



# 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 (S5)
Flushing air:	3,5 m <sup>3</sup> /min, up to 8 bar
Production capacity:	600 m <sup>3</sup> /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 m2
Boom swing	+/- 45°
Collaring height	+1,65 m / -4,15 m
Horizontal holes	forward only

POWERPACK	
Engine type	Volvo Penta TAD580VE (Stage5)
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 m3/min at 855 mm vacuum H2O
Filter elements/material	9 pcs/fiber
Total filter surface	7,2 m2
Primary cyclone	na
Movable suction head	Standard

CARRIER	
Track type	FL 4
Grouser plate width	250 mm
Ground contact length	2450 mm
Ground pressure	0.8 kg/cm2
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
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
Drilling stop input for external navigation systems
Gauge Set For rock drill accumulators
SanRemo Mobile, Bluetooth connectivity for My Sandvik
My Sandvik Insight, one-year subscription, BG01162214
Manuals: 1 x paper copy
Manuals: 1 x USB memory (Toolman)

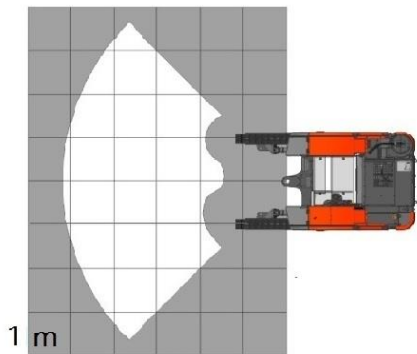
## THE JAWS FOR DRILL STEELS

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

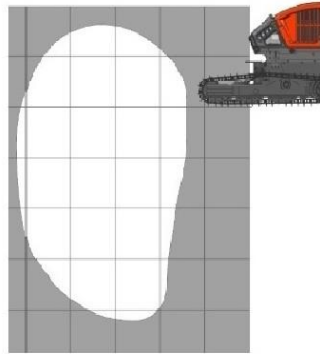
## SELECTION OF OPTIONS

Knowledge Box (4G/LTE and WiFi for My Sandvik)
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
Kit for alternative steels, each
SLU based thread greasing
Hydraulic roll-over DC400
Biodegradable hydraulic oil
Electric fuel filling pump
Hydraulic winch
Remote screen interface (Tablet or mobile phone not included), CGU
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
Grinder Sandvik RG400
Hydraulic connection for grinder
Spare radio remote transmitter
Shoulder harness for radio remote transmitter
First service kit for DC400
Special tools for RD414, field kit
Service agreement - select level from extra item

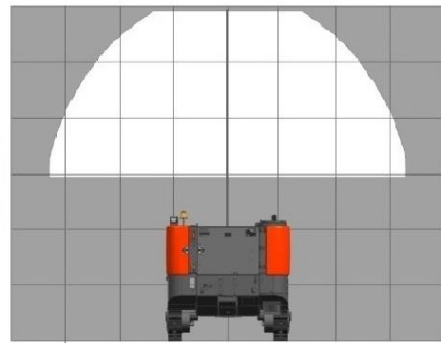
COVERAGE AREA AND DIMENSIONS



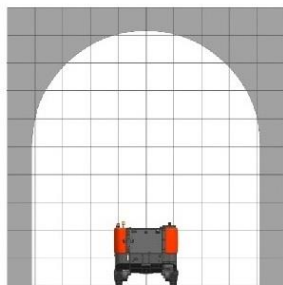
Vertical drilling



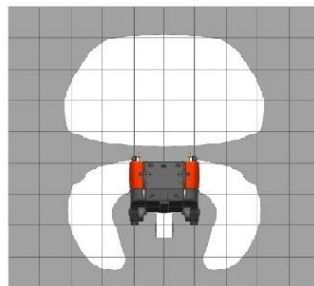
Vertical drilling



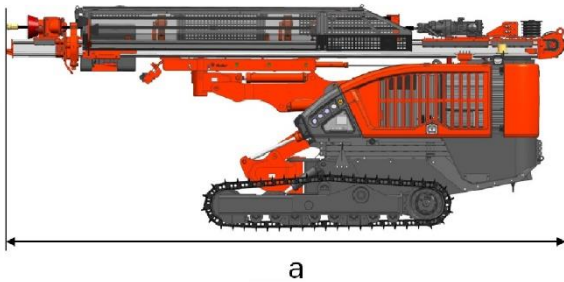
Horizontal drilling forward



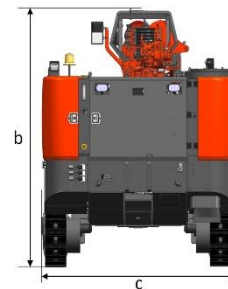
Bolting with roll-over



Face drilling with roll-over



a

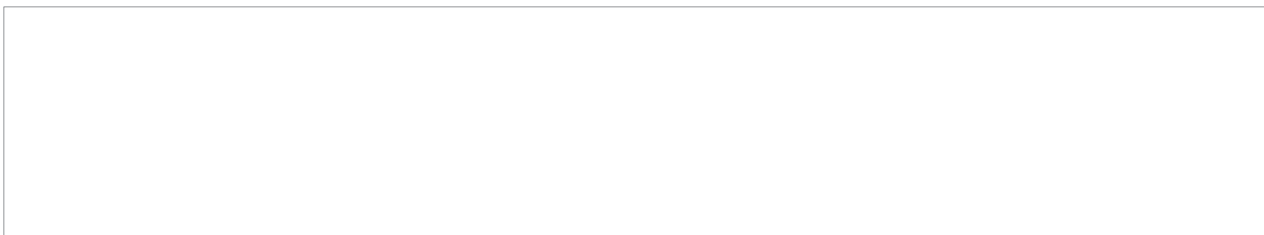


b

c

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.

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