



RFD2X-4070

FACE DRILL





Maximum control for precise and consistent drilling

This Rhino RFD2X-4070 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

Engine Make - Model	RHINO RFD97T / Weichai WP4G120E310
Engine power kW (HP) @ rpm	97 (130) @ 2300 / 89 (119.3) @ 2300
Emissions certification (Tier / Stage)	Tier 3 / Stage IIIA
Transmission (Type / Model)	Hydrostatic transmission
Chassis type	Heavy-duty articulated
Steering and articulation angle (°)	Hydrostatic power steering, ± 42
Axles / Brakes	Fanyi front and rear axles (Optional: DANA) / Spring-applied, hydraulic-release wet service brake
Maximum speed km/h (mph)	16 (10)
Maximum gradeability (%)	≥ 25 (14°)
Tire dimensions and type	14.00 x R20 High flotation
Fuel tank capacity L (gal)	95 (25.1)
Exhaust gas purification system	Exhaust catalytic converter / muffler

HYDRAULIC SYSTEM

Hydraulic pump type	Hydraulic pumps for impact, positioning and propulsion; Hydraulic pump for rotation
Maximum system pressure bar (psi)	230 (3,335)
Hydraulic tank capacity L (gal)	300 (79.2)
Filtration μm	10
Oil cooling system	Stainless steel water cooler for hydraulic oil

POSITIONING BOOM

Number of booms	2 independent heavy L-design booms
Boom extension mm (ft)	Telescopic: 1,500 (4.9)
Lift angle (°)	-10 / +65
Swing angle (°)	± 45
Roll-over angle (°)	Feed rollover: 160
Automatic parallelism	Parallel holding in all directions
Anti-collision system	Active proximity sensor
Boom weight kg (lb)	2,150 (4,740) [Per each boom]

HYDRAULIC 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
Rotation torque Nm (lb-ft)	1,000 (738)
Drilling diameter mm (in)	33 - 76 (1.3" - 3.0")
Shank adapter	T38
Lubrication air consumption L/s (cfm)	5 (10.6)
Anti-jamming system	Anti-jam drill
Drifter safety systems	2 sets of independent grid systems
Total operating weight kg (lb)	23,000 (50,706)

FEED BEAM

Feed beam type	TF1838-12 / TF1838-14 / TF1838-16 models
Feed type	Hydraulic cylinder + high-strength steel cable
Feed extension mm (ft)	Feed compensation: 1,250 (4.1)
Feed force kN (lbf)	15 (3,372)
Maximum rod length mm (ft)	3,700 (12.1)
Hole depth mm (ft)	3,400 (11.1)
Reverse extraction system	Mech-hydraulic via active flow reversal



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

DRILLING COVERAGE

Maximum coverage area m ² (ft ²)	58.5 (629.7)
Maximum coverage (Width × Height) mm (ft)	8,530 × 6,860 (28.0 × 22.5)
Minimum tunnel section m (ft)	4.0 × 4.0 (13.1 × 13.1)
Maximum tunnel section m (ft)	7.0 × 6.7 (22.9 × 21.9)
Inside turning radius mm (ft)	3,380 (11.1)
Outside turning radius mm (ft)	6,000 (19.7)

ELECTRICAL SYSTEM (OPERATION)

Main electric motor kW (HP)	2 x 55 (2 x 73.7)
Total installed power kW (HP)	122 (163.6) [2x55 + 7.5 + 4.5]
Voltage / Frequency V (Hz)	380 / 50
Starting method	Star / Delta
Cable reel length m (ft)	Drum capacity: 90 (295)
IP protection rating	IP65
Battery electric tramming	Optional
Battery system	24V (2 x 12V 80Ah)

WATER AND AIR SYSTEM

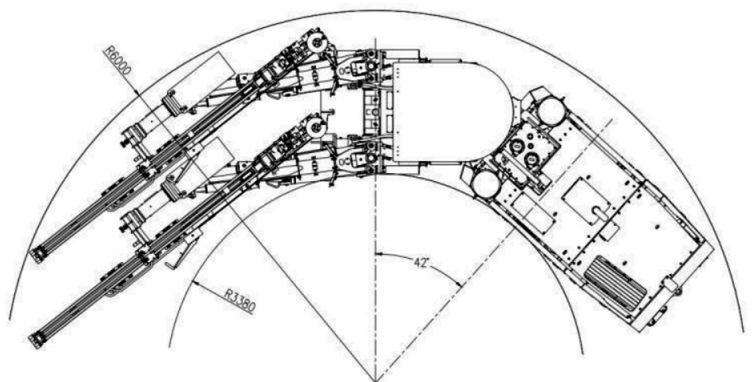
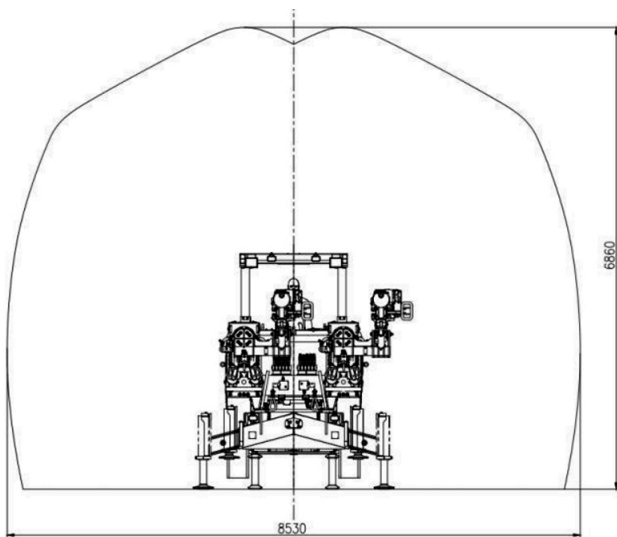
Compressor type	Screw type (Kompressoren)
Compressor capacity m ³ /min (cfm)	0.9 (31.8)
Working air pressure bar (psi)	9 (130)
Lubrication air pressure bar (psi)	3.0 (43.5)
Water pump type	Water pump for the system
Water flow L/min (gpm)	160 (42.3)
Maximum water pressure bar (psi)	6 - 12 (87 - 174)
Pump motor power kW (HP)	4.5 (6.0)

AUTOMATION, CONTROL AND CONNECTIVITY

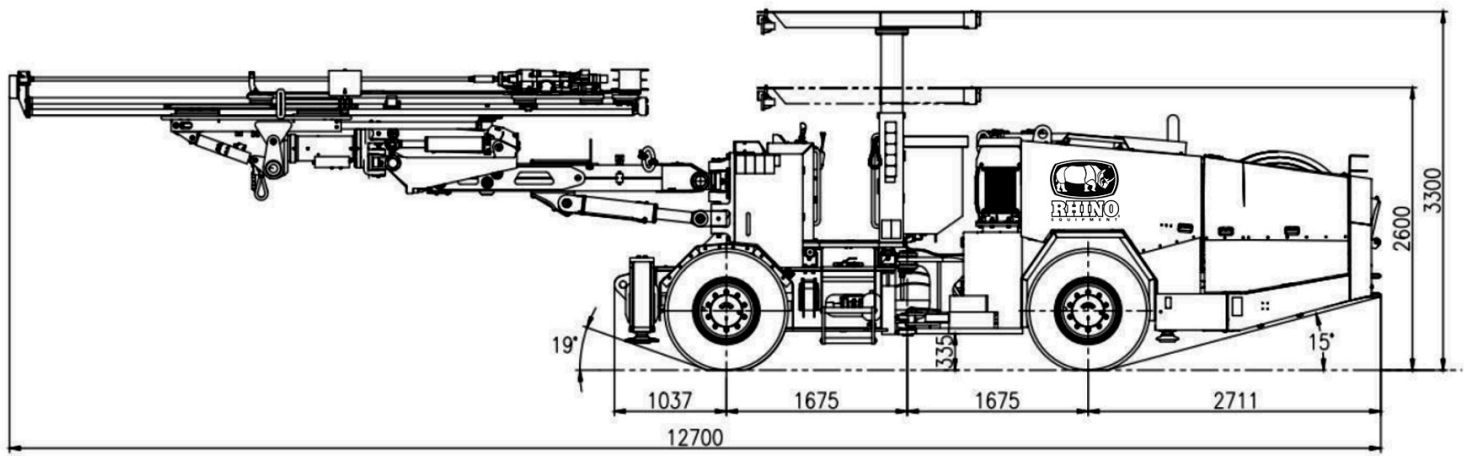
Control system	Direct hydraulic control system
Automation level	Digital operating status display
Anti-jamming system	Mechanical/hydraulic Anti-jam drill function
Positioning control	Integrated angle ruler
Teleremote operation	Optional
Remote monitoring	Digital on-screen monitoring (lubrication failure, oil levels and temperature)
Navigation / Drill plan	Plan upload via USB / Network (Opt)
MWD (Measure While Drilling)	Optional

CABIN, ERGONOMICS AND SAFETY

Structure certification (FOPS / ROPS)	FOPS certified safety canopy
Cabin type (Enclosed climate-controlled / Safety canopy)	Safety canopy / Optional: Enclosed cabin, Fixed seat with safety belt
Internal noise level in cabin dB(A)	< 78 (Optional enclosed cabin)
Air conditioning and HEPA filtration system	Optional (HEPA F9)
Fire suppression system (Manual / Automatic / Brand)	Fire extinguisher / Optional: Centralized lubrication system
Centralized lubrication system (Automatic greasing)	Automatic (Includes greasing machine and grease reel)
Blind-spot assist cameras and LED lighting (Lumens)	Tramming lights: 8x55W, brake light, position light, horn and backup alarms



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



DIMENSIONS AND WEIGHT (TRAMMING POSITION)

Total length mm (ft)	12,700 (41.7)
Transport width mm (ft)	2,000 (6.6)
Transport height mm (ft)	2,500 / Canopy up: 3,300 (8.2 / 10.8)
Inside turning radius mm (ft)	3,380 (11.1)
Outside turning radius mm (ft)	6,000 (19.7)
Ground clearance mm (in)	335 (13.2)
Wheelbase mm (in)	1,675 (65.9) [between main axles]
Approach angle (°)	19
Departure angle (°)	15

