



Wheel Loader	Rhino RWL235	Komatsu WA470-7	Caterpillar 966M	John Deere 744K	Volvo L150H	Case 921G	Kawasaki 90ZV-2
General							
Brand	Rhino	Komatsu	Caterpillar	John Deere	Volvo	Case	Kawasaki
Model	RWL235	WA470-6	966M	744K	L150H	921G	90ZV-2
Bucket Type	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose
Bucket Capacity m3 (cu. Yd)	4.2 (5.5)	4.2 (5.5)	3.2 (4.2)	4.0 (5.2)	4.0 (5.2)	3.6 (4.7)	4.0 (5.2)
Net Horsepower kW (hp)	216 (290)	203 (272)	206 (276)	226 (303)	220 (295)	225 (302)	202 (271)
Operating Weight kg (lb)	23,500 (51,809)	23,990 (52,889)	23,220 (51,191)	25,314 (55,808)	25,090 (55,314)	20,443 (45,069)	23,250 (51,257)
Engine							
Engine Model (optional)	Cummins M11 (Rhino)	SAA6D125E-6	C9.3 Acert	6090H	D13J	F4HFE613R	QSM11
Gross Horsepower -SAE J1995 kW (hp)	216 (290)	203 (272)	206 (276)	226 N/P	220 (295)	225 (302)	202 (271)
Rated RPM (rpm)	2,200	2,000	1,800	1,500	1,300	2,000	2,100
Engine Type	Direct Injection Water Cooled	Water-Cooled, 4-Cycle	Water-Cooled	Water-Cooled	Water-Cooled	4-Stroke	Water-Cooled
Aspiration	Turbocharged	Trubocharged, Aftercooled, Cooled EGR	Wastegate Turbocharger, Air-to-Air After Cooling	Turbocharged, Charge Air Cooled	Turbocharged	Turbocharged	Turbocharged
Number of Cylinders	6	6	6	6	6	6	6
Bore x Stroke mm (in)	125 x 147 (4.9 x 5.8)	125 x 150 (4.9 x 5.9)	N/P N/P	N/P N/P	N/P N/P	104 x 132 (4.1 x 5.2)	125 x 147 (4.9 x 5.8)
Piston Displacement L (cu. In)	11 (659)	11 (674)	11 (677)	9.0 (549)	13 (793)	6.7 (409)	11 (659)
Fan Drive for Radiator Cooling	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydrostatic, Electronically Controlled	N/P	Hydraulic driven
Reversible Fan Control	OPT	Auto-Reverse	N/P	N/P	N/P	N/P	N/P
Drivetrain							
Torque Converter Type	4 Element, Single Stage	3-element, Single-Stage, Single-Phase	N/P	Single Stage, Dual Phase with Freewheeling Stator	Single Stage	N/P	3 Elements, Single Stage
Transmission Type	Powershift, Spur Gear Constantly in Mesh	Full-Powershift, Countershaft Type	Planetary Powershift	Countershaft-type PowerShift	Countershaft-Type, with Pulse Width Modulation Valve	Module Torque Sensing Autoshift/Manualshift & Modulation	N/P
Number of Speeds (Fwd/Rev)	2/1	4/4	4/4	5/3	4/4	4/3	4/4
Max. Speed (Fwd) kph (mph)	26 (16)	36 (22)	40 (25)	40 (25)	38 (24)	36 (22)	34 (21)
Max. Speed (Rev) kph (mph)	12 (7)	37 (23)	40 (25)	32 (20)	38 (24)	24 (15)	35 (22)
Traction Control	Limited Slip	N/P	N/P	N/P	N/P	N/P	N/P
Reduction Gear	Single Stage	Spiral Bevel Gear	N/P	Planetary	N/P	Helical	Spiral Bevel/Gear, 1 Stage Reduction
Front Axle	Fixed	Fixed, Semi-Floating	Fixed	Fixed	Floating	Fixed	Full Floating Banjo Type
Rear Axle	Floating	Center-Pin Support, Semi-Floating	Oscillating	Oscillating	Floating	Oscillating	Full Floating Banjo Type
Rear Axle Oscillation (deg)	24	26	26	26	30	24	22
Service Brakes	Hydraulic Actuated Pneumatically Assisted	Wet Disc on 4 Wheels, Hydraulically Actuated	N/P	Hydraulic Actuated, Inboard Sun-Shaft Mounted, Oil Cooled, Self Adjusting, Single Disc	Outboard-Mounted Hydraulic, Oil Cooled Wet Disc	Hydraulically Actuated	4-Wheel, Adjustment Free, Wet Disc, Hydraulically Controlled
Parking Brake	Inner Expand Band on Output Shaft	Wet Disc	N/P	Automatic Spring Applied, Hydraulic Released, Oil Cooled, Multi Disc	Fully Sealed, Wet Multi Disc, Spring Forced with Electrohydraulic Release	Spring-Applied Hydraulic Release Disc on Transmission Output Shaft	Spring Applied Oil Release Type
Steering							
Steering Type	Middle Articulated Frame	Articulated, Full Hydraulic Power Steering	Hydraulic	Power, Fully Hydraulic	Load Sensing Hyrdostatic Articulated	N/P	Articulated Frame Steering
Steering Angle (deg)	35	40	37	40	37	40	N/P
Minimum Turning Radius (Center of Outside Tire) mm (ft)	6,487 (21.3)	6,630 (21.8)	N/P N/P	6,280 (20.6)	6,780 (22.2)	6,030 (19.8)	5,800 (19.0)
Bucket							
Bucket Type	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose
Bucket Capacity - Heaped m3 (cu. Yd)	4.2 (5.5)	4.2 (5.5)	2.5 (3.3)	4.0 (5.2)	4.4 (5.8)	3.6 (4.7)	4.0 (5.2)
Bucket Capacity - Struck m3 (cu. Yd)	3.5 (4.6)	3.5 (4.6)	N/P N/P	3.4 (4.4)	N/P N/P	3.1 (4.1)	3.4 (4.4)
Bucket Width mm (ft)	3,266 (10.7)	3,170 (10.4)	3,220 (10.6)	3,270 (10.7)	3,230 (10.6)	3,030 (9.9)	N/P N/P
Bucket Edge Type	Bolt-on Cutting Edge	Bolt-on Cutting Edges	Bolt-on Cutting Edges	Bolt-on Cutting Edges	Bolt-on Cutting Edges	Bolt-on Cutting Edges	Bolt-on Cutting Edges
Bucket Weight kg (lb)	2,065 (4,553)	2,020 (4,453)	N/P N/P	2,517 (5,549)	N/P N/P	1,783 (3,931)	N/P N/P
Dimensions							
Loader Linkage Type	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Torque Parallel Linkage	Z-Bar	Z-Bar
Dump Clearance Max. Height, 45 Deg. Dump Angle mm (ft)	3,220 (10.6)	3,185 (10.4)	3,086 (10.1)	3,040 (10.0)	2,830 (9.3)	2,906 (9.5)	3,130 (10.3)
Reach at Max. Height, 45 Deg. Dump Angle mm (ft)	1,275 (4.2)	1,235 (4.1)	1,294 (4.2)	1,230 (4.0)	1,400 (4.6)	1,194 (3.9)	1,180 (3.9)
Reach at 7', 45 Deg. Dump Angle mm (ft)	1,960 (6.4)	1,980 (6.5)	N/P N/P	1,850 (6.1)	1,890 (6.2)	1,752 (5.7)	N/P N/P
Reach With Arms Horizontal and Bucket Level mm (ft)	2,745 (9.0)	2,750 (9.0)	2,737 (9.0)	N/P N/P	2,134 (7.0)	N/P N/P	N/P N/P
Hinge Pin Height at Full Raise mm (ft)	4,460 (14.6)	4,360 (14.3)	4,224 (13.9)	4,280 (14.0)	4,320 (14.2)	4,118 (13.5)	4,360 (14.3)
Tire Size	26.5-25-20PR	26.5 - R25 (L3)	26.5 - R25 L-4	26.5 - R25 L-3	26.5 - R25 L-3	26.5 - R25	26.5 - R25 L-3
Tread mm (ft)	2,350 (7.7)	2,300 (7.5)	N/P N/P	2,298 (7.5)	2,280 (7.5)	2,230 (7.3)	2,230 (7.3)
Width Over Tires mm (ft)	3,099 (10.2)	3,010 (9.9)	3,002 (9.8)	3,060 (10.0)	2,960 (9.7)	2,890 (9.5)	2,930 (9.6)
Wheelbase mm (ft)	3,400 (11.2)	3,450 (11.3)	3,450 (11.3)	3,460 (11.4)	3,550 (11.6)	3,340 (11.0)	3,400 (11.2)
Loader Clearance Circle - Bucket at Carry, Outside Corner of Bucket mm (ft)	16,100 (52.8)	15,290 (50.2)	14,720 (48.3)	14,010 (46.0)	14,790 (48.5)	13,345 (43.8)	3,100 (10.2)
Ground Clearance mm (in)	496 (19.5)	525 (20.7)	496 (19.5)	462 (18.2)	470 (18.5)	416 (16.4)	515 (20.3)
Hitch Height mm (in)	1,240 (48.8)	1,240 (48.8)	N/P N/P	N/P N/P	N/P N/P	N/P N/P	N/P N/P
Overall Height - Top of Stack mm (ft)	3,500 (11.5)	3,080 (10.1)	3,552 (11.7)	N/P N/P	N/P N/P	N/P N/P	N/P N/P
Overall Height - Top of ROPS Cab mm (ft)	3,730 (12.2)	3,500 (11.5)	3,600 (11.8)	3,500 (11.5)	3,570 (11.7)	3,450 (11.3)	3,535 (11.6)
Performance							
Hydraulic Cycle Time - Boom Raise (sec)	6.1	6.0	5.9	6.8	5.9	6.2	6.1
Hydraulic Cycle Time - Bucket Dump (sec)	1.9	1.6	1.6	1.6	2.0	1.4	1.3
Hydraulic Cycle Time - Boom Lower (sec)	3.8	3.7	2.4	2.8	3.7	3.8	3.0
Straight Static Tipping Load kg (lb)	17,280 (38,096)	18,080 (39,860)	14,668 (32,337)	19,678 (43,383)	17,230 (37,986)	16,579 (36,550)	18,295 (40,334)
Full Turn Static Tipping Load kg (lb)	15,551 (34,284)	15,730 (34,679)	15,822 (34,882)	16,946 (37,360)	15,110 (33,312)	14,245 (31,405)	15,670 (34,546)
Breakout Force kg (lb)	22,000 (48,502)	19,600 (43,211)	17,641 (38,892)	19,416 (42,805)	19,270 (42,483)	17,034 (37,554)	21,206 (46,751)

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