

DR580

DTH drill



PERFORMANCE

Compressor

Working pressure, max	34.5 bar	500 psi
FAD, at 1800rpm max working pressure	637 l/s	1350 cfm
FAD, at 2100rpm 350 psi (24.1 bar)	743 l/s	1575 cfm

Hole Range

Hammer size, min	102 mm	4 in
Hole depth, carousel	42.6 m	140 ft
Hole size, max	216 mm	8.5 in
Hole size, min	114 mm	4.5 in

Engine

Turbo charged, diesel engine	QSK 23	Tier II
Power rating at 1800 rpm	708 kW	950 HP
Radiator (max cooling capacity)	52°C	125°F

Tramming

Tramming speed, high gear	5 km/h	3.1 mph
Gradeability	35%	
Brakes	SAHR	
Track oscillation (independent)	±10°	
Ground clearance	530 mm	21 in



Standard Specifications

Carrier		
Hi-Intensity discharge lighting system (9 lights)		
Warning lamp and reverse buzzer		
Ground level engine start/stop at tram step		
Battery disconnect switch		
Caterpillar® chassis and triple grouser shoes		
Fixed winch		

Dust Suppression: Water Injection System		
Triplex pump	0-45 lpm	0-12 gpm
Holding tank capacity	1135 l	300 US gal

Engine		
Turbo charged, diesel engine	QSK 23	Tier II
Power rating at 1800 rpm	708 kW	950 HP
Radiator (max cooling capacity)	52°C	125°F

Feed		
Feed rate, max	1.3 m/s	257 ft/min
Hoisting, max	47 kN	10 600 lbf
Pull-down, max	47 kN	10 600 lbf
Total Length	10 185mm	33' 5"
Travel Length	7 315mm	24'
Feed Extension	1 371 mm	4' 6"

Breakout System		
Jaw rotation	15°	
Clamping force	288 kN	64 800 lbf

Top Drive		
Rotation torque	5730 Nm	4225 ft-lbs
Rotation speed	0 - 80 rpm ∞ variable	

Compressor		
Two stage screw type compressor		
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Electrical System	
Voltage	24V
Batteries	4x 12V, 190 Ah
Alternator	CAT 24V 100 Ah
Lights	
Front	5x 55W HID 2x 6
Rear	2x 65W
Side	2x 55W HID

Carousel		
Capacity, standard	6 rods	
Rod size, max	127 mm	5 in
Rod size, min	89 mm	3.5 in
Rod length	6,1 m	20 ft

Hydraulic System		
Hydraulic oil cooler		
Upper design temperature	52°C	125°F
Pumps		
Axial piston pump 1	100 cc/rev	6.1 cu in/rev
Axial piston pump 2	100 cc/rev	6.1 cu in/rev
Axial piston pump 3	75 cc/rev	4.6 cu in/rev
Return and pressure filters (3 x 2 filters)		
Filtration rate	5 µm absolute	

Hammer Lubrication		
Positive metering of either:	type 000NLG1	
• Grease lubricant		
• Rock drill oil		
Metering capacity, max	1 500 cc/hr	91.5 cu in/hr
Metering capacity, min	60 cc/hr	3.7 cu in/hr

Volumes		
Hydraulic oil tank	303 L	80 US gal
Compressor oil	140 L	37 US gal
Diesel engine , fuel tank	1 400 L	370 US gal
Hammer lubrication tank	20 L	5.3 US gal

Safety Cabin
Boom mounted with lateral swing and leveling control
FOPS approved
Sound insulated (<82 dB)
Fully adjustable Operator's seat with vibration isolators
Trainer's fold up seat
360° Viewing windows
Safety glass with removable escape window
3 x wipers with washer (front shield and roof)
Color touch screen operating system
Electric combined inclination/hole depth instr.
Cabin light
12V outlet
CD player with Bose speakers (Satellite Radio Compatible)
Air Conditioner (14,400 btu cooling, 28,000 btu heating)

Controls
Electric/hydraulic controls
Manual override, on tram step
Can-Bus controller/computer

Selection of Optional Equipment

Carousel Option

Carousel	Pipe diameter (for 20' pipe)	
8 Drill Pipe	89 or 102 mm	3.5 or 4 in.

Fire Suppression Options

Automatic	Ansul System - 10 nozzles	
Manual	Ansul System - 10 nozzles	

Winterization Package Options

Tier I Winterization 52°C to -15°C (126°F to -5°F)
Tier II Winterization 52°C to -40°C (126°F to -40°F)

Lubrication Options

Centralized manual lubrication
Auto lubrication (Lincoln 69 point)

Reverse Circulation Option

- Complete Sandvik rotational cone splitter with hydraulic leveling arm
- Reverse circulation 6240 top drive, complete with RC ceramic swivel
- Discharge hose

Dust Suppression Option: Dust Collection

Dust collector blower capacity	1888 l/s	4000 cfm
Cycle time adjustment	0.5 to 5 seconds	
Filters	6	

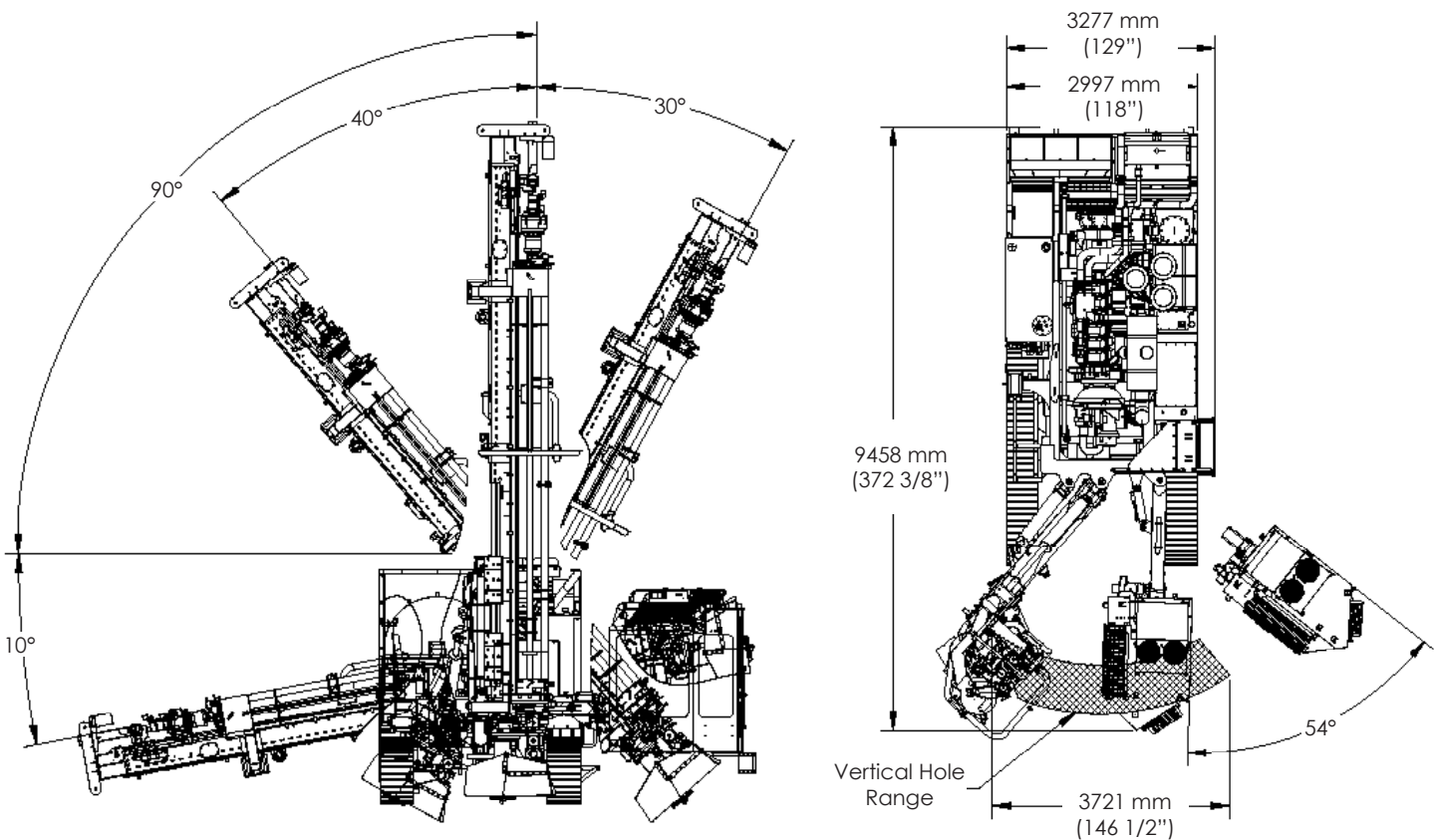
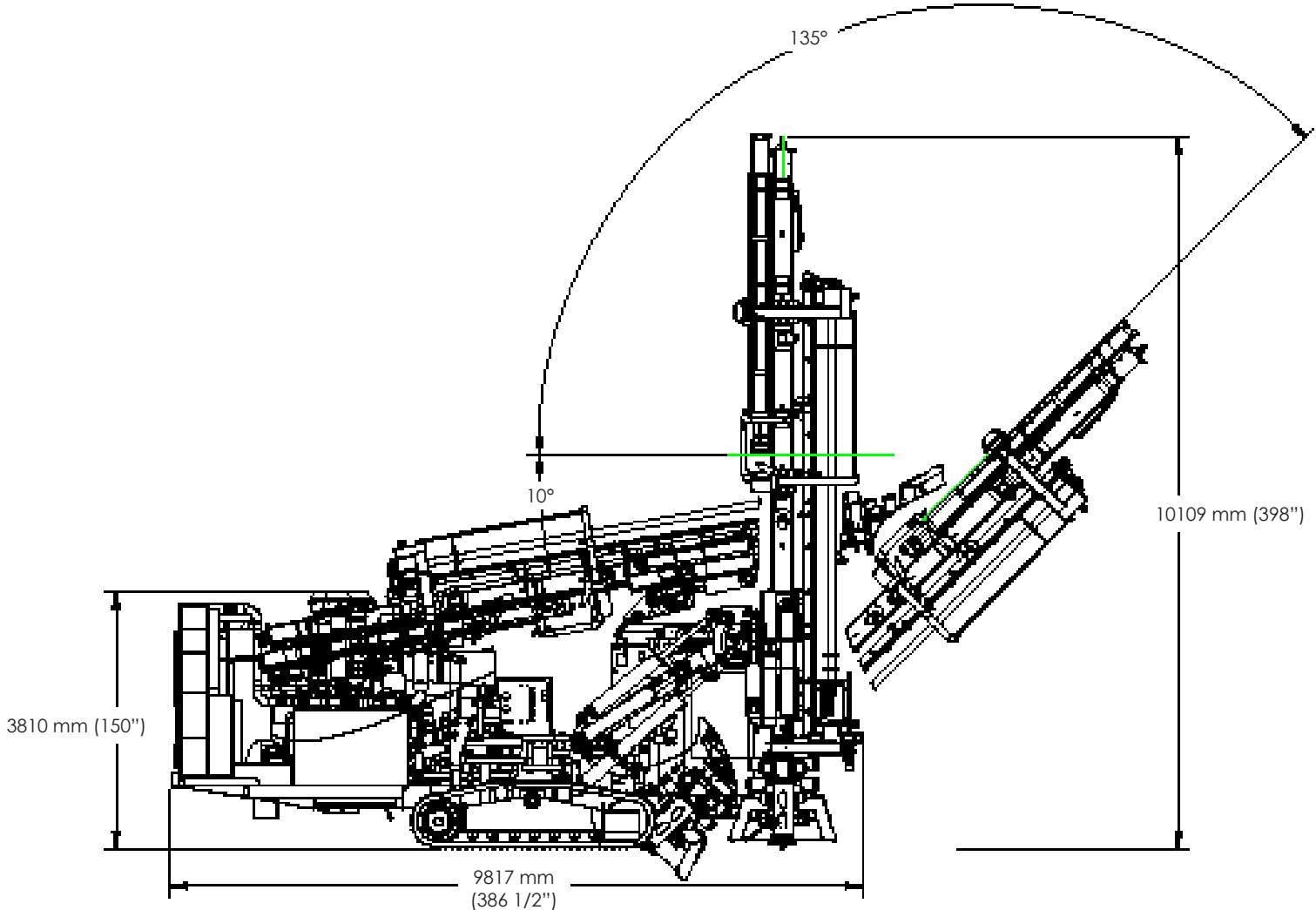
Additional Options

- Air Conditioner / Heater upgrade to Sigma TDR-7
- Angle indicators
- Cab floor heater
- Data Communication System
- Depth laser
- Fast filling and evacuation system for fuel only
- Fast filling and evacuation system for engine oil, hydraulic oil, transmission oil coolant, fuel
- On-board pressure washer
- Petrol chain wrench
- Portable fire suppression
- RPM indicator for top drive
- Stainless steel electrical panel
- Tools to specifications

Transport and Dimensional Specifications

Transport

Height	3 800 mm	150 in
Length	11 405 mm	449 in
Width	3 000 mm	118 in
Weight excluding options (wet, incl drill pipes)	33 112 kg	73 000 lbs



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