



RFD1X-3068

FACE DRILL





Precision drilling with effortless control

This Rhino RFD1X-3068 face drill is loaded with enhancements that not only increase productivity and uptime, but lower daily operating costs too. A high-efficiency hydraulic system, advanced digital control interface, and specific drilling modes to allow you to choose your penetration profile headline the long list of advances.



1. Level climate-control system with automotive-style adjustable louvers helps keep the glass clear and the cab comfortable.

2. Advanced LCD monitor provides intuitive access to a wealth of operational and drilling data and functions.

3. Ergonomically correct short-throw pilot levers provide smooth, predictable fingertip control with less movement or effort.

ENGINE AND POWERTRAIN	
Diesel Engine Brand – Model	RHINO RFD56T / Yanmar 4TNV98T
Engine Power kW (HP) @ rpm	56 (75) @ 2200 / 53 (71) @ 2200
Emissions Certification (Tier / Stage)	Tier 3 / Stage IIIA
Transmission (Type / Model)	Hydrostatic / Hydrodynamic 4WD
Chassis Type	Articulated, heavy duty
Steering & Articulation Angle (°)	Hydrostatic power steering system, ±40°
Axles / Brakes	DANA112 front axle, DANA112 rear axle / Emergency and parking brake
Maximum Speed km/h (mph)	12 (7.5)
Maximum Gradeability (%)	≥ 25 (14°)
Tyre Dimensions & Type	9.00 x R20 Mining tires
Fuel Tank Capacity L (gal)	70 (18.5)
Exhaust Purification System	Catalytic converter / muffler
HYDRAULIC SYSTEM	
Hydraulic Pump Type	Pump for impact, positioning and propulsion; Pump for rotary oil discharge start
Maximum System Pressure bar (psi)	230 (3335) / Traction: 420 (6091)
Hydraulic Tank Capacity L (gal)	200 (52.8)
Filtration µm	10 µm
Oil Cooling System	Stainless steel water cooler for hydraulic oil
HYDRAULIC ROCK DRILL (DRIFTER)	
Impact Power kW (HP)	18 (24.1)
Percussion Pressure bar (psi)	230 (3,335)
Percussion Frequency Hz (bpm)	60 (3,600)
Rotation Speed rpm	0-215 rpm
Rotation Torque Nm (lb-ft)	1,070 (789)
Drilling Diameter mm (in)	41-76 (1.61 - 2.99)
Shank Adapter	Heavy-duty T38
Air Consumption for Lubrication L/s (cfm)	7(14.83)
Anti-jamming System	Anti-jamming
Total Operating Weight kg (lb)	13200 (29101)

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POSITIONING BOOM

Number of Booms	1 heavy L-shaped boom
Boom Extension mm (ft)	1500 (4.92)
Lift Angle (°)	-15 / +55
Lateral Swing (°)	± 40
Roll-over Rotation (°)	360 continuous
Automatic Parallelism	Yes, via parallelism cylinders
Anti-collision System	Stop safety valve
Boom Weight kg (lb)	1600 (3527)

FEED (GUIDE SHELL)

Feed Beam Type	TF14R / TF-12R models (Optional: Telescopic feed)
Feed Type	Hydraulic cylinder and roller chain
Feed Beam Extension mm (ft)	1600 (5.2)
Feed Force kN (lbf)	15 (3372)
Maximum Rod Length mm (ft)	4305 (14.1)
Effective Drilling Depth mm (ft)	4000 (13.1)
Reverse Extraction System	Mechanical via hydraulic reversal



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DRILLING COVERAGE

Maximum Coverage Area m ² (ft ²)	31 (333)
Maximum Coverage (W × H) mm (ft)	6900 × 6700 (22.6 × 22)
Minimum Tunnel Section m (ft)	3.0 × 3.0 (9.8 × 9.8)
Max. tunnel section m (ft)	6.8 × 6.7 (22.3 × 22)
Inner Turning Radius mm (ft)	3,053 (10.0)
Outer Turning Radius mm (ft)	5,538 (18.2)

ELECTRICAL SYSTEM (OPERATION)

Main Electric Motor kW (HP)	55 (73.7)
Total Installed Power kW (HP)	63 (84.4)
Voltage / Frequency V (Hz)	7 3/5
Starting Method	Star-Delta
Cable Length (Reel) m (ft)	90 (295.28)
IP Protection Rating	IP55 / IP65 control box
Battery Electric Propulsion	Not available as standard
Battery System	12 V, 120 Ah

WATER & AIR SYSTEM

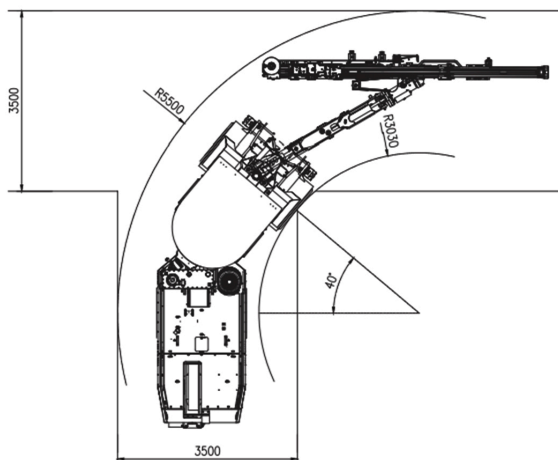
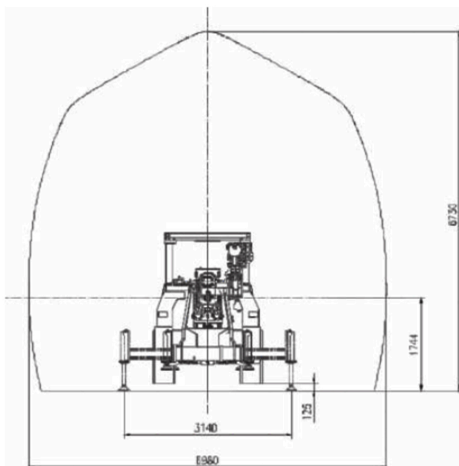
Compressor Type	Rotary screw
Compressor Brand	Atlas Copco / Quincy
Compressor Capacity m ³ /min (cfm)	1.40 (49.44)
Air Working Pressure bar (psi)	8 (116)
Air Pressure for Lubrication bar (psi)	2.5 (36.3)
Water Pump Type	Piston booster pump
Water Pump Brand	Grundfos / Flygt
Water Flow L/min (gpm)	80 (21.1)
Maximum Water Pressure bar (psi)	20 (290)
Pump Motor Power kW (HP)	3 (4)

AUTOMATION, CONTROL & CONNECTIVITY

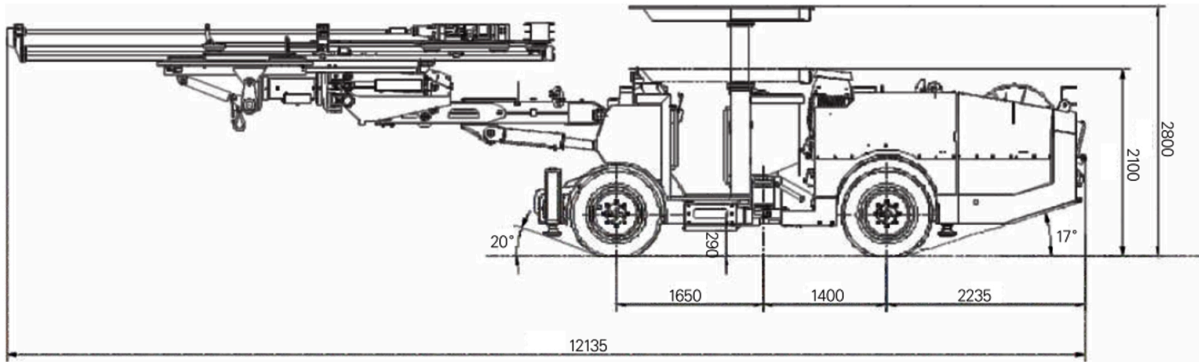
Control System	Direct Hydraulic-assisted
Automation Level	Advanced Manual
Anti-jamming System	Anti-jamming function
Positioning Control	Manual visual / Angle indicator
Remote Operation	Not available
Remote Monitoring	Basic hour meter module
Navigation / Drilling Plan	Not available
MWD (Measure While Drilling)	Not available

CAB, ERGONOMICS & SAFETY

Structure Certification (FOPS / ROPS)	FOPS / ROPS Approved
Cab Type	Safety canopy / Optional: Enclosed cab
In-cab Noise Level dB(A)	<106
A/C & HEPA Filtration System	Not available
Fire Suppression System (Manual / Auto / Brand)	Fire extinguisher / Optional: Ansul automatic system
Centralized Lubrication System (Auto Grease)	Centralized manual greasing
Blind-spot Cameras & LED Lighting (Lumens)	Tramming lights: 8*70W 12V, brake light, horns and backup alarms



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DIMENSIONS & WEIGHT (TRANSPORT POSITION)

Total length mm (ft)	12,167 (39.9)
Transport width mm (ft)	1,765 (5.8) / 2,065 (6.8) max
Transport height mm (ft)	2,141 (7.0) / Canopy up: 2,841 (9.3)
Internal turning radius mm (ft)	3,053 (10.0)
External turning radius mm (ft)	5,538 (18.2)
Ground clearance mm (in)	291 (11.5)
Wheelbase mm (in)	2,877 (113.3)



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