



RFD1X-3570

FACE DRILL





Precision drilling with effortless control

This Rhino RFD1X-3570 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 RFD97T Cummins QSB4.5
Engine Power kW (HP) @ rpm	97 (130.0) @ 2000 / 92 (123.4) @ 2000
Emissions Certification (Tier / Stage)	Tier 3 / Stage IIIA
Transmission (Type / Model)	Hydrostatic transmission (Linde or equivalent)
Chassis Type	Articulated, 4WD
Steering & Articulation Angle (°)	Hydrostatic, ±42°
Axles / Brakes	Wet brake
Maximum Speed km/h (mph)	15 (9.3)
Maximum Gradeability (%)	14°(25%)
Tyre Dimensions & Type	12.00-20
Fuel Tank Capacity L (gal)	70 (18.5)
Exhaust Purification System	Catalytic converter + muffler

HYDRAULIC SYSTEM

Hydraulic Pump Type	Variable displacement (Piston)
Maximum System Pressure bar (psi)	250 (3625)
Hydraulic Tank Capacity L (gal)	350 (92.5)
Filtration µm	10 absolute
Oil Cooling System	Stainless steel water-to-oil heat exchanger

HYDRAULIC ROCK DRILL (DRIFTER)

Impact Power kW (HP)	24.5 (32.9)
Percussion Pressure bar (psi)	275 (3,988)
Percussion Frequency Hz (bpm)	68 (4,080)
Rotation Speed rpm	0 - 320
Rotation Torque Nm (lb-ft)	1,260 (929)
Drilling Diameter mm (in)	76 (2.99)
Shank Adapter	R32 / T38
Air Consumption for Lubrication L/s (cfm)	5(10.6)
Anti-jamming System	Automatic hydraulic
Total Operating Weight kg (lb)	22300 (49163.1)

POSITIONING BOOM	
Number of Booms	1
Boom Extension mm (ft)	1300 (4.27)
Lift Angle (°)	+55 / -30
Lateral Swing (°)	±35
Roll-over Rotation (°)	360
Automatic Parallelism	Electronic (Via software)
Anti-collision System	Included (Via software i)
Boom Weight kg (lb)	2200 (4850)
FEED (GUIDE SHELL)	
Feed Beam Type	Extruded aluminum profile
Feed Type	Hydraulic cylinder and cables
Feed Beam Extension mm (ft)	1400 (4.59)
Feed Force kN (lbf)	20 (4496)
Maximum Rod Length mm (ft)	4,405 (14.5)
Effective Drilling Depth mm (ft)	4,100 (13.5)
Reverse Extraction System	Optional available



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DRILLING COVERAGE

Maximum Coverage Area m ² (ft ²)	48 (516.6)
Maximum Coverage (W × H) mm (ft)	8650 x 6800 (28.38 x 22.31)
Minimum Tunnel Section m (ft)	3 x 3 (9.84 x 9.84)
Max. tunnel section m (ft)	7x 6.5 (21.33 x 21.33)
Inner Turning Radius mm (ft)	3365 (11.04)
Outer Turning Radius mm (ft)	7252 (23.79)

ELECTRICAL SYSTEM (OPERATION)

Main Electric Motor kW (HP)	2 x 55 (2 x 73.8)
Total Installed Power kW (HP)	122 (163.6) [breakdown: 552+7.5+4.5]
Voltage / Frequency V (Hz)	380 (50)
Starting Method	Star-Delta
Cable Length (Reel) m (ft)	100 - 120 (328 - 393)
IP Protection Rating	IP65
Battery Electric Propulsion	Not available
Battery System	For electronics/engine only

WATER & AIR SYSTEM

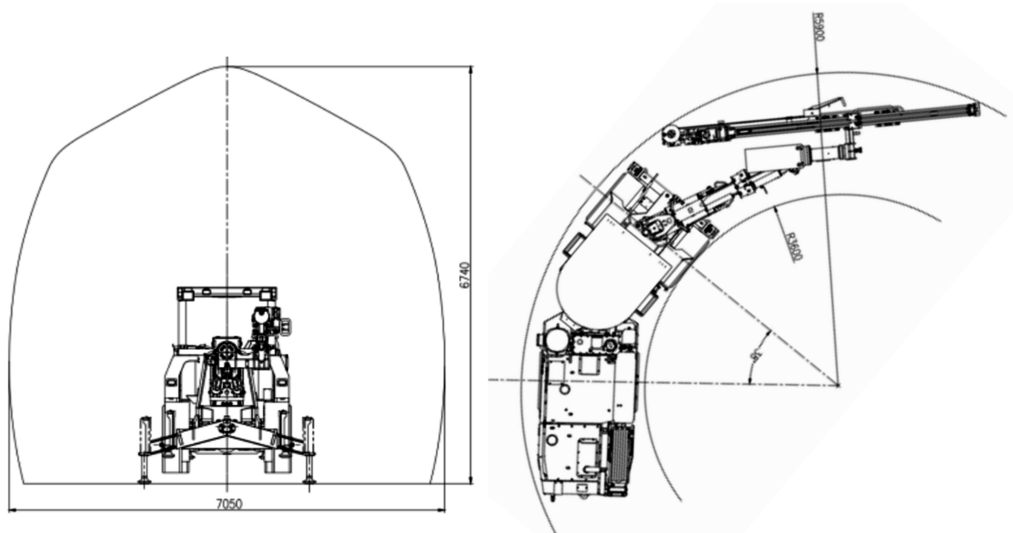
Compressor Type	Rotary screw
Compressor Brand	Gardner Denver / Ingersoll
Compressor Capacity m ³ /min (cfm)	1.40 (49.44)
Air Working Pressure bar (psi)	8 (116)
Air Pressure for Lubrication bar (psi)	2.5 - 3.0 (36.2 - 43.5)
Water Pump Type	Multistage centrifugal booster
Water Pump Brand	Grundfos / Flygt
Water Flow L/min (gpm)	70 (18.5)
Maximum Water Pressure bar (psi)	8.0 - 12.0 (116.0 - 174.0)
Pump Motor Power kW (HP)	7.5 (10.1)

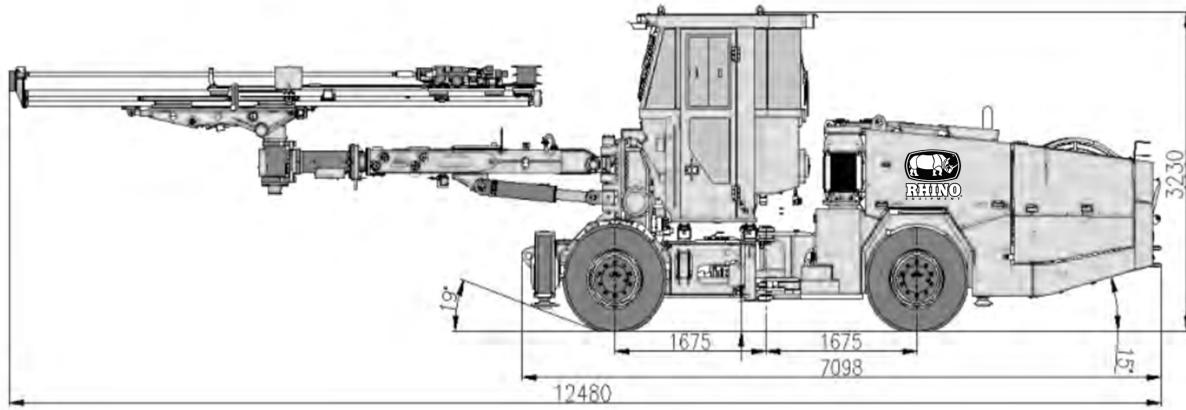
AUTOMATION, CONTROL & CONNECTIVITY

Control System	Intelligent computer-controlled
Automation Level	Fully automatic drilling
Anti-jamming System	Integrated electronic
Positioning Control	Total station and laser guidance for mining
Remote Operation	Supported (Remote control platform)
Remote Monitoring	Real-time observation of images and status
Navigation / Drilling Plan	Drill hole pattern design software
MWD (Measure While Drilling)	Route planning log program

CAB, ERGONOMICS & SAFETY

Structure Certification (FOPS / ROPS)	FOPS / ROPS certified
Cab Type	Enclosed or Open
In-cab Noise Level dB(A)	<80
A/C & HEPA Filtration System	Standard air conditioning
Fire Suppression System (Manual / Auto / Brand)	Manual / Ansul or Oner
Centralized Lubrication System (Auto Grease)	Manual centralized / Opt. Auto.
Blind-spot Cameras & LED Lighting (Lumens)	8 x 55W (Tramming) / 2 x 500W (Working)





DIMENSIONS & WEIGHT (TRANSPORT POSITION)

Total length mm (ft)	12502 (41.02)
Transport width mm (ft)	2265 (7.43)
Transport height mm (ft)	3245 (10.65)
Internal turning radius mm (ft)	3365 (11.04)
External turning radius mm (ft)	7252 (23.79)
Ground clearance mm (in)	330 (12.99)
Wheelbase mm (in)	1690 + 1690 (66.54 + 66.54) / Total: 7138 (281.02)



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