

Dino DC420Ri S5 SURFACE DRILLS

Technical specification

Dino DC420Ri is a hydraulic, self-propelled, self-contained, crawler based surface drilling unit with full radio remote control.

Typical applications for DC420Ri are road construction, demolition works, secondary breaking, foundation drilling and trenching. Therefore DC420Ri is most often used by construction contractors, quarries and the municipal sector. Due to its versatility DC420Ri is a perfect machine for drilling and blasting contractor.

KEY FEATURES

Hole diameter:	51 - 76 mm (2" - 3")
Rock tools:	R32, T35, T38
Rock Drill	14 kW
Engine output:	105 kW
Flushing air:	3,5 m3/min, up to 8 bar
Production capacity:	600 m3/shift
Total weight :	abt. 11 000 kg





HYDRAULIC ROCK DRILL

Rock drill	RD414
Rock tools	R32, T35, T38
Operating pressure	110 - 220 bar
Percussion rate	56 - 78Hz
Percussion output power	14 kW
Maximum rotation torque	680 Nm
Shank lubrication	Air / oil mist
Flushing	Air
Weight	180 kg

FEED

Feed type	Chain feed CF400
Total length	6900 mm
Rock drill travel	3800 mm
Max. length of starter rod	4270 mm (14')
Hole depth with starter rod	3510 mm
Hose reel	Standard
Feed extension travel	1300 mm
Feed/pull out force	15 kN
Feed swing	45/45°
Feed tilt	119°

ROD CHANGER

Rod changer type	RC400
Storage capacity	1 + 1, 1 + 3 optional
Rod length	14' + 12' 14' + 12' + 12' + 12' optional
Max. hole depth	14,5 m

BOOM

Boom type	DB410, articulated
Boom reach	5,2 m
Drilling coverage	18 m ²
Boom swing	+/- 45°
Collaring height	+1,65 m / -4,15 m
Horizontal holes	forward only

POWERPACK

Engine type	Volvo Penta TAD580VE (Tier 4f / StageV)
DEF tank	AdBlue, 25 l
Number of cylinders	4
Engine output	105 kW
Transmission type	Gearbox
Screw compressor type	Enduro 12
Air filters	2 pcs
Fuel tank	210 l

HYDRAULIC SYSTEM

Number of gear pumps	3 pcs. for dust collector and cooling
Number of piston pumps	2pcs. for drilling, tramming, boom and rodhandling
Filtration rate	10 micron abs.
Cooling capacity	up to +50°C ambient
Hydraulic oil tank	235 l
Shank lubrication device	SLU 14-1

CONTROL SYSTEM

Control system type	Sandvik SICA, PLC controlled proportional electro- hydraulics
Tramming/boom/ drilling control	PLC controlled
User interface	Radio remote and touch screen
Control system diagnostics	Graphical flow chart diagnostic system
Drilling control system type	iTorque
Antijamming system	For rotation and flushing
Collaring control	Automatic
Preset drilling parameters	2 adjustable
Voltage	24 VDC

DUST COLLECTOR

Dust collector type	DC400H
Capacity/vacuum	16 m ³ /min at 855 mm vacuum H2O
Filter elements/material	9 pcs/fiber
Total filter surface	7,2 m ²
Primary cyclone	Optional
Movable suction head	Standard

CARRIER

Track type	FL 4
Grouser plate width	250 mm
Ground contact length	2450 mm
Ground pressure	0.8 kg/cm ²
Ground clearance	400 mm
Oscillation angles	+/- 10°
Tramming force	100 kN
Max. tramming speed	3,2 km/h



STANDARD COMPONENTS

Rock drill RD414
Feed CF400
Safety cage for feed
Stainless steel strips for feed
Hose reel
Rod handler: One rod add
Boom DB410: articulated
Carrier, track mounted
Guides for grousers
Led Lights 6 pcs
Power pack: diesel engine, hydraulic pumps and on-board compressor
Hydraulic system, electric load sensing
Dust collector: DC400
Control system: radio remote control
Hydraulic rear ground support
Real time rock drill position
Pressure filter for percussion line
Torque control
Oil heating circulation
Shutdown of suction for waterholes
Flushing control automatics
Gauge Set for rock drill accumulators
Knowledge Box for My Sandvik
Bluetooth connectivity for My Sandvik
1 pc Operator's manual (paper copy)

THE JAWS FOR DRILL STEELS

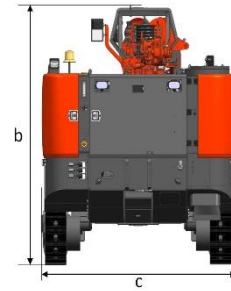
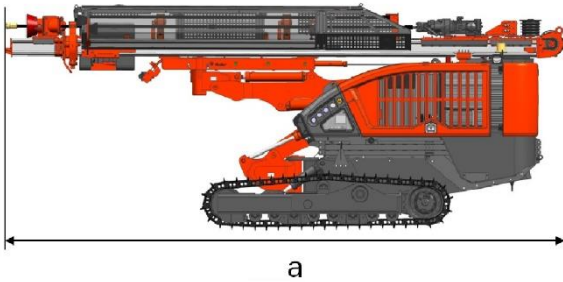
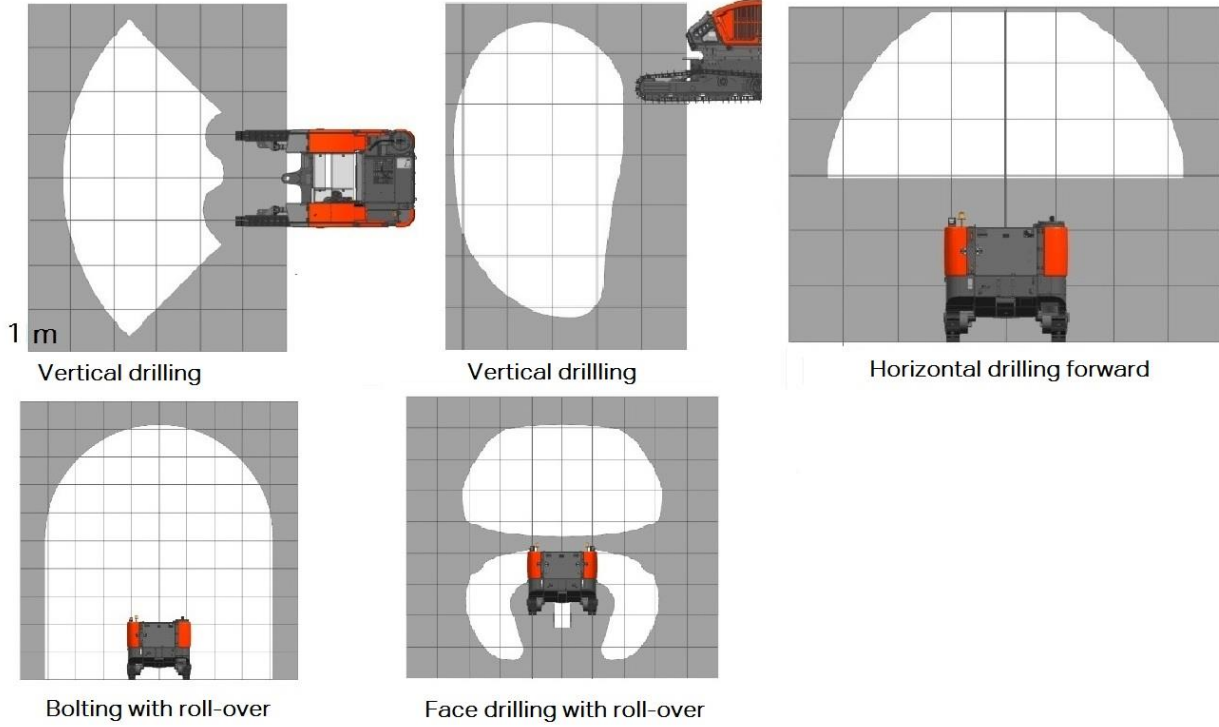
DRILL STEEL TYPE	DRILL STEEL DIAMETER	RECOMMENDED HOLE DIAMETER
R32	R32 / 32 mm	51 – 76 mm
T35	T35 / 39 mm	54 – 76 mm
T38	T38 / 39 mm	64 – 76 mm

SELECTION OF OPTIONS

Drilling stop input for external navigation systems DC420Ri (requires TIMi)
Open Drill Interface for DC420Ri
My Sandvik Insight
TIMi for vertical holes and hole depth measuring
TIMi horizontal holes measurement (requires TIMi)
TIMi aligned holes with GPS and hole depth measurement
TIMi aligned holes with GPS, laser level and hole depth measurement
Auto alignment for DC TIMi
Rod changer for 3 rods (not available with roll-over)*
Drilling noise silencer*
SLU based thread greasing
SLU oil low level warning
One hole automation drilling
Hydraulic roll-over DC400
Biogradeable hydraulic oil
Central lubrication system Lincoln
Electric fuel filling pump
Hydraulic winch
Remote screen interface (Tablet or mobile phone not included)
Electric engine heater and float charger 230 V
Fuel powered heater for engine, SLU and water tank (if selected)
Dustmizer
Flap feeder for dust collector
Precyclone for dust collector
Water flushing kit without water pump
Grinder Sandvik RG400
CME mini junior Grinder
Hydraulic connection for grinder
Shoulder harness for radio remote transmitter
*replaces standard component



Coverage area and dimensions



DIMENSIONS

Weight	abt. 11 000 kg
Width	c, 2450 mm
Height	b, 2850 mm
With roll-over	b, 3000 mm
Total length	a, 6900 mm



Sandvik Mining and Rock Solutions reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.