the hanging wall first, then start barring the sidewalls. Do not go into an unsupported area.

7.5.

Clean the footwall: Note: Replace the moil with a shovel. Clean the footwall from the face backwards. The footwall must be level to enable the drill rigs to drill the bottom holes properly.

7.6.

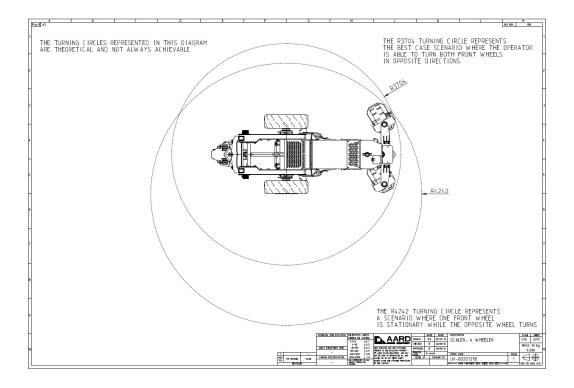
Re-evaluate the face: The Miner and his crew must re-evaluate the face to determine whether the face is barred solid and if the face is safe.

7.7

Sign off declaration: The crew, operator and the Miner must sign off the declaration to declare the workplace safe.

7.8.

Remove the barricade: The Miner or assistant must remove the barricade at the entrance of the face. Crew can continue with their work.



7.1. Removing a shovel or moil

1.

Apply the park brake:

Apply the park brake by switching the park brake switch ON. The red light will appear on the dashboard that will indicate that the park brake is engaged.

2.

Lift the boom:

Lift the boom straight and high enough above the footwall to place the boom chuck holder in position. The assistant must not stand too close the boom or machine, but he must be able to communicate to the operator.

3.

Lower and place the boom on the boom chuck holder:

The boom must be lowered in a controlled manner. There must be proper communication between the assistant and the operator. The assistant must place the boom chuck holder (Trestle) underneath the boom chuck. He must use the handle bars to manoeuvre the chuck holder. Ensure firm footing to eliminate slip and fall. The scaler operator will rest the boom on the chuck holder.

4.

Ensure the Park brake is applied:

Apply the park brake by switching the park brake switch ON. The red light will appear on the dashboard that will indicate that the park brake is engaged.

5.

Ensure the engine of the scaler is switched off:

The scaler operator will shut the engine off and climb off the scaler. Note: Put stop blocks in position

Take up position to remove the lock pin:

The operator and his assistant must take up a safe position next to the boom to remove the lock pins. Ensure firm footing. The required PPE must be used.

7.

Remove the lock pin and sliding pins (Flat locking keys):

The assistant must use the shovel handles to hold the shovel in position whilst the operator removes the 12mm lock pin and sliding pins (flat locking keys).

The operator must use the sliding hammer to remove the 12 mm lock pin.

The operator must remove the 12mm lock pin from the opposite side. The assistant must jiggle the shovel to let the two sliding pins (flat locking keys) drop to the floor. (Use the sliding hammer to hammer out the sliding pins / flat locking keys should it be necessary) Note: Once the lock pin is removed, the two sliding pins / flat locking keys and the shovel / moil will fall out. Remember to take up a safe position

so that the shovel / moil do not fall onto you.

The assistant must allow the shovel / moil to slip from the chuck and fall on the ground. He must place his feet in a widespread position to prevent the shovel from falling on his feet.

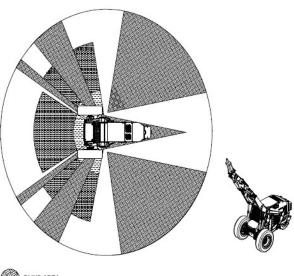


MACHINE INFORMATION

VISABILITY DIAGRAM

220E# ROCKSCALER VISABILITY

NOTE: THE ILLUSTRATION IS FOR THE MACHINE IN A WORKING POSITION WITH THE BOOM IN AN UPRIGHT ORIENTATION





BLIND AREA



GROUND LEVEL BLIND AREA



1M OFF GROUND LEVEL BLIND AREA

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OPERATOR'S MANUAL 870397 REV B March, 2015 ROCKSCALER 220E# 55

7.2. Replacing (Installing) a shovel or moil

1

Replacing the shovel or moil:

Two persons (The operator and the assistant) are required to lift the shovel / moil and guide the shovel / moil shaft into the boom chuck. Make use of the shovel handlers to lift the shovel / moil.

2

Take up position to replace two sliding pins / flat locking keys:

Once the shovel / moil is in position the assistant must hold the shovel / moil in position while the operator inserts the two sliding pins / flat locking keys from the top.

Note: Prevent the sliding pins / locking keys from falling through by covering the locking key holes underneath the chuck.

3.

Take up position to replace the lock pin:

Take up a safe position next to the boom to replace the lock pin. Ensure firm footing.

The required PPE must be used.

Insert the 12mm lock pin from either side and let the assistant jiggle the shovel to let the 12mm pin move into position.

Use the sliding hammer to hammer in the pin should it be necessary. $\bf 4.$

Place boom chuck holder at the scaler:

Place the boom chuck holder at the front of the scaler in the bracket provided for that purpose.

Maicii, 2013