



# RSD150

SURFACE DRILL RIGS





# Maximum Performance in Surface Drilling.

The Rhino RSD150 Surface Drill Rig is engineered to deliver precision, productivity, and reliability in demanding mining and construction operations. Its advanced drilling technology, high-performance hydraulic system, and intelligent controls help maximize operational efficiency, reduce cycle times, and maintain consistent performance even in the most challenging working conditions.



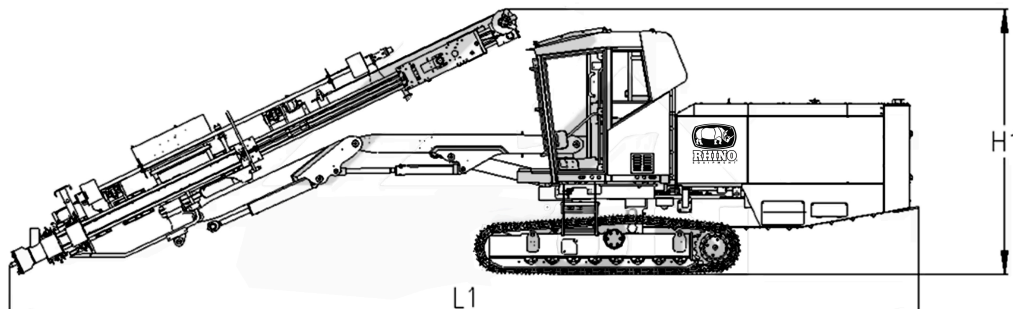
1. Ergonomic cabin with climate control and optimized visibility, designed to provide operator comfort, safety, and excellent visibility of the work area during long operating hours.
2. High-resolution multifunction LCD display that provides intuitive access to drilling parameters, machine monitoring, real-time diagnostics, and critical operational data to maximize productivity.
3. High-precision ergonomic control system that enables smooth and accurate drilling movements, reducing operator fatigue while improving control, precision, and efficiency in every operation.

## ENGINE & POWERTRAIN

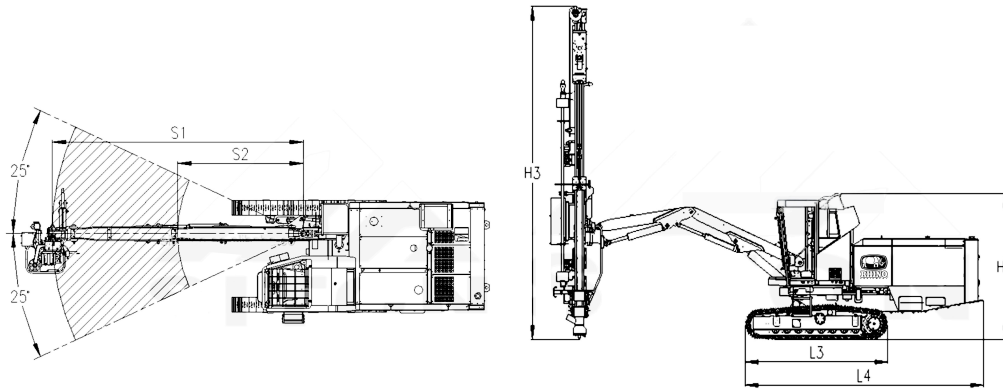
Diesel Engine Brand	RHINO RSD242 / Cummins QSB6.7
Rated Engine Power kW (hp)	242 (324.5) / 193 (258.8)
Number of Cylinders	6 cylinders in-line
Displacement L (in <sup>3</sup> )	8.9 (543)
Engine Power kW (HP)	268 (359.4) / 239 (320)
Maximum Torque Nm (lb-ft)	1,610 (1,187) / 1,420 (1,047)
Rated Speed rpm	2,100
Cooling System Type	Liquid (water/glycol) with air-to-air aftercooler (CAC)
Exhaust Emissions Standard	Tier 3 / Stage III
Drive Type	Crawler (Track)
Maximum Travel Speed km/h (mph)	3.5 (2.2) / 3.2 (2.0)
Maximum Traction Force kN (lbf)	137 (30,799) / 110 (24,730)
Gradeability — Max Slope ° (%)	25 (46.6) / 20 (36.4)
Track Oscillation Angle (°)	±10
Ground Pressure MPa (psi)	0.085 (12.3)
Fuel Tank Capacity L (gal)	350 (92.5)
Estimated Fuel Consumption L/h (gal/h)	26 – 34 (6.8 – 9.0)

## HYDRAULIC SYSTEM

Main Pump Type	Double variable-displacement piston + Gear
Hydraulic Pump Type	Axial piston variable-displacement
Main Pump Flow L/min (gpm)	240–310 (63–82)
Maximum System Pressure MPa (psi)	25 (3,626)
Hydraulic System Control	Electro-hydraulic pilot / Proportional
Hydraulic Tank Capacity L (gal)	250 (66.0)

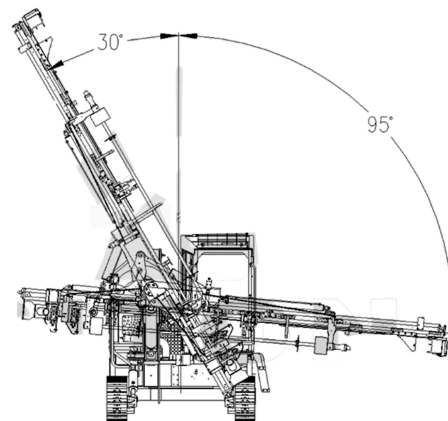
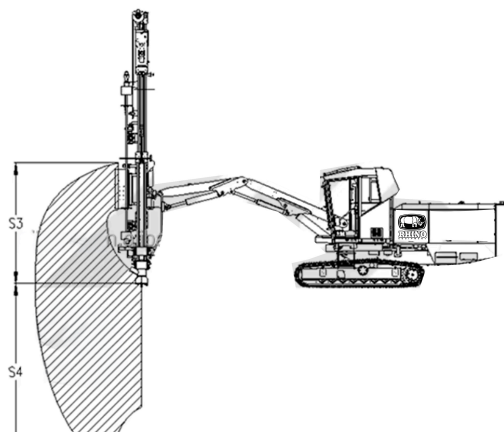


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## FEED & BOOM COVERAGE MECHANISM

Hydraulic Rock Drill Model	A20A (Standard) / A25A/X (Optional)
Rock Drill Impact Power kW (hp)	20 (26.8) / 25 (33.5)
Impact Frequency Hz (bpm)	42–50 (2,520–3,000) / 44–55 (2,640–3,300)
Recommended Drilling Diameter mm (in)	64–127 (2.52–5.00)
Drill Rod Thread Type	T38 / T45 / T51
Drill Rod Length mm (ft)	3,660 / 4,265 (12.01 / 14.00)
Maximum Drilling Depth mm (ft)	28,000 (91.86)
Boom Linear Extension mm (ft)	1,236 (4.06)
Boom Elevation Angle (°)	+50° / -20°
Boom Swing Angle Left/Right (°)	25° / 25° (Total 50°)
Feed Tilt Angle (°)	30° forward / 95° rear (Total 125°)
Feed Swing Angle (°)	+35° / -90°
Maximum Feed Force kN (lbf)	20 (4,496)
Maximum Rod Extraction Force kN (lbf)	35 (7,868)
Maximum Feed Speed m/s (ft/s)	0.7 (2.3)



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## ELECTRICAL SYSTEM (OPERATION)

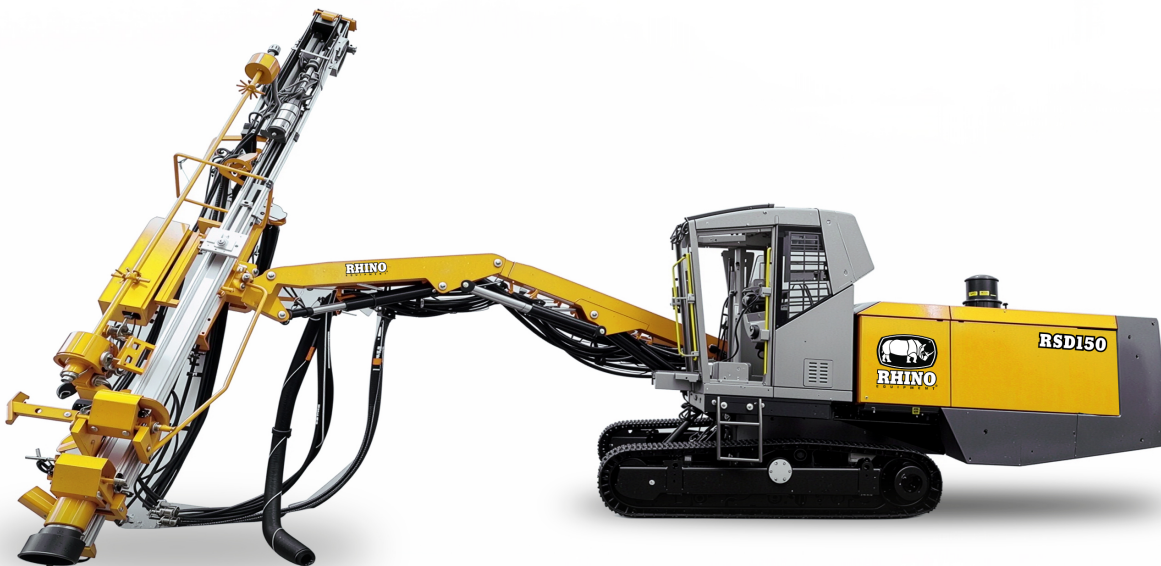
Electrical System Voltage V	380
Alternator Capacity A	80
Battery Configuration	2 × 12V, 120 Ah
Lighting System	High-intensity LED work light assembly

## WATER & AIR SYSTEM

Air Compressor Type	High-pressure rotary screw
Compressor Discharge Pressure MPa (psi)	1.05 (152.3)
Compressor Air Flow m <sup>3</sup> /min (cfm)	10 (353.1)
Borehole Blow/Flushing Air Pressure MPa (psi)	0.7–1.05 (101.5–152.3)
Air Consumption for Drill Lubrication m <sup>3</sup> /min (cfm)	0.3–0.5 (10.6–17.6)
Dust Collection System	Dry two-stage dust collector
Dust Filtration Efficiency (%)	≥99

## AUTOMATION, CONTROL & CONNECTIVITY

Rod Handling System (Rod Changer)	Automatic (7+1 rod carousel)
Rod Centralizer Type	Dual-rod support
Control Lever Type	Multi-function joysticks
In-cab Monitoring	12-inch HD display
Anti-jamming System	Automatic real-time operational state detection



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## CAB, ERGONOMICS & SAFETY

Cab Safety Structure	Integrated FOPS & ROPS certified
In-cab Noise Level dB(A)	≤80
Climate Control System	Air conditioning, heating and pressurized fresh air
Operator Visibility	Triple-layer blast-resistant laminated glass
Active Safety / Inclinometer	Multi-camera reversing image & audio alarm system
Emergency Stops (E-Stops)	4 points (Cab, engine, feed beam and console)

## DIMENSIONS, WEIGHT & FILL CAPACITIES

Total Transport Length mm (ft)	11,570 (37.96)
Total Transport Width mm (ft)	2,487 (8.16)
Total Transport Height mm (ft)	3,381 (11.09)
Feed Beam Length mm (ft)	7,527 (24.69)
Thread Lubricant Tank Capacity L (gal)	10 (2.64)
Engine Cooling System Capacity L (gal)	35 (9.2)
Full Operating Weight kg (lbs)	15,000 (33,069.3)
Maximum Horizontal Boom Coverage mm (ft)	5,536 (18.16)
Boom Retraction Distance mm (ft)	2,791 (9.16)
Upper Coverage Height (Boom Top) mm (ft)	3,136 (10.29)
Lower Coverage Depth (Boom Bottom) mm (ft)	4,816 (15.80)
Maximum Total Length in Alternate Transport mm (ft)	12,350 (40.52)
Nominal Track Shoe Width mm (ft)	560 (1.84)
Maximum Height in Low Transport Position mm (ft)	3,491 (11.45)
Maximum Total Height with Vertical Feed mm (ft)	7,177 (23.55)
Fixed Height to Cab Top mm (ft)	3,141 (10.31)
Travel Beam Width mm (ft)	330 (1.08)