RT50

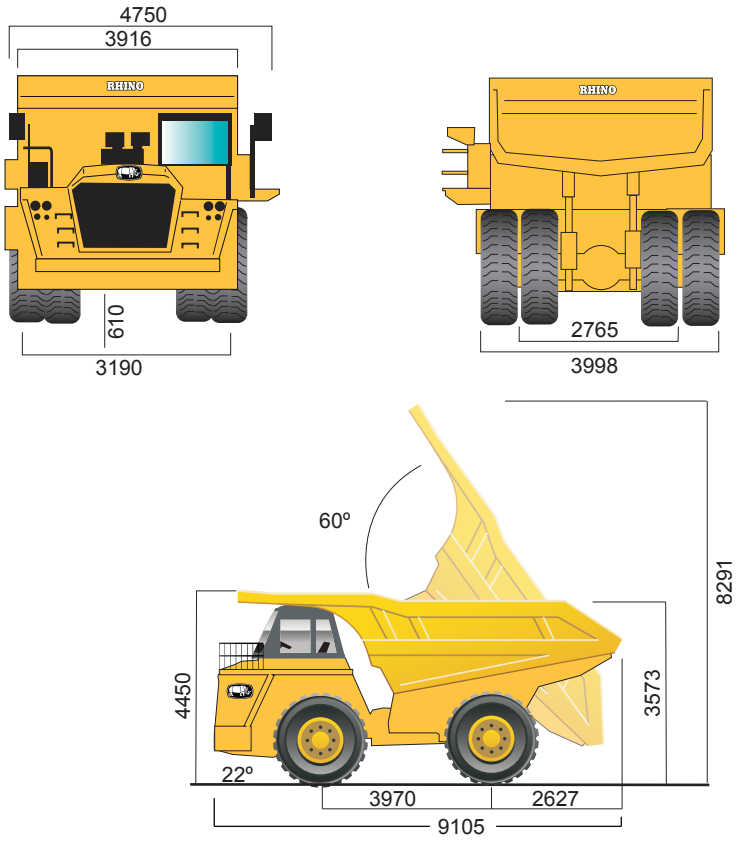
OFF HIGHWAY TRUCK

RHINO

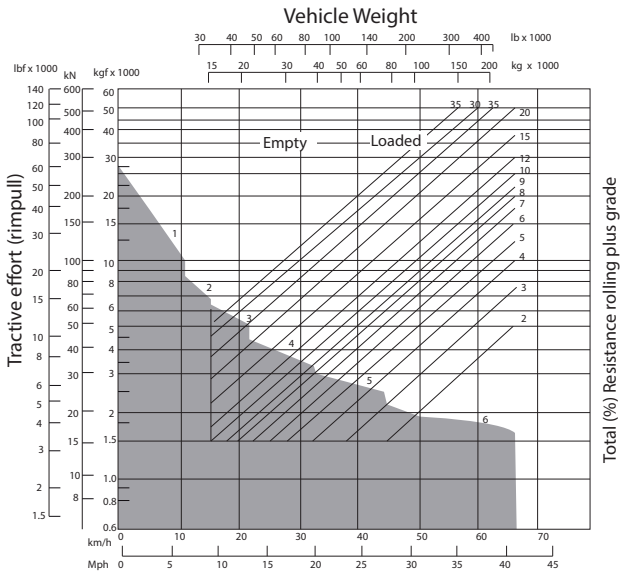
ENGINE	
Emission Rating (optional)	Tier 2 (Tier 3, Tier 4)
Engine Make/ Engine Model	Cummins / QSX15-C525 or Rhino
Bore x Stroke mm	137x169
Displacement L (cu. In)	15(915)
Gross Power kW (Hp) @ 2,100 rpm	392(526)
Max Torque Nm (ft-lb) @ 1,400 rpm	2,440(1,800)
Net Torque Rise	37%
Aspiration	Turbocharged
Type	6 cylinders, 4 stroke, in line
DRIVE AXLE	
Central reduction	Heavy duty single stage spiral bevel gear
Diferential Ratio	3.385:1
Planetary Gear reduction in Wheel Hub Ratio	5.684:1
Half Shaft	Full floating
Total Ratio of Rear Axle	19.24:1
TRANSMISSION	
Allison H5610AR: electronically controlled automatic transmission with CEC 2 Shift Manager Program, with integral TC890 torque converter, integrated hydraulic retarder and planetary gearing.	
Automatic lock up in all ranges	
Speed Forward Ratio: 1st, 2nd, 3rd, 4th, 5th, 6th, reverse	4.00, 2.68, 2.01, 1.35, 1.00, 0.67, 5.15
MAINTENANCE WORK VOLUME	
Cooling System lt	150
Engine Crankcase lt	45
Hydraulic System lt	450
Transmission and Torque Converter lt	68
Axle lt	210
Fuel Tank lt	480
STEERING	
Type	Full Hydraulic power steering system
Actuation	Two double acting hydraulic cylinders and shock absorbers to cushion shocks loads on the system
Emergency Steering	Accumulator provides power
Min. turning radius m(ft)	10.5(34.4)
SUSPENSION	
Front Suspension: independent self-contained nitrogen/oil suspension units. Front suspension cylinders bolted and keyed directly to main frame members. Pistons act as front wheel king pins maintaning correct degree of camber.	
Rear Suspension: variable rate nitrogen /oil cylinders with A-frame and lateral stabilizer bar.	
Front suspension: stroke mm(in)/pressure Mpa(psi)	275(11)/2.13(309)
Rear suspension: stroke mm(in)/pressure Mpa(psi)	178(7)/1.09(158)

BRAKES	
Service	All hydraulic brake system
Front	Dry disc
Rear	Oil cooled, multiple disc, completely sealed from dirt and water
Parking	Rear brakes, sprigs loaded opposing piston on disc pack, hydraulic released
Retarder	Transmission integrated
TYRES	
Standard	21.00 - 35 (36PR)-4
Rim Size	15.00 - 35 in
BODY	
V-type structure, body wear surface are high hardness abrasion resistant steel of yield strength.	
Thickness: Floor, Side, Front mm	16,10,12
Capacity Struck m3	22
Capacity Headped (2:1) m3	28
ELECTRICAL SYSTEM	
Single Cable, negative ground voltage rating 24V.	
FRAME	
Fabricated from high tensile steel and cast iron members at critical points	
HOIST	
Twin three stage double acting cylinders mounted on the outer chassis frame	
Max. Pressure Mps(psi)	25(3,626)
Max. Raising Angle	60°
Raising Time	13s
Lowering Time	9s
CAB	
All steel construction, mounted at the left hand side with adjustable seat, thermal and noise insulated. Instrument panel with gauges, warning and indicator for ease of operation, automotive safety glass all round for maximum opertor protection.	
OPERATING WEIGHTS	
Nominal Vehicle Weight kg (lbs)	35,890(79,124)
Gross Vehicle Weight kg (lbs)	82,000(180,779)
Payload kg (lbs)	45,000(99,208)
Chassis, with hoists kg (lb)	27,080(59,701)
Body standard kg (lb)	8,810(19,422)
Weight Distribution:	
Empty Front Axle	49%
Loaded Front Axle	33%
Empty Rear Axle	51%
Loaded Rear Axle	67%

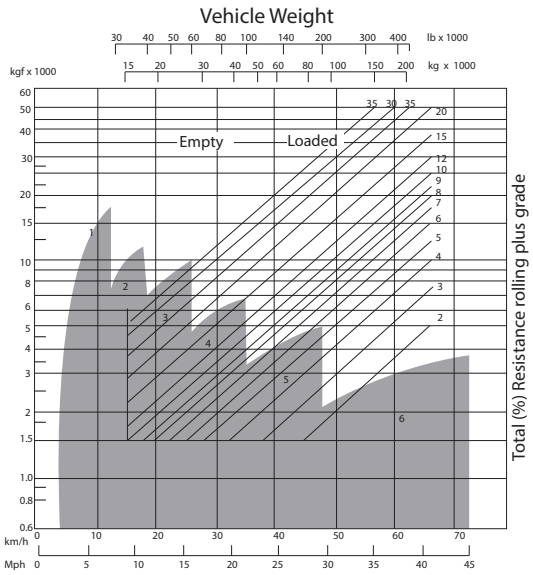
DIMENSIONS



Gradeability



Retardation



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