

# Commando DC121R SURFACE DRILLS

Technical specification

Commando DC121R is a remote controlled, hydraulic and self-propelled drilling unit on a 4- wheel drive carrier.

Typical applications for DC121R are foundation drilling, road cutting, trenching, bolting, line drilling in dimensional stone quarries, and other special drilling applications. Therefore DC121R is most often used by construction contractors, mines and quarries, and the municipal sector. Due to its versatility DC121R is often included in the equipment fleet of rental houses as well.

KLITLATONLS	
Hole diameter:	22 - 45 mm (7/8" - 1 3/4")
Rock tools:	19, 22 or 25 mm (3/4", 7/8" or 1") rods
Rock Drill	5,5 kW
Engine output:	37 kW
Flushing air:	1,2 m3/min, up to 8 bar
Production capacity:	300 - 540 m3/8h

2800 kg

KEY FEATURES

Total weight:





Rock drill	RD106
Rock tools	HEX 19 x 108 mm, HEX 22 x 108 mm, HEX 25 x 108 mm
Operating pressure	100 - 160 bar
Percussion output power	5,5 kW
Maximum rotation torque	100 Nm/120 bar
Shank lubrication	Air / oil mist
Flushing	Air
Weight	46 kg
FEED	
Feed type	CF 100 x 32
Total length	4 540 mm
Rock drill travel	3 300 mm
Max. length of starter rod	3 200 mm hexagonal or 10', R23 MF
Hole depth with starter rod	2 800 mm (9' 2")
Hole depth with second rod	6 000 mm (19' 8")
Feed extension travel	600 mm (2')
Feed/pull out force	3.7 kN
Feed swing	+/- 47°
Feed tilt	110°
воом	
Boom type	DB 120, articulated
Boom reach	3.8 m
Drilling coverage	10 m2
Boom swing	+/- 43°
Collaring height	+2.2 m/-4.0 m
Horizontal holes	Sideways, forwards

Engine type	CAT C 2.2 water cooled
Number of cylinders	4
Engine output	37 kW / 2 800 rpm
Transmission type	Direct/polygroove belt
Screw compressor type	Enduro 3
Air filters	2 pcs
Fuel tank	75
HYDRAULIC SYSTEM	
Number of gear pumps	3 pcs.
Filtration rate	10 micron abs.
Cooling capacity	up to +50°C ambient
Hydraulic oil tank	45 l
Shank lubrication device	WL 30
Tramming/boom/ drilling control	Direct controlled
Drilling control system type	Tamrock TA 132 E / 120
Half percussion/minimum percussion	Standard
Antijamming system	Standard
Collaring control	Stepless
Voltage	24 VDC
DUST COLLECTOR	
Dust collector type	DC 120
Capacity/vacuum	5 m3/min at 855 mm vacuum H2O
Filter elements/material	6 pcs/fiber
- · · · · · · · · · · · · · · · · · · ·	4.8 m2
Total filter surface	
CARRIER	220 mm
	220 mm 20 kN

3.6 km/h

Max. tramming speed



### STANDARD COMPONENTS

1 pc Rock drill RD106, hydraulic  1 pc Chain feed CF 100 x 32, incl. one set of jaws  1 pc Rod rack on the carrier  1 pc Boom DB 120, articulated  1 pc Carrier, rubber-tyred  1 pc Power pack, diesel driven, hydraulic pumps and on-board compressor  1 pc Hydraulic system, open center  1 pc Control system TA132E, with radio remote control for boom movements and drilling  1 pc Dust collection system DC 120 H, hydraulic  4 pcs Working lights  4 pcs Hydraulic jacks  1 pc Operator's manual (paper copy)  EU-safety devices	CITAL DE COMMENTE
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, 1 1 17	4 pcs Hydraulic jacks
EU-safety devices	1 pc Operator's manual (paper copy)
	EU-safety devices

# THE JAWS FOR DRILL STEELS

DRILL STEEL TYPE	DRILL STEEL	RECOMMENDED
	DIAMETER	HOLE DIAMETER
Hexagonal steels	19 mm	22 - 27 mm
	3/4"	7/8" - 1 1/16"
Hexagonal steels	22 mm	28 - 45 mm
-	7/8"	1 7/64" - 1 3/4"
Hexagonal steels	25 mm	35 - 45 mm
	1"	1 3/8" - 1 3/4"
MF rods	R23	33 - 45 mm
		1 5/16" - 1 3/4"
Shank	R23	33 - 45 mm
adaptor/Shank rod		1 5/16" - 1 3/4"
Shank rod Alpha	25 mm	35 - 45 mm
250	1"	1 3/8" - 1 3/4"

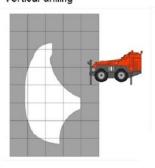
#### SELECTION OF OPTIONS

Spirit level angle indicator		
TIM 1402 feed angle measuring system		
TIM 1403 feed angle and depth measuring system		
TIM 1404 feed angle measuring and aligning system		
Biogradeable hydraulic oil		
Central lubrication system Lincoln		
Chain tracks		
Electric fuel filling pump		
Hydraulic winch		
Manual fuel filling pump		
Electric heater for engine 230 V		
Exhaust gas purifier		
Shut down of suction for water holes		
Water flushing kit without water pump		
Water pump for water flushing kit		
Grinder Dynaset		
Grinder Sandvik RG100H		
Spare radio remote transmitter		

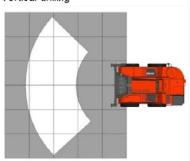


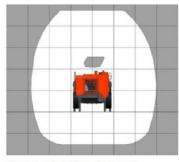
# Coverage area and dimensions

## Vertical drilling

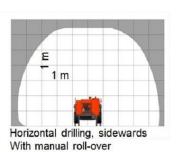


Vertical drilling



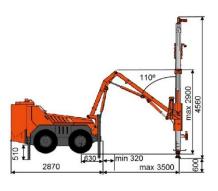


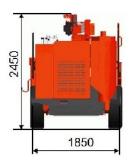
Horizontal drilling, forwards





Horizontal drilling, sidewards





#### **DIMENSIONS**

Weight	2800 kg
Width	1.85 m
Height	2.45 m
Total length	4.5 m

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