

Sandvik DQ240R

Surface Top Hammer Drills



Sandvik DQ240R is hydraulically operated, excavator mounted line drilling unit for dimensional stone quarries.

DQ240R includes feature rich drilling control system with radio remote control. Drilling single pass holes can be completely automated with Automatic Drilling option. With this option DQ240R drills whole line of holes completely automatic. When drilling deeper holes with second steel, semi-automatic mode can be used. With this mode holes are drilled automatically but machine stops for rod changes. In manual mode all functions are controlled by operator. DQ240R also includes preinstalled and tested Installation Package which makes installing necessary systems to excavator really easy.

Application	Vertical line drilling
Hole Diameter:	22 - 45 mm ($\frac{7}{8}$ " - $1\frac{3}{4}$ ")
Rock Tools:	19 or 22 mm ($\frac{3}{4}$ " or $\frac{7}{8}$ ")
Rock Drill:	5,5 kW
Flushing Air:	3,5 m ³ /min, up to 8 bar
Drilling attachment weight	2400 kg without options 2 900 kg with options
Installation package weight	1 100 kg

HYDRAULIC ROCK DRILL

Rock drill type	HEX I
Drill rod diameters	HEX 19 x 108 mm; HEX 22 x 108 mm
Operating pressure	100-180 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	48 kg

FEED

Chain feed type	2x CF 100x24 / HEX I
Length of feed	3 670 mm
Rock drill travel	2 670 mm
Max. length of starter rod	2 400 mm
Hole depth with starter rod	2 100 mm
Max. length of second rod	4 800 mm
Hole depth with second rod	4 500 mm
Single pass first drill steel	2 970 mm
Hole depth with single pass	2 670 mm
Feed/pull out force	3,7 kN
Front centralizer	Manual
Steel retainers	Hydraulic
Feed extension travel	600 mm
Weight / piece	195 kg

HYDRAULIC SYSTEM

Shank lubrication device	WL 30, 2 pcs
Hydraulic system type	Open center, electric direct control
Filtration rate	12 micron abs.
Cooling capacity	Up to +45°C ambient

CONTROL SYSTEM

Control panel TA 341 E, 2 pcs	Radio remote control
Antijamming system	Hydraulic, stepless
Voltage	24 VDC
Control for excavator boom and swing movements	

DQ240R FRAME

Frame length	3 560 mm
Drilling length	3 150 mm
Hydraulic legs	4 pcs
Working Lights	2 pcs
Vertical swing	± 80 °
Horizontal swing	± 30 °
Tilt	+ 40/- 35
Horizontal zoom	200 mm

INSTALLATION PACKAGE

Pre installed package includes:

Frame and covers

Dust Collector DC 710 H

Compressor 3,5 m³/min, up to 8 bar

Flow divider and control valves

Oil Coolers

Electric box

Weight 1 100 kg

DUST COLLECTOR

Dust collector type	DC 710 H
Capacity/vacuum	17 m ³ / min at 1000 mm vacuum H ₂ O
Filter elements/material	12 pcs / fiber
Total filter surface	9,6 m ²
Hydraulic motor output	8 kW

DRILLING AUTOMATION FEATURES

Auto-stop to preset hole depth

Half power drilling in collaring and finishing of the hole

Automated side movement of chain feeds to next hole

Adjustable hole spacing

Digital inclination indicator / operator console

Simulation of drilling cycle

Drill steel change indicator

REQUIREMENTS FOR THE EXCAVATOR

Min. oil flow for drilling	250 l/min / 150 bar
Min oil flow for boom	40 l/min / 210 bar
Engine power min.	100 kW
Electric system	24 V
Max. pilot pressure (for remote control)	30 bar
Min. boom lifting capacity	2900 kg at max reach to the side

STANDARD COMPONENTS

Drilling frame	1 pc
Chain feeds	2 x CF 100 x 24
Rock drills	2 x HEX I, hydraulic
Shank lubricators	2 x WL 30
Hydraulic system	Open center
Control system	2 x TA 34I E-24, radio remote
Operator console	Electronic XY inclination display
Hydraulic jacks	4 pcs
Working lights	2 pcs
Installation Package	Frame and covers Dust Collector DC 710 H Compressor Flow divider and valves Oil Cooler
Electric box	1 pc
Valves for excavator control	1 set for remote control for boom and swing
Lock valves for boom cylinders	6 pcs
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 $1\frac{7}{64}$ " - $1\frac{3}{4}$ "

If several jaws selected please specify jaws assembled

Not Delivered by Sandvik

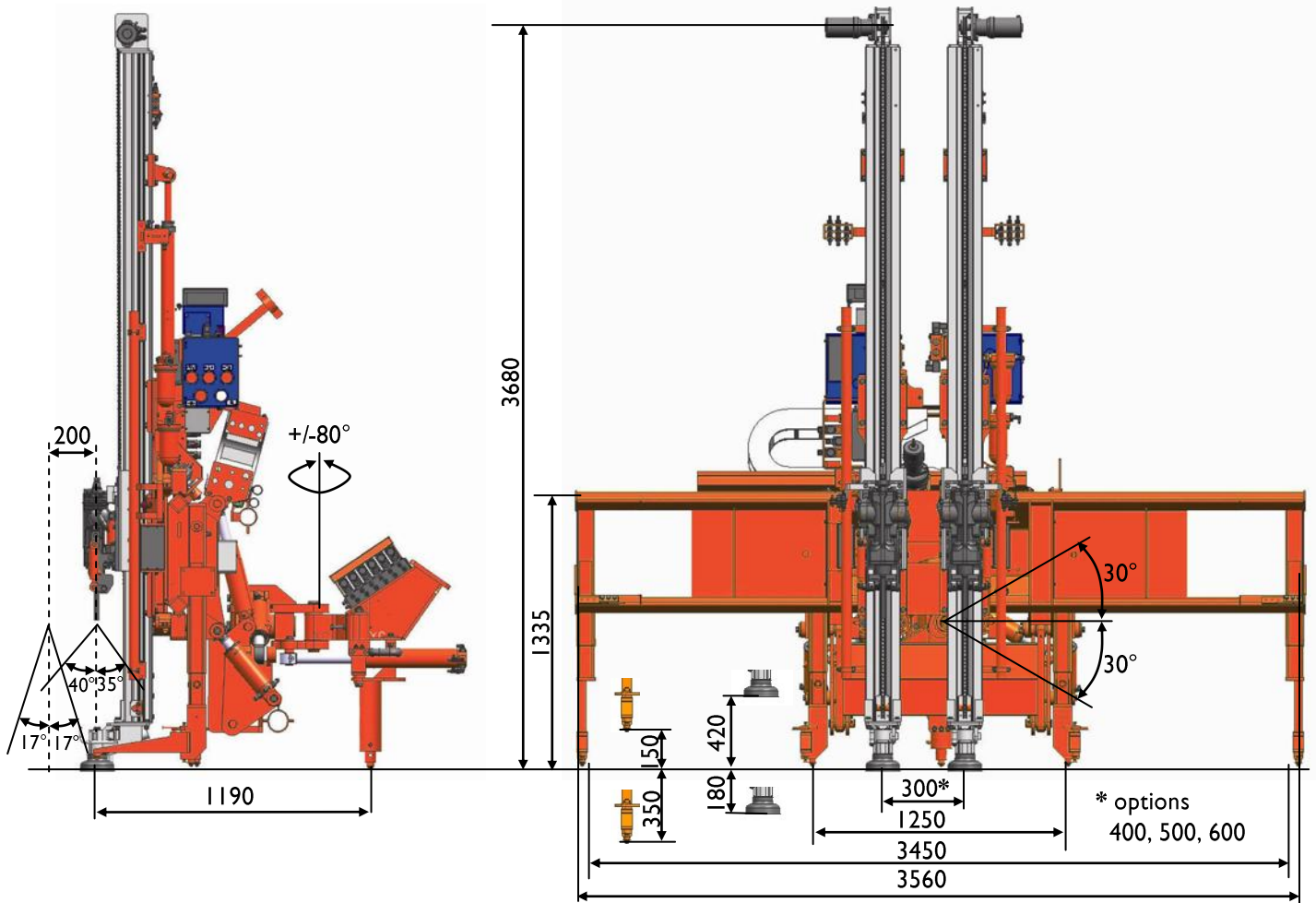
Excavator specific mounting bracket between boom and DQ240R drilling frame
Excavator specific mounting brackets between excavator and Installation Package
Hydraulic connection parts between DQ240R and excavator hydraulics

SELECTION OF OPTIONS

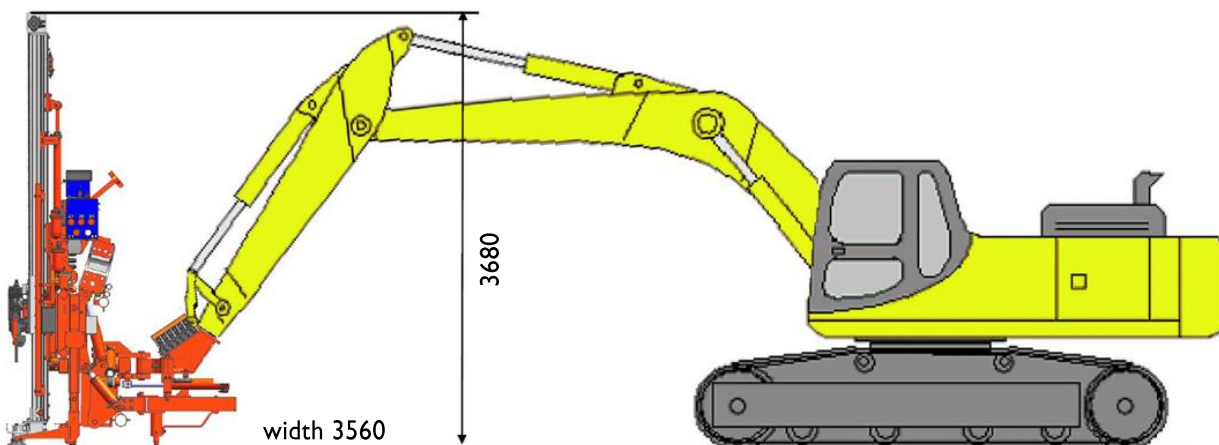
1.	Cable remote control
2.	Drilling automatics
3.	Drill steel pulling device with hydraulic front centralizer
4.	Hydraulic front centralizer
5.	Chain feeds CF 100 x 32, 2 pcs (replaces the standard component)
	Length of feed: 4 540 mm
	Rock drill travel: 3 200 mm
	Max. length of starter rod: 3 200 mm
	Hole depth with starter rod: 2 790 mm
	Max. length of second rod: 6 400 mm
	Hole depth with second rod: 5 990 mm
	Single pass first drill steel: 3 600 mm
	Hole depth: 3 200 mm
	Weight / piece: 235 kg
6.	Chain feeds CF 100 x 40, 2 pcs (replaces the standard component)
	Length of feed: 5 240 mm
	Rock drill travel: 3 900 mm
	Max. length of starter rod: 4 000 mm
	Hole depth with starter rod: 3 590 mm
	Max. length of second rod: 7 900 mm
	Hole depth with second rod: 7 490 mm
	Single pass first drill steel: 4 300 mm
	Hole depth: 3 900 mm
	Weight / piece: 250 kg

7.	Steel wearing strips for chain feeds, 2 sets
8.	Water flushing kit, 2 pcs
9.	Special ground support
10.	Grinder Dynaset
11.	Grinder Sandvik RG100H
12.	Special tools for HEX I
13.	Extra manuals, price will be added according to pricing sheet

DIMENSIONS



TRANSPORT DIMENSIONS AND COVERAGE AREA



Notice: The transport dimensions are for trailer transportation and may vary according to excavator

Weights	2400 kg without options 2900 kg with options 1100 kg (Installation Package) = 3600 kg
Width	3470 mm
Height	3680 mm

Sandvik Mining and Construction reserves the right to change this specification without further notice.

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