



RMU-T45

UNDERGROUND MINING TRUCK





Designed for high-capacity hauling, built with precision

The Rhino RMU-T45 Underground Mining Truck is engineered with advanced features that maximize productivity, increase uptime, and reduce operating costs in demanding underground mining operations. A high-performance powertrain, heavy-duty optimized transmission, and operator-focused controls enable faster haul cycles and exceptional material transport efficiency.



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 data, diagnostics, and machine functions.
3. Ergonomically positioned controls deliver smooth and predictable handling, reducing operator effort while ensuring precise response during hauling operations.

ENGINE AND POWERTRAIN

Engine Model	RHINO RTM630A / VOLVO TAD1651VE
Engine Manufacturer	RHINO EQ / Volvo
Cylinder Configuration	6
Displacement L (cc)	16.13 (16,130)
Gross Power kW (HP)	469 (630) @ 1,800 / 450 (603) @ 1,800
Maximum Torque N·m @ rpm	2,897 @ 1,260
Cooling and Intake System	Turbocharged with Aftercooler (Intercooler)
Air Filtration	Two-Stage Dry Air Filter with Prefilter
Engine Control System	Electronic Fuel Injection
Emissions Standard	(Stage III)
Exhaust Aftertreatment System	DOC + POC + Integrated Muffler
Transmission Type	RH-2 DANA 8821H (Automatic Hydrodynamic Transmission)
Torque Converter	RH- III -DANA CL9672
Hybrid / Electric System	No — 100% diesel



CAPACITIES AND PERFORMANCE

Rated Capacity kg (lb)	45,000 (99,208)
Standard Hopper Capacity m ³ (yd ³)	21,5 (28,12)
Hopper Type	Dump Hopper (Dump)
Dump Angle (°)	65°
Approach / Attack Angle (°)	14°
Empty Operating Weight kg (lb)	40.100 (88.382)
Maximum Gross Machine Weight kg (lb)	83,000 [38,000 empty + 45,000 payload] (182,984 [83,776 empty + 99,208 payload])
Ride Control / Retarder	Transmission with Electromagnetic Retarder Option

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BRAKES AND SAFETY

Main Brake System SAHR (Spring Applied / Hydraulic Released)

Braking Characteristics Fully Enclosed Wet Multi-Disc Brakes; Integrates Service, Parking and Emergency Braking

Brake Safety Standards Certified Under EN ISO 3450, AS 2958.1 and SABS 1589 Standards

Automatic Safety Activation Automatic Braking Activated Immediately if the Cab is Not Secured

Emergency Release System Integrated Manual Emergency Brake Release Pump

TRAVEL SPEEDS (TRAMMING)

Flat Ground Travel Speed - 1st Gear km/h (mph) 4.4 (2.73)

Flat Ground Travel Speed - 2nd Gear km/h (mph) 9.1(9.65)

Flat Ground Travel Speed - 3rd Gear km/h (mph) 16.4 (10.19)

Flat Ground Travel Speed - 4th Gear km/h (mph) 28.5 (17.71)

FLUIDS AND CAPACITIES

Fuel Tank L (gal) 635 (167.75)

Exhaust Oil and Fluids Reduced Emissions Thanks to the DOC+POC Purification System

AXLES, STEERING AND WHEELS

Front and Rear Axles Heavy-Duty Rigid Planetary Axles by Kessler (Germany)

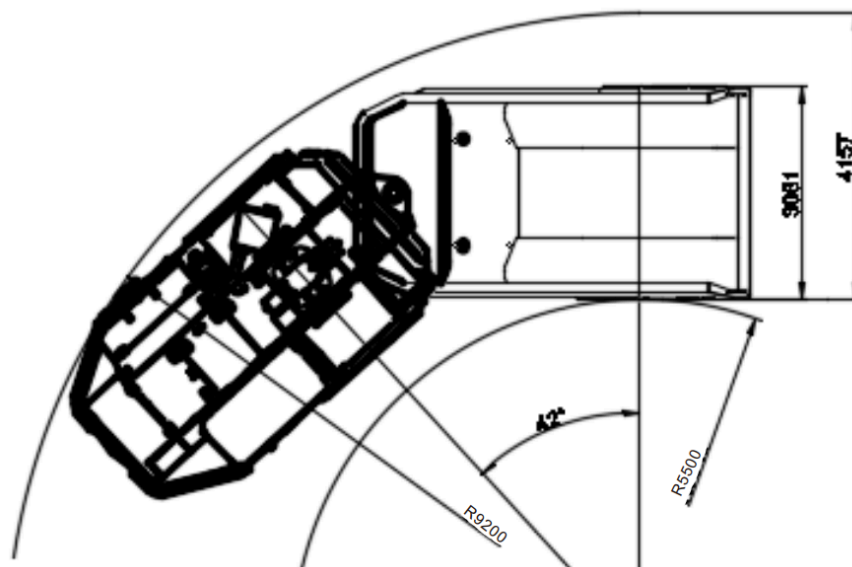
Chassis Type and Oscillation Articulated Center Chassis with Oscillating Front Axle

Steering Type Fully Hydraulic Center Steering with Dual Double-Acting Cylinders

Steering Hydraulic Pump Gear Pump

Outside Turning Radius mm (ft) R8,200 (R26.90)

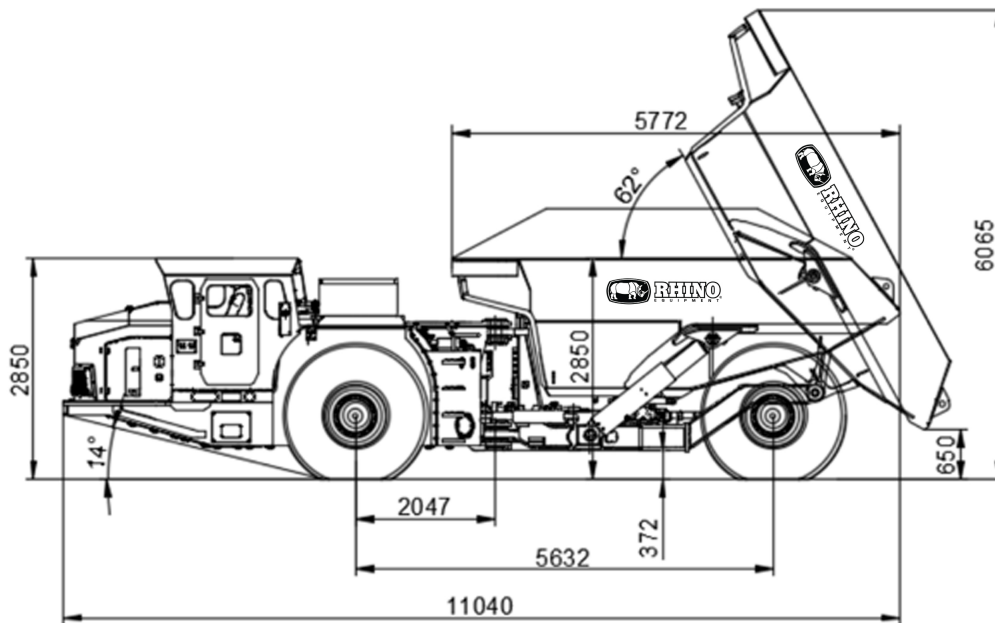
Inside Turning Radius mm (ft) R5,500 (R18.04)



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CAB AND ERGONOMICS

Cab Structure Certification	FOPS Certified Under International Standard ISO 3449
Cab Type and Climate Control	Fully Enclosed Cab with Air Conditioning, Heating and Front/Rear Defroster
Safety Glass	High-Strength Laminated Glass Windows
Emergency Escape Routes	Equipped with a Regulatory Emergency Exit
Operator Display Interface	7.4-Inch Control Display for Operational Information and Alert Monitoring



DIMENSIONS AND MINING OPERATIONS

Overall Length (Dump Hopper Lowered) mm (ft)	10,800 (35.43)
Overall Chassis Length (Floor Plan) mm (ft)	11,040 (36.22)
Overall Width (with Dump Hopper) mm (ft)	3,100 (10.17)
Overall Height (to Cab Roof) mm (ft)	2,850 (9.35)
Wheelbase mm (ft)	5,632 (18.48)
Maximum Height with Dump Hopper Fully Raised mm (ft)	5,772 (18.94)
Distance from Rear Axle to Dump Hopper Edge mm (ft)	2,047 (6.72)
Ground Clearance mm (ft)	351 (1.15) to 373 (1.22) depending on the measurement point
Recommended Minimum Tunnel Section (Width × Height) m (ft)	5.5 (18.04) × 5.5 (18.04) and above



ELECTRICAL SYSTEM AND SENSORS

Electrical System Voltage	24V Operating System
Alternator / Generator	28V, 80A
Starting Batteries	2 × 12V, 150Ah
Starter Motor	24V / 5.5 kW
LED Lighting System	4 Front Lights, 1 Cab Light and 2 Rear Lights
Pressure Monitoring Sensors	Dedicated Sensors for the Working, Steering and Braking Systems
Level Monitoring Sensors	Level Sensors for Diesel Fuel and Hydraulic Oil
Integrated Alerts	Low Oil Level Alarm, Pressure Alarm and Rotating Strobe Light
Electronic Diagnostics	Central Controller with Internal Diagnostics and Integrated Alarm System
Standard Driving Assistance Features	Dual Horn Configuration, Reverse Buzzer and Rear-View Camera System

MAINTAINABILITY AND OPTIONAL EQUIPMENT

Access to Service Points	Daily Maintenance and Inspections Fully Accessible from Ground Level
Automatic Lubrication System	Available as Optional Equipment
Fire Suppression System	Automatic Fire Suppression System (Optional)
Auxiliary Braking Retarder	Electromagnetic Brake Retarder Coupled to the Drive Shaft (Optional)
Thermal Starting Assistance Systems	Engine Preheating System for Cold Environments (Optional)
Fast Fuel Refilling System	Fast Diesel Refueling System (Optional)
Payload Monitoring System	Automatic Dump Body Weighing System (Optional)

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