

DR540

DTH drill



Performance

Compressor

Working pressure, max	34.5 bar	500 psi
FAD, at 1800rpm max working pressure	425 l/s	900 cfm
FAD, at 2100rpm 350 psi (24.1 bar)	496 l/s	1 050 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

Caterpillar turbo charged, diesel engine	CAT C15	Tier III
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Engine

Power rating at 1800 rpm	403 kW	540 HP
Mesabi 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	CAT C15	Tier III
Power rating at 1800 rpm	403 kW	540 HP
Mesabi 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
Pulldown, 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		
Working pressure, max	34.5 bar	500 psi
FAD, at 1800 rpm max working pressure	425 l/s	900 cfm
FAD, at 2100 rpm 350 psi (24.1 bar) working pressure	496 l/s	1 050 cfm

Electrical System	
Voltage	24V
Batteries	2x 12V, 190 Ah
Alternator	CAT 24V 100 Ah
Lights	
<i>Front</i>	5x 55W HID 2x 6
<i>Rear</i>	2x 65W
<i>Side</i>	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	71 cc/rev	4.3 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

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	1416 l/s	3000 cfm
Cycle time adjustment	0.5 to 5 seconds	
Filters	4	

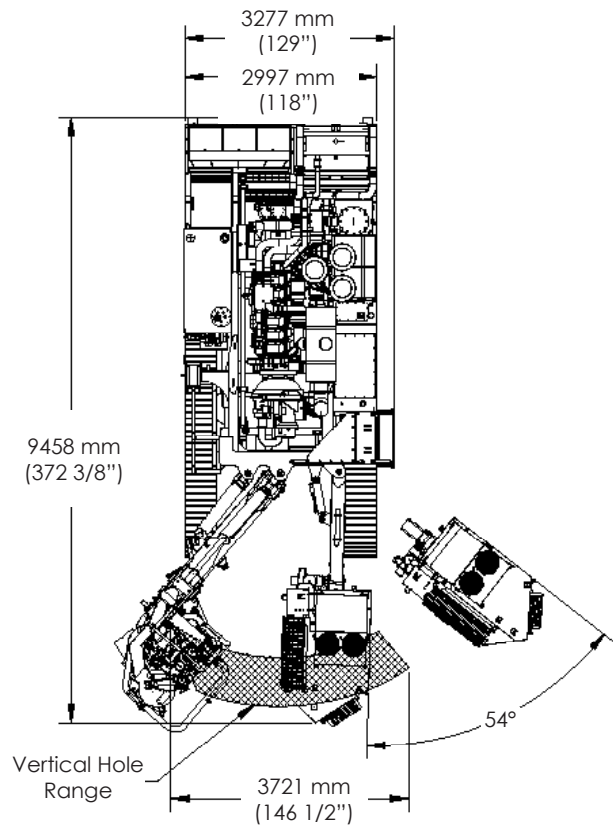
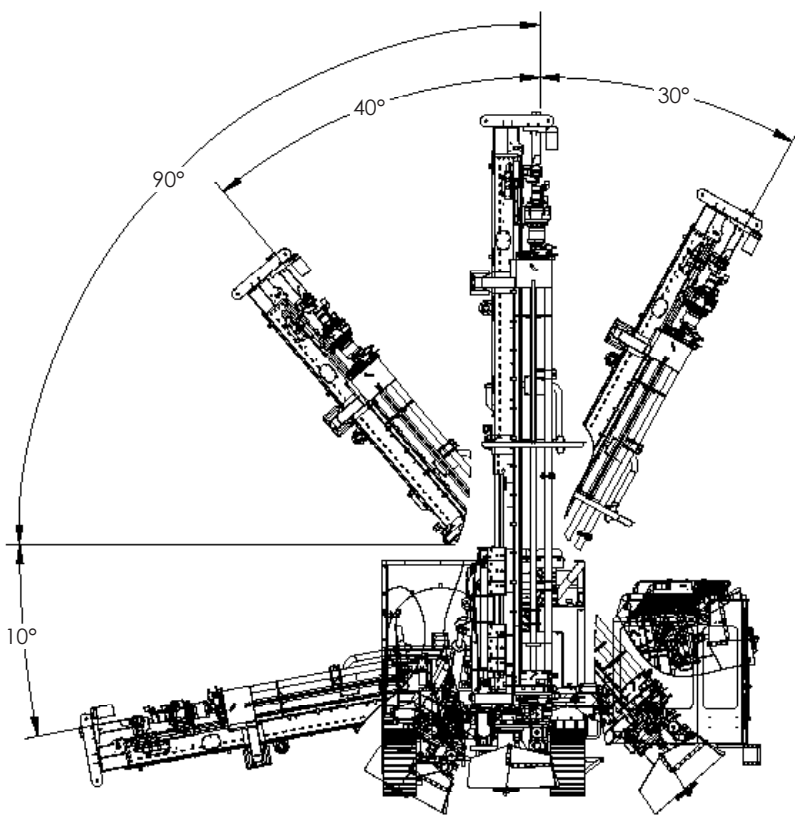
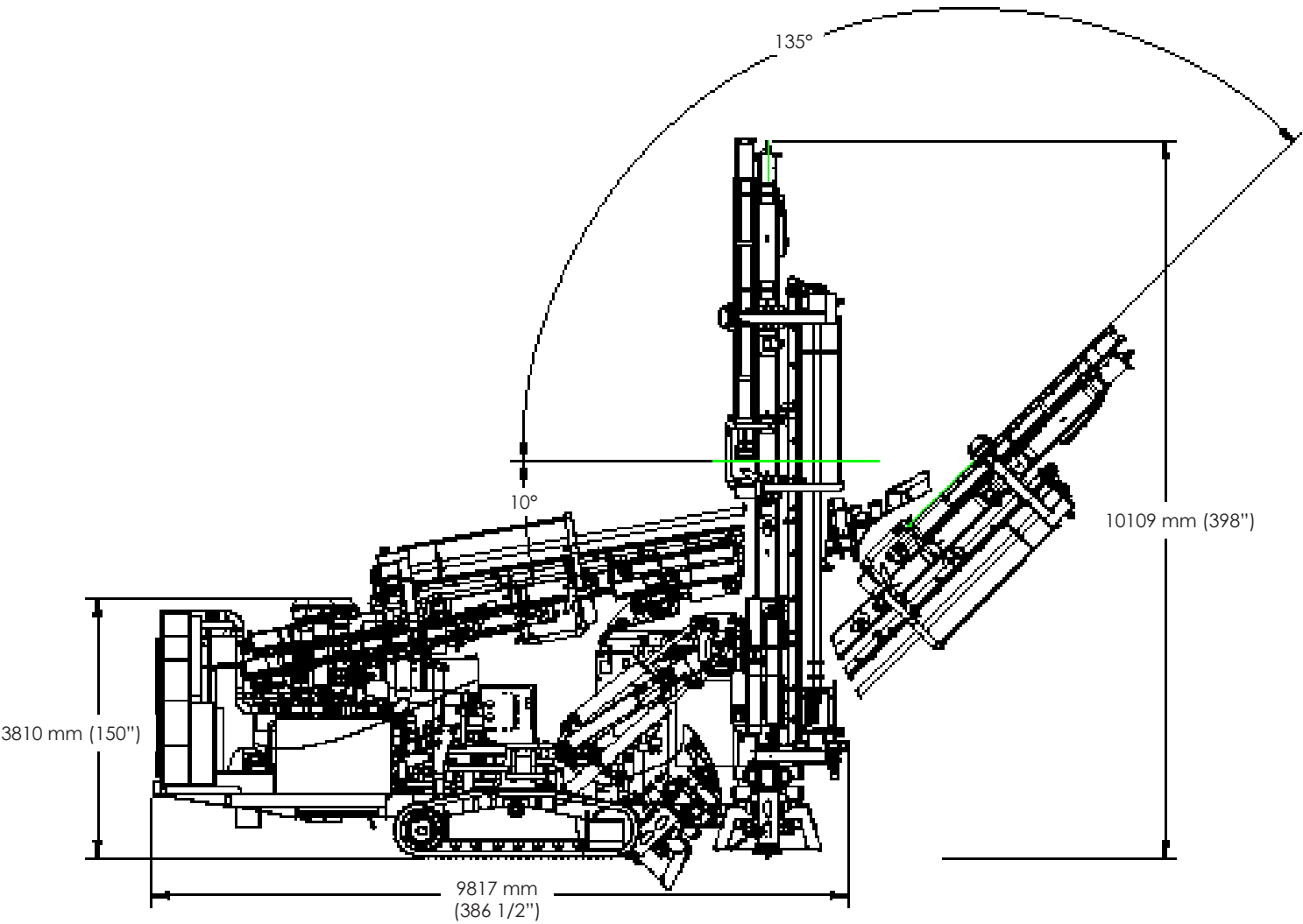
Additional Options

- 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	3 810 mm	150 in
Length	11 405 mm	449 in
Width	3 000 mm	118 in
Weight excluding options (wet, incl. drill pipes)	30 845 kg	68 000 lbs



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