



RBR-210

ROCK BOLTING RIG





Designed for High-Performance Drilling, Built with Precision.

The Rhino RBR-210 Hydraulic Roof Bolter is engineered with advanced features that maximize productivity, increase uptime, and reduce operating costs in demanding underground mining applications. A high-power drilling system, optimized feed controls, and operator-focused technology enable faster drilling cycles and exceptional efficiency in tunnel development and ground support operations.



1. Automotive-style climate control system with adjustable air vents helps keep windows clear and the cab comfortable.
2. Advanced LCD monitor provides intuitive access to a wide range of operational, drilling, and diagnostic data and functions.
3. Ergonomically designed controls within easy reach deliver smooth, precise operation, reducing operator effort while ensuring reliable performance during drilling activities.

ENGINE AND POWERTRAIN (CARRIER)

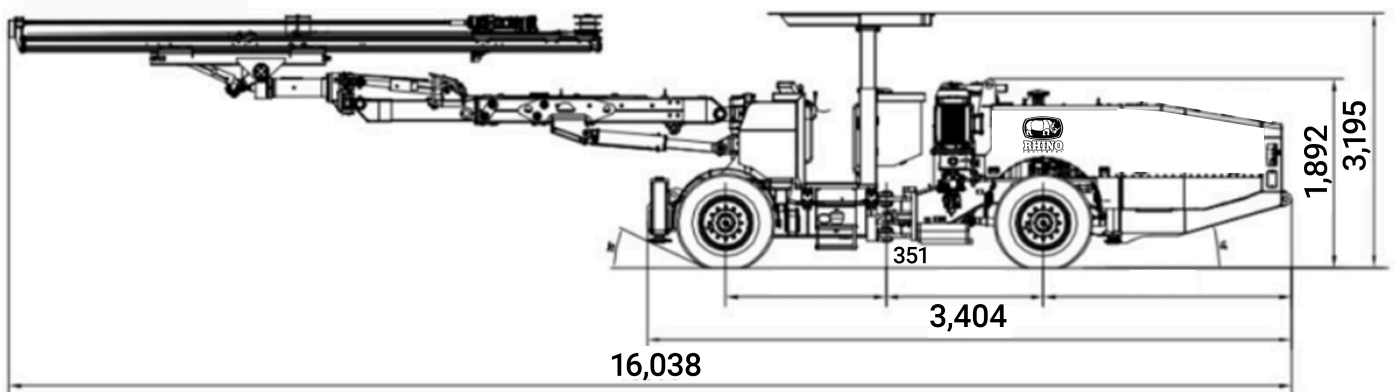
Engine brand	RHINO RBR 100T / Cummins QSF3.8
Engine power kW (HP) @ RPM	100 (134) @ 2,200 / 92 (123.4) @ 2,200
Emissions certification	Tier 3 / Stage III
Transmission and steering type	Hydrostatic / Articulated (Steering angle $\pm 40^\circ$)
Exhaust after-treatment system type	Oxidation catalytic purifier and muffler
Axle type	Heavy-duty axles with $\pm 7^\circ$ rear oscillation
Maximum gradeability (%)	14° (25%)
Approach angle (°)	21
Departure angle (°)	14
Tires (in)	9.00R20 / 9.00R20
Fuel tank L (gal)	70 (18.49)
Stabilizers	4 hydraulic leveling units

HYDRAULIC SYSTEM

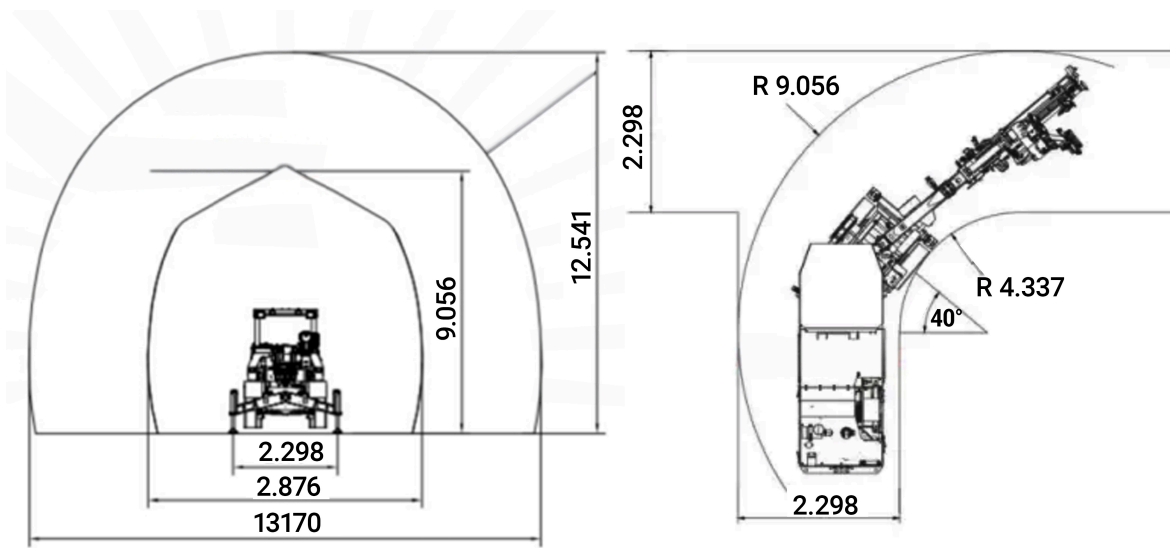
Power unit (Powerpack) kW (HP)	60 (80.5)
Pump type	Variable flow piston pumps / Direct control system
Maximum pressure bar (psi)	250 (3625.94)
Hydraulic tank reservoir / capacity L (gal)	200 (52.83)
Pressure filtration (μm)	10
Hydraulic oil cooler kW (HP)	High-efficiency water cooler
Hydraulic protection	Automatic return system / Hydraulic anti-jamming

DIMENSIONS AND WEIGHT

Total / transport length mm (ft)	16,038 (52.62)
Chassis length mm (ft)	6,940 (22.77)
Transport width mm (ft)	2,298 (7.54)
Width with stabilizers mm (ft)	2,876 (9.44)
Transport height mm (ft)	2,392 (7.85)
Operating height mm (ft)	3,195 (10.48)
Wheelbase mm (ft)	3,404 (11.17)
Ground clearance mm (in)	351 (13.82)
Inner turning radius mm (ft)	4,337 (14.23)
Outer turning radius mm (ft)	9,056 (29.71)
Internal / extended vertical coverage mm (ft)	8,746 / 12,554 (28.69 / 41.19)
Maximum absolute height reach mm (ft)	12,541 (41.15)
Minimum chassis structural height mm (ft)	1,892 (6.21)
Beam frontal projection in transport mm (ft)	4,938 (16.20)
Drilling depth below ground level mm (ft)	1,247 (4.09)
Maximum forward horizontal boom reach mm (ft)	9,185 (30.13)
Canopy width mm (ft)	1,676 (5.50)
Lower horizontal coverage radius mm (ft)	5,745 (18.85)
Total operating weight kg (lb)	21,000 (46,297.1)



Equipment specifications and images may change without notice from Rhino Equipment Group Inc.



DRIFTER (ROCK DRILL)

Drill model	WOSERLD A22L/D
Impact power kW (HP)	22 (29.5)
Percussion pressure bar (psi)	180 (2610.68)
Percussion frequency Hz (bpm)	60 (3600)
Rotation speed (rpm)	0 - 300
Rotation torque Nm (lb-ft)	625 (460.98)
Shank adapter (Shank)	T38/T45
Anti-jamming technology	Automatic feed pressure control (DPR)
Drill weight kg (lb)	140 (308.65)



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BOOM AND FEED BEAM (INCLUDES BOLTING HEAD)

Module / boom model	Heavy-duty drilling boom with automatic parallelism
Number of booms	1 (Single-boom)
Boom telescopic extension mm (ft)	1500 (4.92)
Boom lateral swing (°)	±35°
Beam rotation / Roll-over (°)	360°
Feed compensation mm (in)	400 (15.75)
Propulsion / feed force kN (lbf)	15 (3372.1)
Number of stingers	1 (Integrated front support stinger)
Drilling diameter mm (in)	Ø 43 - 76 (Ø 1.69 - 2.99)
Hole depth mm (ft)	3,400 - 5,200 (11.15 - 17.06)
Drill rod length mm (ft)	3,700 - 5,525 (12.14 - 18.13)
Drilling speed m/min (ft/min)	0.8 - 2 (2.62 - 6.56)
Bolt length mm (ft)	1,800 - 3,000 (5.91 - 9.84)
Bolt thread pitch / thread type	T38 / R32
Bolt loader capacity (Units)	10 units (Carousel-type loader/Rod Bank)
Compatible bolt types	Friction bolts (Split-set), resin bolts, helical bars
Full bolting cycle time min (s)	2.5 - 3.5 (150 - 210)
Resin / grout injection system type	Resin cartridge injection system / pneumatic blowing
Water/air drill flushing system	Integrated high-pressure bottom-of-hole flushing
Head automation	Semi-automated (rod handling from controls)

APPLICATION AND SEGMENT

Drilling type	Development drilling and rock bolting
Min. working coverage m × m (ft × ft)	3.6 × 3.6 (11.81 × 11.81)
Max. working coverage m × m (ft × ft)	11.5 × 8.8 / 16.1 × 12.6 (37.73 × 28.87 / 52.82 × 41.34)
Maximum coverage area m ² (ft ²)	101.20 (1,089.31)
Tunnel design section mm (ft)	4,100 × 4,100 to 10,100 × 8,100 (13.45 × 13.45 to 33.14 × 26.57)
Gallery crossing width mm (ft)	4,600 (15.09)
Target segment	Small, medium and large underground tunnels and mines

WATER AND AIR SYSTEM

Compressor type	Electrically driven screw compressor
Compressor power kW (HP)	6 (8.05)
Air flow rate m ³ /min (L/s / cfm)	0.9 (15 / 31.7)
Air pressure bar (psi)	8 (116)
Water pump type	High-pressure centrifugal pump
Pump power kW (HP)	2 (2.68)
Water flow rate L/min (gpm)	50 (13.2)
Maximum water / washdown pressure bar (psi)	25 (362.5)

AUTOMATION AND DIGITAL SYSTEMS

Control system	Direct pilot-operated hydraulic control
Operation type	Manual control assisted by hydraulic joysticks
HMI automation	Control panel with analog / digital pressure indicators



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ELECTRICAL SYSTEM

Installed power kW (HP)	70 (93.87)
Main electric motor kW (HP)	75 (100.5)
Voltage / Frequency V / Hz	440V / 60Hz
Starting method	Standard Star-Delta
Cable reel / Length m (ft)	80 (262.47)
Electrical insulation monitoring device (Ground Fault)	Included as standard
Electric battery V (AH)	24V 100Ah

CAB, ERGONOMICS AND SAFETY

Cab / canopy certification (ROPS / FOPS Level II)	FOPS / ROPS
Operator seat	Adjustable ergonomic seat with seatbelt
Cab type	Height-adjustable cab (movable roof)
Roof adjustment range / Max. coverage height mm (ft)	Safety roof raised via hydraulic cylinders
Cab noise level dB(A)	≤ 105
Mesh Handler	Universal mesh handling arm (optional per order)
Electrical protection	Overload relays, differential switch and line monitoring
Fire suppression system / Portable extinguisher	Portable fire extinguisher (exterior mounted)
Horn (Claxon) and Reverse alarm	Reverse acoustic alarm and electric horn
Strobe lights	Warning strobe beacon on rear roof
Exhaust catalyst and muffler	Heavy-duty diesel exhaust catalytic purifier
Chassis leveling element	Visual bubble level indicator at control station