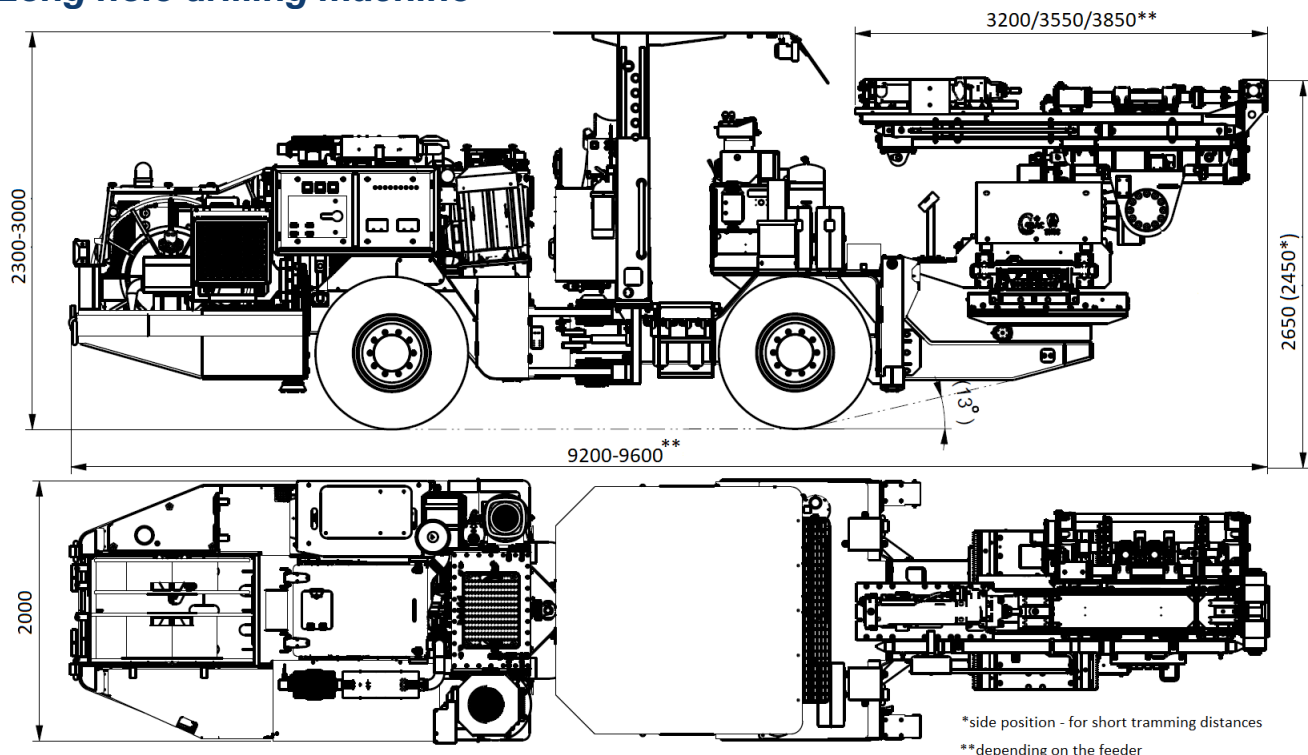


Production Master 2.3

Long hole drilling machine



MAIN COMPONENTS

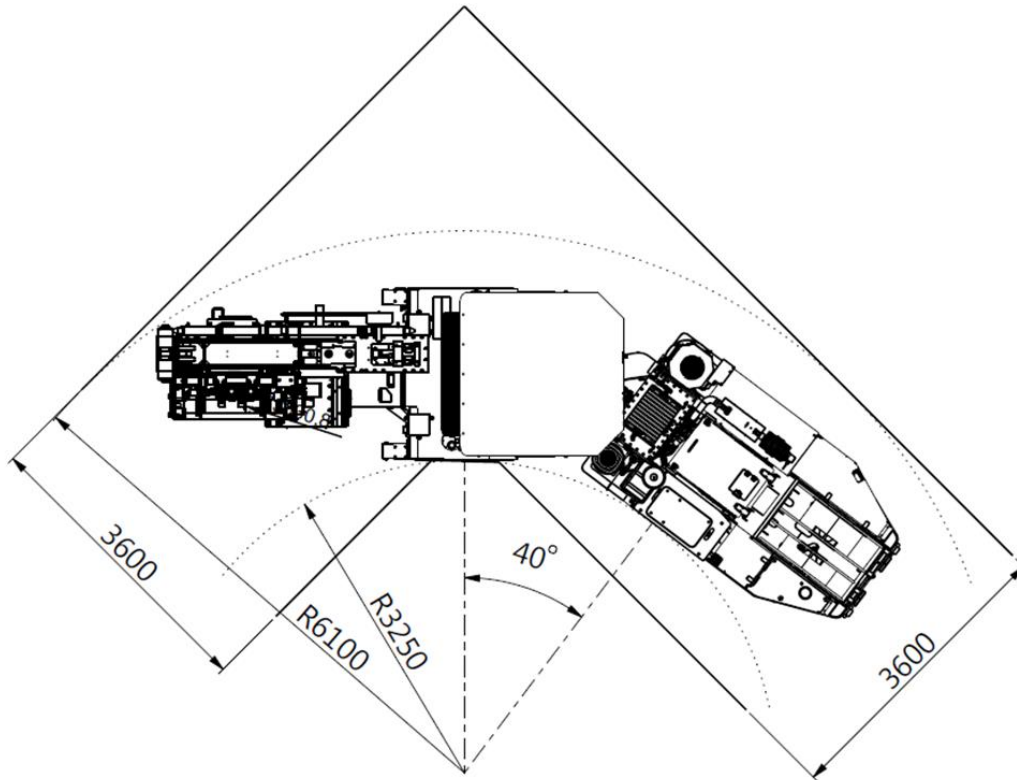
Rockdrill	Montabert HC 112 (HC170 optional)
Diesel engine	Deutz TCD2012L04 - 95 kW @ 2300 RPM, liquid cooled
Feeder	CMAC series
Tires	12.00 x 20

MAIN PARAMETERS

WEIGHT	23 000 kg
DIMENSIONS	
Length	9200-9600 mm (depending on the feeder)
Width	2 000 mm
Min. height (tramming position)	2 450 mm
Turning radius	$R_i = 3\ 250\ \text{mm}$ $R_o = 6\ 100\ \text{mm}$
Minimum width of heading	3 600mm
Admissible along gradeability	10 degrees
Admissible cross-grade	5 degrees

Production Master 2.3

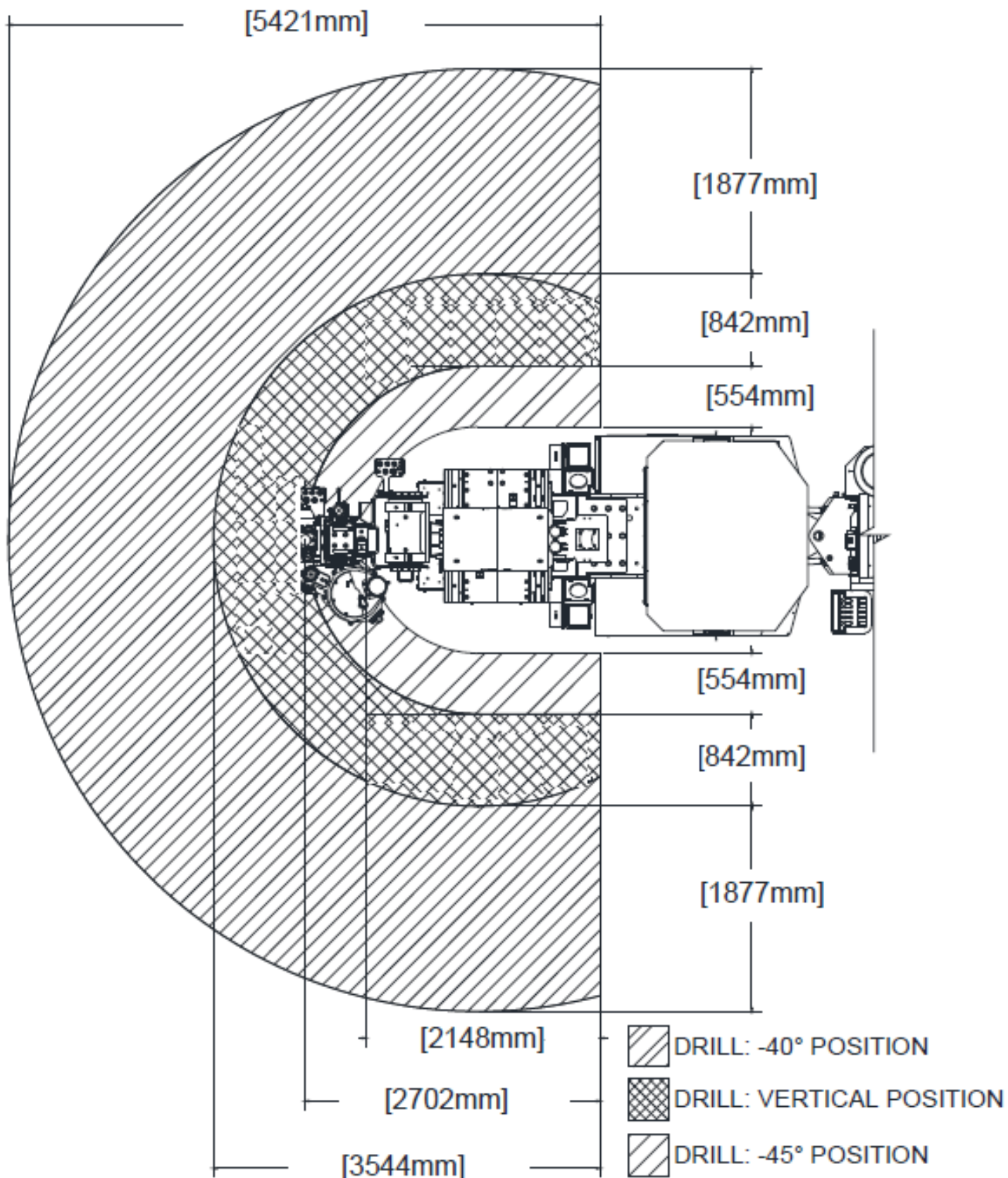
Turning radius



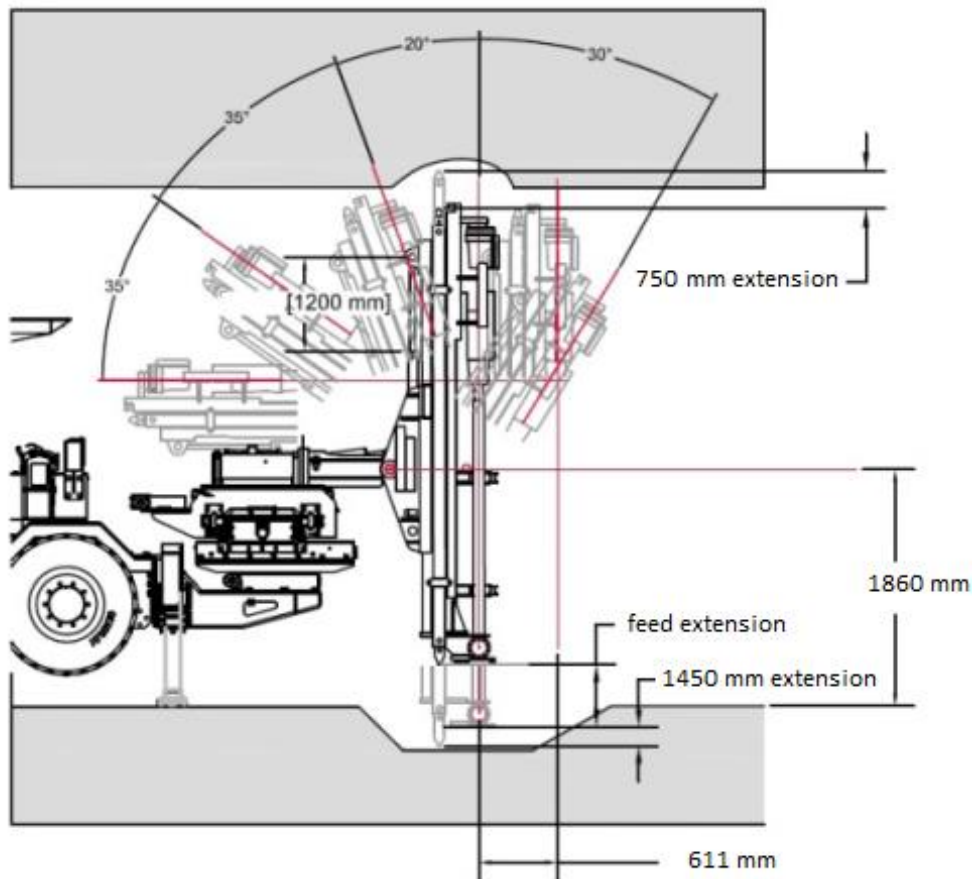
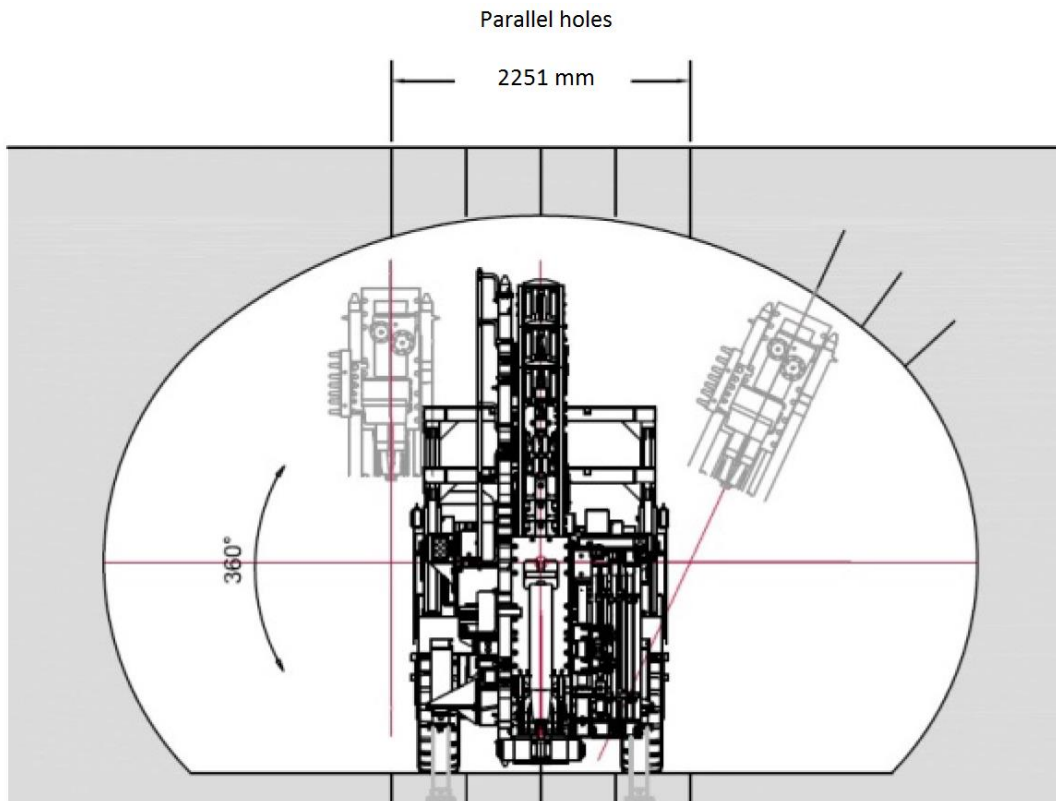
Coverage



Production Master 2.3

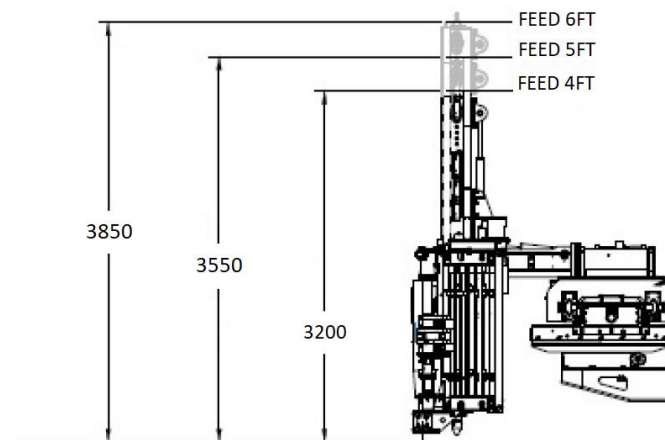


Production Master 2.3



POSITIONING SYSTEM

Lateral displacement	610 mm
Longitudinal displacement	2060 mm
Drilling table rotation	180°
Feeder rotation	360°
Feed dump	90° forward / -25° backward
1 front stinger (750mm stroke) + 1 back stinger (1450mm stroke)	
Angle indicating system in both planes	



FEEDER

CMAC series

Carrousel type rod handler enables to drill long holes and it is remotely controlled from safe operator's cabin (FOPS/ROPS certified).

Carrousel capacity	16+2 rods		
Rod type	speedrods R38, T38, T45, T51 (then carrousel for 12 rods)		
Feeder size	CF- 1219 (4ft)	CF- 1524 (5ft)	CF- 1828 (6ft)
Overall length	3 200 mm	3 550 mm	3 850 mm
Rod length	1 200 mm	1 500 mm	1 800mm

DRILLING CONTROL

- Working unit operated from the outside of the machine via bluetooth-controlled drilling panel installed on the tripod. Panel charged by a set of 2 batteries (charger installed on the machine).
 - 20m data cable included (back-up operation).
- *Remote drilling from outside of the cabin is suggested for better visibility of the drifter.*



Production Master 2.3

CARRIER

Diesel engine	Deutz TCD2012L04 - 95 kW @ 2300 rpm, liquid cooled, Stage IIIA
Tramming	Four wheel drive (Power shift)
Transmission	1203FT20300-170 Dana Off-Highway
Torque converter	Transmission integrated
Axles	113 Dana Off-Highway front (LS 45%) and rear (open)
Articulation	Danfoss – Orbitrol controlled by steering wheel
Brakes	Fail-safe, wet multi-disc service brakes with additional fail-safe emergency-parking brake
Tires	12.00 x 20
Fuel tank	100 l
Electrical control system	24 V
Battery	2 x 12 V
Driving lights	4 x 35W LED
Automatic centralized lubrication system	SKF
Hand pump to release parking/emergency brake	

HYDRAULIC SYSTEM

Hydraulic pump	Axial-piston with load sensing for percussion and two gear pump for rotation and feed
Percussion	160 bar
Feed	100 bar
Rotation	90 bar
Tank of oil with oil level indicator, return filter	260 l
Filtration	10 µm
Oil cooler	Water cooling system
Hydraulic oil	HV 68

WATER SYSTEM

Water booster pump	CRN15-16 (rotodynamic pump)
Max. capacity	150 lpm @ 22 bar
Min. inlet pressure	2 bar
Water hose reel capacity	80 m - 1" water hose included

AIR SYSTEM

On-board compressor (for upwards/side hole cleaning and shank lubrication)	Screw type
Capacity	3,0 m³/min

Production Master 2.3

Air tanks 3x45l

***External air supply (e.g. 12m³/min for 102mm hole) must be provided for downwards holes cleaning**

ELECTRICAL SYSTEM

Motor 75 kW

Voltage to suit customer's requirements

Starting method star/delta 380-690 V, direct on line 1000V

Working lights 4 x 35W LED

Cable reel capacity 80 m (*cable optional*)

Electric cable last turn lock stops machine while electric cable is fully pulled out

Compatible power network TN-S in standard; IT (system with additional "pilot") and TN-C-S *are optional*

ROCKDRILL

Montabert HC 112

Efficient drilling range 64-115mm

Shank adapter R38, T38, T45, T51

Weight 200 kg

Max. impact power 29 kW

Energy per blow 580 J

Max. percussion oil flow 190 lpm @ 160 bar

Max. rotation pressure 175 bar

Max. rotation oil flow 85 l/min

Max. rotation speed 169 rpm / 135 rpm / 122 rpm

Max. rotation torque 1116 Nm / 1392 Nm / 1755 Nm

client to select type of shank adaptor and required torque

ADDITIONAL EQUIPMENT INSTALLED ON THE MACHINE AS STANDARD

HYDRAULICALLY EXTENDED CANOPY provide tramming height of 2,45m (*with working unit positioned on side*) and working height of the carrier of 3,0m

24V ELECTRIC PUMP TO FILL UP HYDRAULIC OIL (FOR MAIN HYDRAULIC SYSTEM)

START-UP SET OF 2 SHANK ADAPTORS

LOW PRESSURE WATER REEL for working unit cleaning

LUBE REEL WITH PISTOL

OPTIONAL EQUIPMENT

CLOSED, AIR-CONDITIONED CABIN ALONG WITH "GOOSE NECK"	Provides minimum tramming height of 3,0m. "Goose neck*" for better drifter visibility is provided and operation from the cabin. <i>*working unit has different arrangement - feeder is rotated to provide necessary visibility of the drill string</i>
FIRE SUPPRESSION SYSTEM	ANSUL activated manually
FIRE SUPPRESSION SYSTEM WITH FLAME DETECTION	ANSUL with Checkfire, activated automatically
BY – PASS FILTRATION	Additional filtration of hydraulic system for both tramming and drilling systems (minimum 5 µm particles)
SPARE WHEEL	12.00 x 20" (including rim and tire)
ELECTRIC CABLE	4 or 5 wire - 80M (<i>plug can offered additionally after its specification is provided</i>)
EXTRA POWER OUTLET	230V, 50Hz, 16A – possible only with TN-C-S
REVERSE CAMERA	
RODS, BUTTON BITS	To receive a precise quote please provide information about required hole dia and rock parameters

OPTIONAL ROCKDRILL

Montabert HC 170 RP

Efficient drilling range	89-165mm
Shank adapter	T45, T51, CT60
Weight	max. 336 kg
Impact power	23.4 kW
Energy per blow	570 J
Max. percussion oil flow	160 lpm @ 180 bar
Max. rotation pressure	200 bar
Max. rotation oil flow	80 l/min
Rotation speed	130 rpm
Rotation torque	1590 Nm / 2000 Nm