



RBR-168

ROCK BOLTING RIG





Designed for High-Performance Drilling, Built with Precision.

The Rhino RBR-168 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)

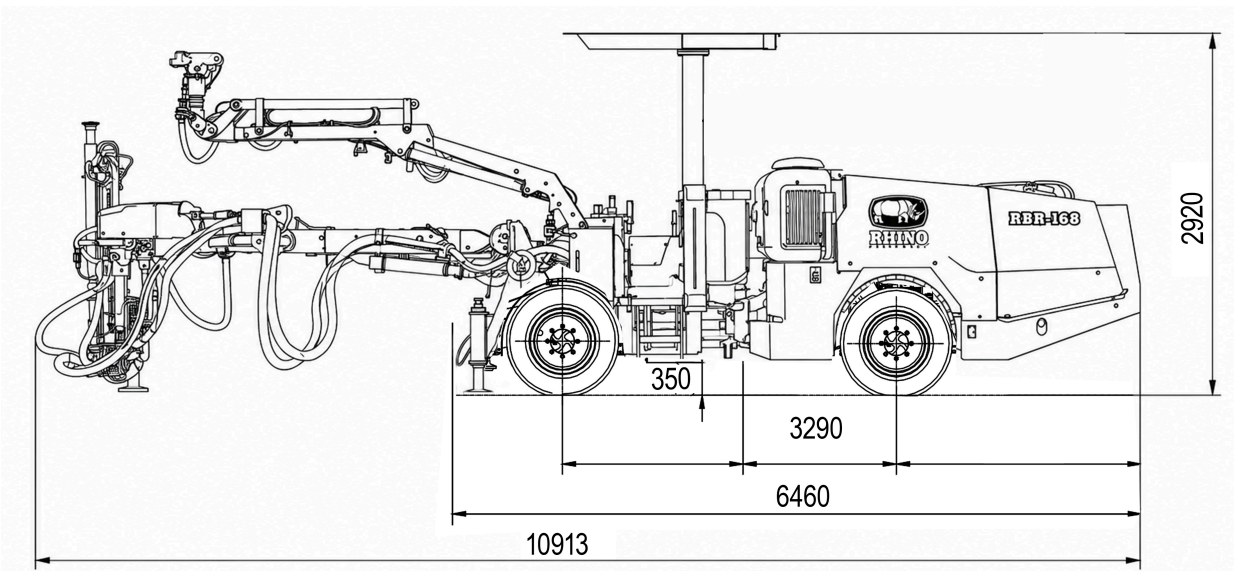
Engine brand	RHINO RBR 134T / Cummins QSB4.5
Engine power kW (HP) @ RPM	134 (180) @ 2200 / 119 (160) @ 2200
Emissions certification	Euro Stage III
Transmission and steering type	Hydrostatic transmission and assisted articulated steering
Exhaust after-treatment system type (DPF / SCR)	Catalyst / Muffler
Axle type	Heavy-duty wet-type axles
Maximum gradeability (%)	24.93
Approach angle (°)	20 / 20
Departure angle (°)	17 / 17
Tires (in)	9.00R20 / 9.00R20
Fuel tank L (gal)	90 (23.78)
Stabilizers	2 extendable front and 2 rear
Optional altitude configuration	Plateau type available for high altitude

HYDRAULIC SYSTEM

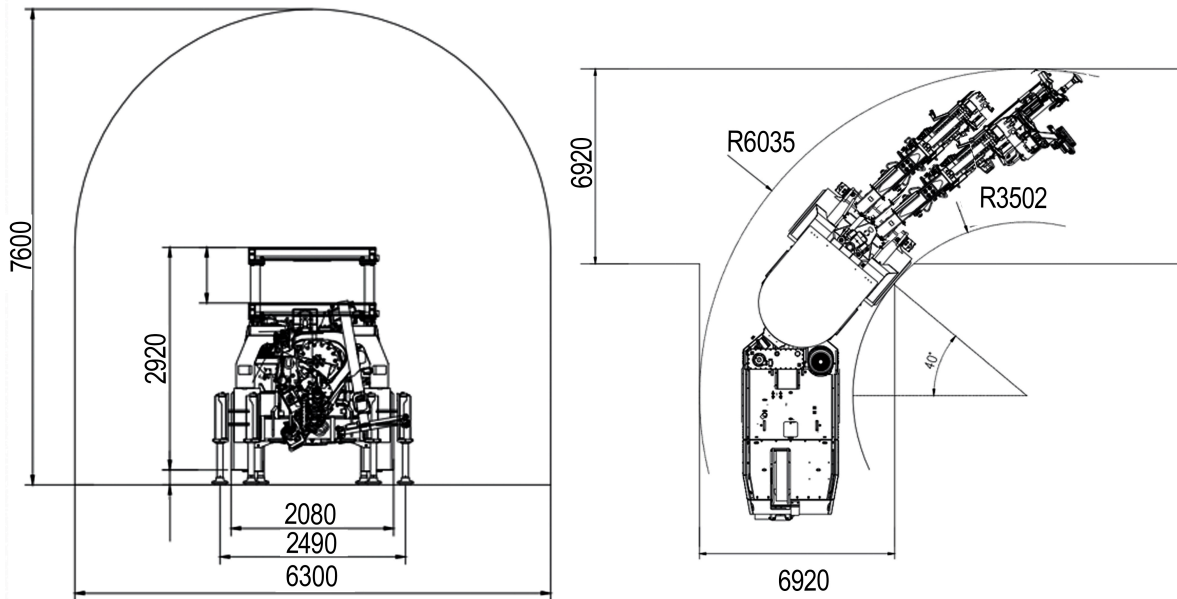
Power unit (Powerpack) kW (HP)	55 (73.76)
Pump type	Pumps for impact, positioning, propulsion and rotation
Maximum pressure bar (psi)	220 (3190.83)
Hydraulic tank reservoir / capacity L (gal)	200 (52.83)
Pressure filtration (µm)	10 / 10
Hydraulic oil cooler kW (HP)	Stainless steel water cooler
Hydraulic protection	Low level indicator with automatic shutdown and temperature indicator

DIMENSIONS AND WEIGHT

Total / transport length mm (ft)	10913 (35.80)
Chassis length mm (ft)	6460 (21.19)
Transport width mm (ft)	2080 (6.82)
Width with stabilizers mm (ft)	2490 (8.17)
Transport height mm (ft)	2190 (7.19)
Operating height mm (ft)	2920 (9.58)
Wheelbase mm (ft)	3290 (10.79)
Ground clearance mm (in)	350 (13.78)
Inner turning radius mm (ft)	3502 (11.49)
Outer turning radius mm (ft)	6035 (19.80)
Internal / extended vertical coverage mm (ft)	1050 (3.44)
Maximum absolute height reach mm (ft)	7640 (25.07)
Minimum chassis structural height mm (ft)	1810 (5.94)
Beam frontal projection in transport mm (ft)	1520 (4.99)
Drilling depth below ground level mm (ft)	810 (2.66)
Maximum forward horizontal boom reach mm (ft)	8010 (26.28)
Canopy width mm (ft)	1260 (4.13)
Lower horizontal coverage radius mm (ft)	5160 (16.93)
Total operating weight kg (lb)	16800 (37037.66)



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



DRIFTER (ROCK DRILL)

Drill model	WOSERLD M8B/D or M10B/D
Impact power kW (HP)	8 (10.73) or 10 (13.41)
Percussion pressure bar (psi)	15 (217.56) or 16 (232.06)
Percussion frequency Hz (bpm)	47 - 65 (2820 - 3900)
Rotation speed (rpm)	300 / 300
Rotation torque Nm (lb-ft)	401 (295.76) or 482 (355.50)
Shank adapter (Shank)	R32 / R32
Anti-jamming technology	Direct hydraulic control with automatic anti-jamming function
Drill weight kg (lb)	71 (156.53) or 103 (227.08)



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BOOM AND FEED BEAM (INCLUDES BOLTING HEAD)

Module / boom model	Heavy-duty SB Series
Number of booms	1
Boom telescopic extension mm (ft)	1200 (3.94)
Boom lateral swing (°)	±38 / ±38
Beam rotation / Roll-over (°)	±180 / ±180
Feed compensation mm (in)	410 (16.14)
Propulsion / feed force kN (lbf)	7.5 (1686.07)
Number of stingers	1
Drilling diameter mm (in)	32 - 64 (1.26 - 2.52)
Hole depth mm (ft)	1950 - 2460 (6.40 - 8.07)
Drill rod length mm (ft)	2175 - 2700 (7.14 - 8.86)
Drilling speed m/min (ft/min)	0.8 - 2 (2.62 - 6.56)
Bolt length mm (ft)	1500 - 2500 (4.92 - 8.20)
Bolt thread pitch / thread type	R32 / R32
Bolt loader capacity (Units)	10 (Split set) or 10 (Resin) or 6 + 6 (Combined simultaneously)
Compatible bolt types	Split set or resin bolts
Full bolting cycle time min (s)	2 - 3 (120 - 180)
Resin / grout injection system type	Resin cartridge transport and injection system
Water/air drill flushing system	Yes
Head automation	Mechanical sequencing via control lever actuation

APPLICATION AND SEGMENT

Drilling type	Rock bolting
Min. working coverage m × m (ft × ft)	4.5 × 4.5 (14.76 × 14.76)
Max. working coverage m × m (ft × ft)	6.3 × 7.6 (20.67 × 24.93)
Maximum coverage area m ² (ft ²)	45 (484.38)
Tunnel design section mm (ft)	6300 × 7600 (20.67 × 24.93)
Gallery crossing width mm (ft)	6920 (22.70)
Target segment	Medium to large sized galleries

WATER AND AIR SYSTEM

Compressor type	Screw type
Compressor power kW (HP)	5.5 (7.38)
Air flow rate m ³ /min (L/s / cfm)	0.70 (11.6 / 24.58)
Air pressure bar (psi)	8 (116.03)
Water pump type	Centrifugal
Pump power kW (HP)	1.5 (2.01)
Water flow rate L/min (gpm)	50 (13.21)
Maximum water / washdown pressure bar (psi)	25 (362.59)

AUTOMATION AND DIGITAL SYSTEMS

Control system	Classic direct hydraulic control
Operation type	Manual via direct hydraulic levers
HMI automation	Digital voltage and current meters in cabinet



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ELECTRICAL SYSTEM

Installed power kW (HP)	62 (83.14)
Main electric motor kW (HP)	55 (73.76)
Voltage / Frequency V / Hz	380 / 50
Starting method	Star / Delta
Cabinet protection (IP)	55 / 55
Cable reel / Length m (ft)	80 (262.47)
Electrical insulation monitoring device (Ground Fault)	Yes
Electric battery V (AH)	24 - 120

CAB, ERGONOMICS AND SAFETY

Cab / canopy certification (ROPS / FOPS Level II)	FOPS/ROPS Approved
Operator seat	Fixed lateral seat for diesel transit
Cab type	Open adjustable protective canopy
Roof adjustment range / Max. coverage height mm (ft)	2160 to 2860 (7.09 to 9.38)
Cab noise level dB(A)	120 / 120
Mesh Handler	Hydraulic cylinder-operated mesh handling arm
Electrical protection	Thermal overload protection, phase sequence, and 300VA transformer
Fire suppression system / Portable extinguisher	Portable extinguisher
Horn (Claxon) and Reverse alarm	Yes
Strobe lights	Warning lights
Exhaust catalyst and muffler	Yes
Chassis leveling element	Integrated spirit level indicators