

Commando DC125R

Surface Top Hammer Drills



Commando DC125R is a fully remote controlled, hydraulic and self-propelled drilling unit on a 4-wheel drive carrier.

Typical applications for Commando DC125R are foundation drilling, road cutting, trenching, bolting, line drilling in dimensional stone quarries, and other special drilling applications. Therefore Commando DC125R is most often used by construction contractors, mines and quarries and the municipal sector. Due to its versatility Commando DC125R is often included in the equipment fleet of rental houses as well.

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:	36,8 kW (Tier 3)
Flushing Air:	1,2 m ³ /min, up to 8 bar
Production Capacity:	300 - 540 m ³ /8h
Total Weight	3150 kg

Commando DC125R

HYDRAULIC ROCK DRILL

Rock drill type	HEX 1
Drill rod diameters	HEX 19 x 108 mm; HEX 22 x 108 mm; HEX 25 x 108 mm
Operating pressure	100 - 160 bar
Percussion rate	82 Hz
Percussion output power	5,5 kW
Maximum rotation torque	100 Nm/120 bar
Shank lubrication	Air / oil mist
Flushing	Air
Weight	46 kg

FEED

Chain feed type	CF 100 x 32 / HEX 1
Length of feed	4 540 mm
Max. length of starter rod	3 800 mm
Max. rock drill travel	3 400 mm
Feed/pull out force	3.7 kN
Front centralizer	Manual
Travelling centralizer	Manual
Feed extension travel	600 mm (2')
Feed swing	+/- 47°
Feed tilt	110°

BOOM

Boom type	DB 120 HD, articulated
Boom length	3.8 m
Boom swing	+/- 43°
Drilling coverage on flat	10 m ²
Collaring height	+2.2 m/-4.0 m
Horizontal holes	Sideways, forwards

HYDRAULIC SYSTEM

Hydraulic system type	Open center, pilot controlled
Filtration rate	10 micron abs.
Cooling capacity	up to +50°C ambient
Hydraulic oil tank	45 l
Shank lubrication device	WL 30

POWERPACK

Engine type	CAT C 2.2 (Tier 3)
Number of cylinders	4
Engine output	36,8 kW / 2 800 rpm
Transmission type	Direct/polygroove belt
Hydraulic pumps	four gear pumps
Screw compressor type	Enduro 3
Air flushing capacity	1.2 m ³ /min
Flushing air pressure	4 - 8 bar
Air cleaner	2 pcs
Fuel tank	75 l
Average fuel consumption	4 - 6 l/h
Max. operating altitude	3 000 m
Fuel saving system	Standard

CONTROL SYSTEM

Type	Intelligent drilling control system
Antijamming system	Controlled by I/O-module and software
Voltage	24 VDC
Boom and drilling control	Radio remote
Driving and jack control	Radio remote

DUST COLLECTOR

Dust collector type	DC 130H
Capacity/vacuum	5 m ³ /min at 855 mm vacuum H ₂ O
Filter elements/material	6 pcs/fiber
Total filter surface	4.8 m ²
Hydraulic motor output	3 kW
Weight	90 kg

CARRIER

Carrier type	Rubber tyred, 4-wheel drive
Ground clearance	300 mm
Tramming force	20 kN
Tramming speed	3.6 km/h
Number of hydraulic jacks	4

STANDARD COMPONENTS

Rock drill	HEX 1, hydraulic
Chain feed	CF 100 x 32 / HEX 1, incl. one set of jaws
Rod rack	On the carrier
Boom	DB 120HD, articulated
Carrier	Rubber-tyred
Powerpack	Diesel driven, hydraulic pumps and on-board compressor
Hydraulic system	Open center
Control system	Integrated, radio remote controlled
Dust collector	DC 130H, hydraulic
Working lights	6 pcs
Hydraulic jacks	4 pcs
EU-safety devices	EN 16228, service light, alarm signal, alarm beacon
Manuals	1 x paper copy 1 x CD-ROM (ToolMan)

THE JAWS FOR DRILL STEELS

Drill steel type	Drill steel diameter	Recommended hole diameter
Hexagonal steels	19 mm $\frac{3}{4}$ "	22 - 27 mm $\frac{7}{8}$ " - $1 \frac{1}{16}$ "
Hexagonal steels	22 mm $\frac{7}{8}$ "	28 - 45 mm $1 \frac{7}{64}$ " - $1 \frac{3}{4}$ "
Hexagonal steels	25 mm 1"	35 - 45 mm $1 \frac{3}{8}$ " - $1 \frac{3}{4}$ "
MF rods	R23	33 - 45 mm $1 \frac{5}{16}$ " - $1 \frac{3}{4}$ "
Shank adapter/ Shank rod	R23	33 - 45 mm $1 \frac{5}{16}$ " - $1 \frac{3}{4}$ "
Shank rod Alpha 250	25 mm 1"	35 - 45 mm $1 \frac{3}{8}$ " - $1 \frac{3}{4}$ "

If several jaws selected please specify jaws assembled

FEEDS

Feed	CF100x32 with hose reel	CF100x40	CF100x40 with hose reel
Length of feed	4 540 mm	5 050 mm	5 050 mm
Max. length of starter rod	3 300 mm	4 300 mm	3 800 mm
Max. Rock drill travel	2 900 mm	3 900 mm	3 400 mm

SELECTION OF OPTIONS

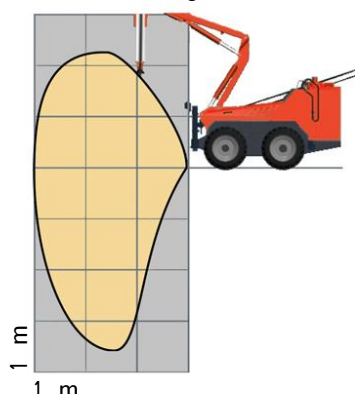
1.	Spirit level angle indicator
2.	TIM 1402 feed angle measuring system
3.	TIM 1403 feed angle and depth measuring system
4.	TIM 1404 feed angle measuring and aligning system
5.	Kit for alternative steels, each
6.	Chain feed CF100x40 *
7.	Front centralizer Pito 1 *
8.	Safety cage with hose reel
9.	Biodegradable hydraulic oil
10.	Central lubrication system Lincoln
11.	Chain tracks
12.	Electric fuel filling pump
13.	Hydraulic winch
14.	Manual fuel filling pump
15.	Xenon lights, 6 pcs
16.	Led lights 6 pcs
17.	Electric heater for engine 230 V
18.	Exhaust gas purifier
19.	Fuel powered heater for engine

20.	Shut down of suction for water holes
21.	Water flushing kit without water pump
22.	Water pump for water flushing kit
23.	Grinder Dynaset
24.	Grinder Sandvik RG100H
25.	Steel wearing strips for chain feed
26.	Spare radio remote transmitter
27.	Extra manuals, price will be added according to pricing sheet
28.	First service kit for DC120
29.	Special tools for HEX 1

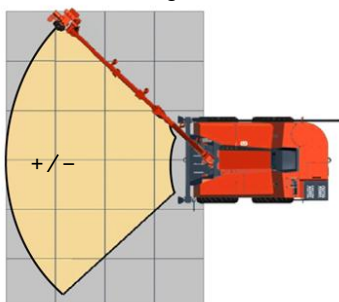
*) replaces standard component

COVERAGE AREA

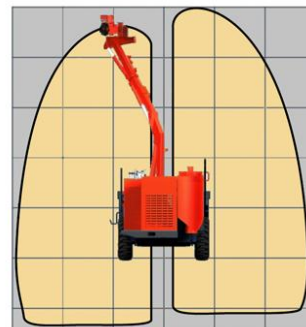
Vertical drilling



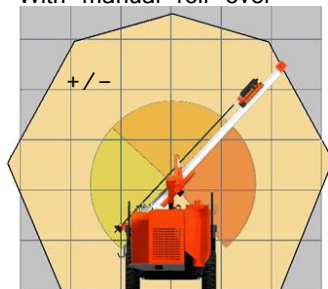
Vertical drilling



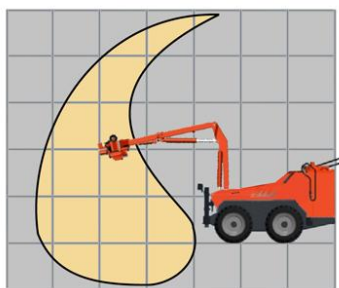
Horizontal drilling, forwards



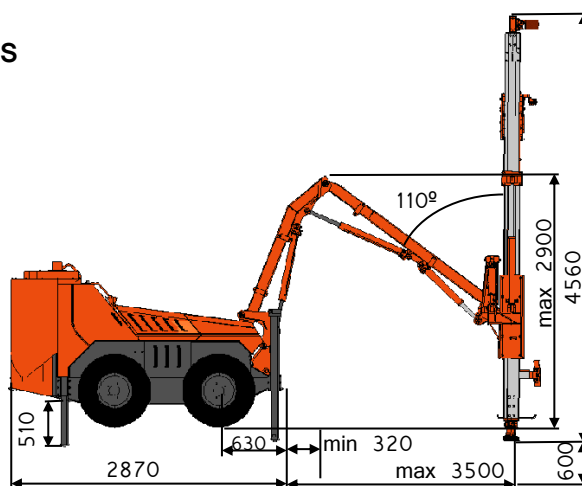
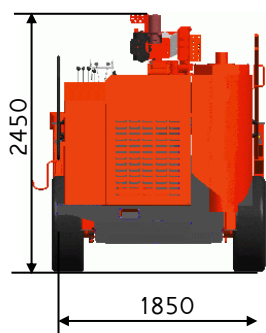
Horizontal drilling, sideways
 With manual roll-over



Horizontal drilling, sideways



TRAMMING AND TRANSPORT DIMENSIOIS



Weight (without options)	3150 kg
Width	1.85 m
Height	2.45 m
Total length	4.7 m

Sandvik Mining and Construction Oy reserves the right to change specifications without notice. Note: Machines shown in pictures may be equipped with options.

Sandvik Mining and Construction Oy
 P.O.Box 100, FIN-33311 Tampere, Finland
 Tel. +358 205 44 121, Telefax +358 205 44 120
www.sandvik.com