



# RUS800

UNDERGROUND SCALERS





# Impact Power with Precise Control.

The Rhino RUS800 Underground Mining Scaler is equipped with enhancements that not only increase productivity and uptime, but also reduce daily operating costs. A high-efficiency hydraulic system, optimized impact energy, and advanced controls that enable precise and consistent operation lead a long list of innovations.



1. Climate-control system with automotive-style adjustable louvers helps keep windows clear and the cab comfortable.
2. Advanced LCD monitor provides intuitive access to a wide range of operational, monitoring, and diagnostic data and functions.
3. Ergonomically positioned short-reach controls deliver smooth and predictable operation, reducing operator movement and effort during rock scaling and ground control tasks.

## ENGINE AND POWERTRAIN

Engine manufacturer	RHINO RUS65 / Yanmar 4TNV98CT
Engine type	Diesel
Number of cylinders	4 Inline Cylinders
Displacement L (in <sup>3</sup> )	3.3 (202.5) / 3.3 (201.3)
Rated power kW (hp)	70 (93.9) / 54.3 (72.8)
Maximum power kW (hp)	73 (97.9) / 56.0 (75.1)
Maximum torque N·m (lb·ft)	290 (213.9) / 240 (177.0)
Rated engine speed rpm	2,200 - 2,400
Peak torque speed rpm	1,600 - 1,800
Cooling system	Liquid-cooled / Heavy-duty water radiator
Emission standard	EU Stage III
Fuel tank capacity L (US gal)	110 (29.0)
Fuel consumption L/h (gal/h)	12.0 (3.1)
Transmission type	Closed-loop Hydrostatic / Hydraulic
Number of gears	2 Gears (1st Gear: Working / 2nd Gear: Travel)
Drive	4×4 (Permanent All-Wheel Drive)
Axle type	Heavy-Duty Planetary Rigid Axles for Mining
Differentials	Limited Slip Differential
Service brakes	Spring-Applied, Hydraulic-Release (SAHR) Multi-disc Wet Brakes
Minimum speed km/h (mph)	4 (2.5)
Maximum speed km/h (mph)	15 (9.3)
Maximum gradeability ° (%)	14° (25%)

## HYDRAULIC SYSTEM

Hydraulic control type	Electro-hydraulic Proportional Control
Hydraulic pump type	Variable Displacement Axial Piston Pump (Load Sensing)
Maximum pressure bar (psi)	210 (3,045.7)
Hydraulic flow L/min (gpm)	115 (30.3)
Hydraulic tank capacity L (gal)	140 (36.9)
Hydraulic oil type	ISO VG 46 / 68 (Premium Anti-wear)
Hydraulic filtration $\mu\text{m}$	10 $\mu\text{m}$ Absolute Return Line Filter
Pilot pressure bar (psi)	35 (507.6)
Impact energy J (ft·lbf)	362 (267.0)
Impact frequency bpm	600 - 1,100
Hammer type	Hydraulic Scaling Hammer (Dedicated Rock Scaling Hammer)
Tool diameter mm (in)	$\Phi$ 53 ( $\Phi$ 2.08)
Chisel type	Conical Point / Heavy-Duty Moil Point

## SCALING COVERAGE

Maximum scaling height mm (ft)	8,040 (26.38)
Maximum horizontal reach mm (ft)	5,235 (17.18)
Vertical reach mm (ft)	8,035 (26.36)
Inside turning radius mm (ft)	3,275 (10.74)
Outside turning radius mm (ft)	5,285 (17.34)
Frame oscillation $^{\circ}$	$\pm 8^{\circ}$
Steering angle $^{\circ}$	$\pm 35^{\circ}$
Hammer rotation $^{\circ}$	360 $^{\circ}$ (No Blind Spot / Rotary Helical Actuator)
Boom swing $^{\circ}$	$\pm 45^{\circ}$ (Main Boom Horizontal Sweep)
Side coverage mm	5,240 (17.19)
Minimum tunnel section m (ft)	3.1 $\times$ 2.6 (10.17 $\times$ 8.53)
Maximum tunnel section m (ft)	8.1 $\times$ 8.1 (26.57 $\times$ 26.57)

## ELECTRICAL SYSTEM (OPERATION)

Battery V (Ah)	24 V (Two 12 V / 100 Ah Batteries in Series)
Work lights	4× Front LED Work Lights / 2× Rear High-Intensity LED Work Lights
Emergency stop	3 Mushroom-Type Push Buttons (1 in Cab, 2 on Chassis Sides)
Master switch	Lockable Manual Battery Disconnect (Lockout/Tagout)

## AUTOMATION, CONTROL, AND CONNECTIVITY

Control type	Electro-hydraulic Proportional Control via Joysticks
Proportional joystick	Yes, Dual Joysticks Integrated into the Armrests
Telematics	Basic Preparation for Remote Monitoring System (Optional)
Remote control	Wired or Radio Remote Control (Optional)



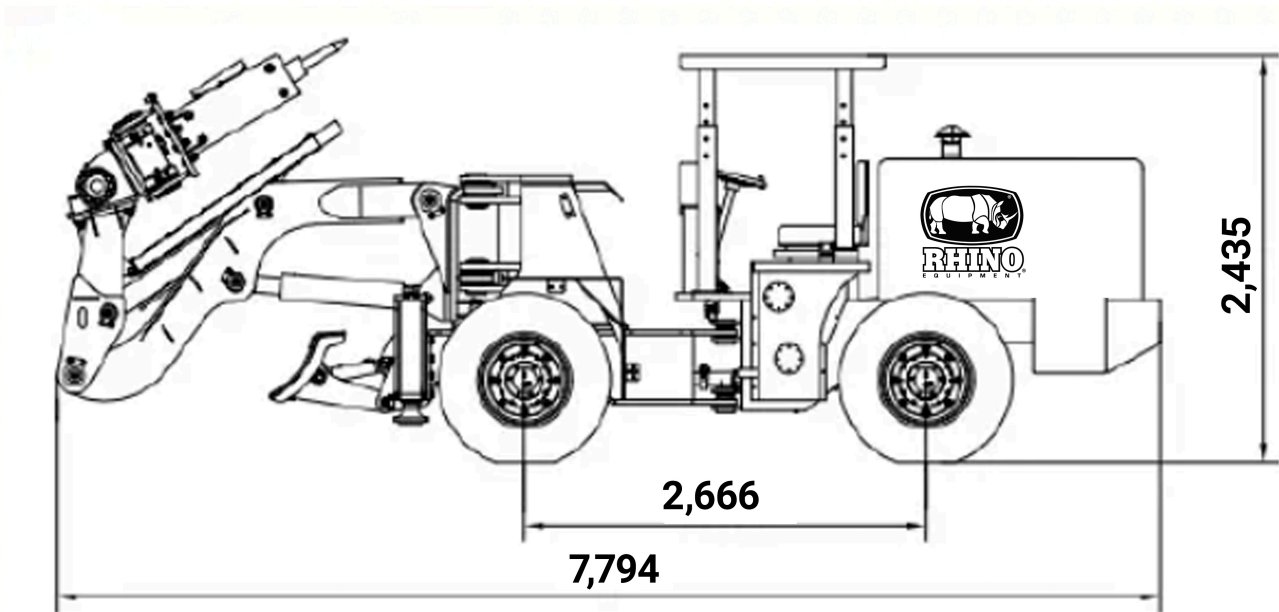
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## CAB, ERGONOMICS, AND SAFETY

ROPS-certified cab	Yes (Roll-Over Protective Structure)
FOPS-certified cab	Yes (Falling Object Protective Structure Level II)
Cab type	Enclosed Climate-Controlled Cab with Safety Glass or Open Canopy (Selectable)
Air conditioning	Standard on Enclosed Cab Version
Optional	Front Steel Protective Guard Against Rock Impacts
Reverse alarm	Intermittent Audible Reverse Alarm
Horn	Yes, High-Power Electric Horn
Fire extinguisher	6 kg ABC Dry Chemical Portable Fire Extinguisher
Noise level dB(A)	≤ 82 dB(A) Inside Enclosed Cab / ≤ 98 dB(A) in Open Canopy

## CHASSIS

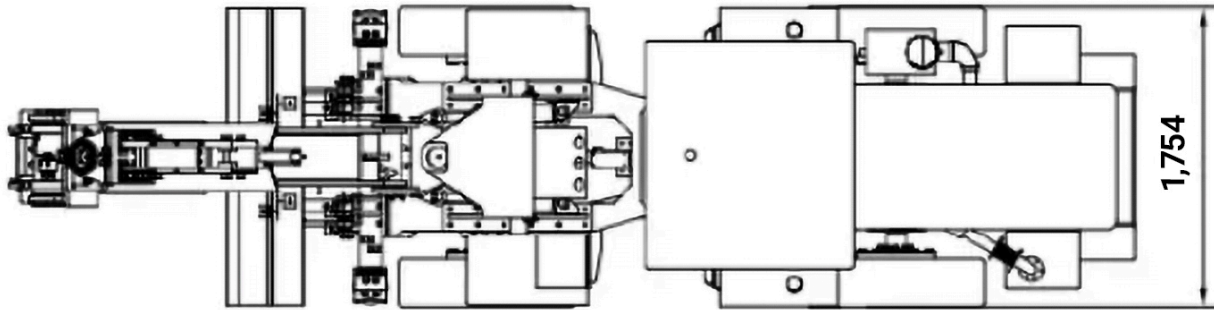
Steering	Hydrostatic Center-Articulated Steering with Double-Acting Cylinders
Frame oscillation °	±8° Center Oscillation to Maintain Traction on Uneven Terrain
Steering angle °	±35°
Tire size	9.00-20 or Solid Mining Tires (Puncture-Proof)



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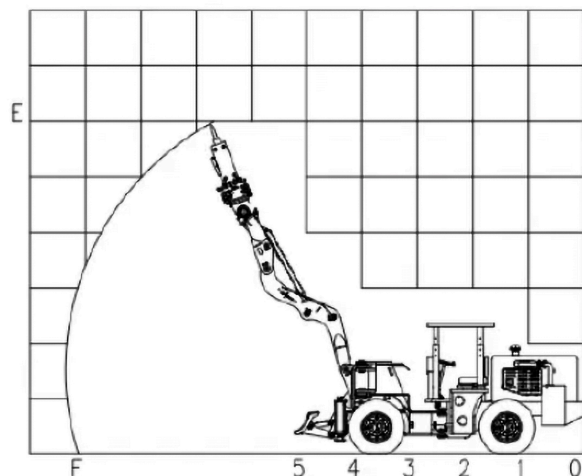
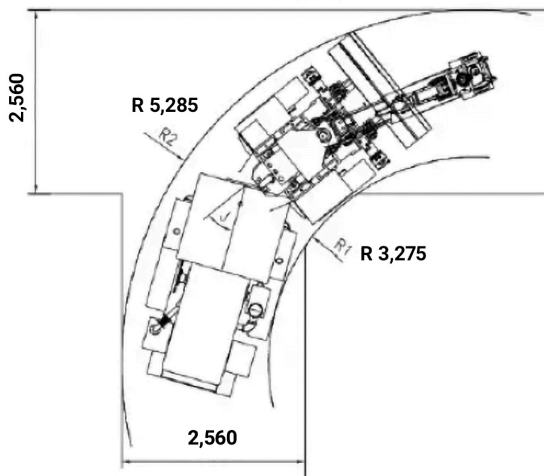
## CAPACITIES

Fuel tank L (US gal)	110 (29.0)
Engine oil L (gal)	10.5 (2.77)
Coolant L (gal)	14.0 (3.70)



## DIMENSIONS AND WEIGHT (TRANSPORT POSITION)

Length mm (ft)	7,794 (25.57)
Width mm (ft)	1,754 (5.75)
Height mm (ft)	2,435 (7.99)
Transport width mm (ft)	2,560 (8.40)
Wheelbase mm (ft)	2,666 (8.75)
Ground clearance mm (in)	314 (12.36)
Operating weight kg (lb)	10,500 (23,148.5)



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