



Wheel Loader	Rhino RWL163				Komatsu WA320-8		Caterpillar 938M		John Deere 624L	
General										
Brand	Rhino				Komatsu		Caterpillar		John Deere	
Model	RWL163				WA320-8		938M		624L	
Bucket Type	General Purpose				General Purpose		General Purpose		General Purpose	
Bucket Capacity m3 (cu. Yd) (optional 3.5)	3.0	(3.9)	3.5	(4.6)	3	(3.9)	3.2	(4.2)	2.7	(3.5)
Net Horsepower kW (hp)	160		(215)		123	(165)	129	(173)	152	(204)
Operating Weight kg (lb)	16,200		(35,715)		15,870	(34,987)	16,400	(36,156)	15,747	(34,716)
Engine										
Engine Model (optional)	Cummins 6CTA8.3 (Rhino)				SAA6D107E		C7.1 Acert		6068	
Gross Horsepower -SAE J1995 kW (hp)	160		(215)		123	(165)	129	(173)	152	(204)
Rated RPM (rpm)	2,200				2,100		1,600		1,600	
Engine Type	Direct injection Water cooled				Water-Cooled, 4-cycle		Water-Cooled		Water-Cooled	
Aspiration	Turbocharged				Turbocharged, Aftercooled		Turbocharged, Aftercooled		Turbocharged, Charge Air Cooled	
Number of Cylinders	6				6		N/P		6	
Bore x Stroke mm (in)	114 x 135	(4.5 x 5.3)		105 x 124	(4.2 x 4.9)	105 x 135	(4.1 x 5.3)	N/P	N/P	
Piston Displacement L (cu. In)	8.3		(506)		6.7	(408)	7	(427)	6.8	(415)
Fan Drive for Radiator Cooling	Belt				Hydraulic		N/P		Hydraulic	
Reversible Fan Control	None				Automatic Reversing		N/P		Option	
Drivetrain										
Torque Converter Type	3 Element, Single Stage				3-Element, Single-Stage, Single-Phase		N/P		Single Stage, Single Phase	
Transmission Type	Powershift-Spur Gear Constant Mesh				Automatic, Full-Powershift, Countershaft Type		Creeper		Countershaft-Type	
Number of Speeds (Fwd/Rev)	2/1				4		1		5/5	
Max. Speed (Fwd) kph (mph)	35	(21)			38	(24)	40	(25)	40	(25)
Max. Speed (Rev) kph (mph)	38	(24)			38	(24)	40	(25)	40	(25)
Traction Control	Limited Slip				N/P		Limited Slip		N/P	
Reduction Gear	Spiral Bevel Gear, Single Stage				Spiral Bevel Gear		N/P		N/P	
Front Axle	Fixed				Fixed, Semi-Floating		Fixed		N/P	
Rear Axle	Floating				Center-Pin Support, Semi-Floating		Oscillating		Oscillating	
Rear Axle Oscillation (deg)	20				24		26		24	
Service Brakes	Hydraulic Actuated Pneumatically Assisted				Hydraulic Actuated, Wet Disc Brakes Actuate on Four Wheels		Outboard Wet Disc		Hydraulic Actuated, Inboard Sun-Shaft Mounted, Oil Cooled, Self Adjusting	
Parking Brake	Inner Expand Band on Output Shaft				Wet Disc Brake		Spring Applied Hydraulically Released		Automatic Spring Applied, Hydraulic Released, Driveline Mounted, Oil Cooled	
Steering										
Steering Type	Middle Articulated Frame				Articulated Type, Full-Hydraulic Power Steering		Load Sensing		Power Fully Hydraulic	
Steering Angle (deg)	35				39		N/P		40	
Minimum Turning Radius (Center of Outside Tire) mm (ft)	6,450	(21.2)		5,380	(17.7)	N/P	N/P	5,270	(17.3)	
Bucket										
Bucket Type	General Purpose				General Purpose		General Purpose		General Purpose	
Bucket Capacity - Heaped m3 (cu. Yd)	3.0		(3.9)		3.0	(3.9)	3.2	(4.2)	2.7	(3.5)
Bucket Capacity - Struck m3 (cu. Yd)	2.5		(3.3)		2.4	(3.1)	N/P	N/P	2.2	(2.9)
Bucket Width mm (ft)	2,946		(9.7)		2,740	(9.0)	N/P	N/P	2,690	(8.8)
Bucket Edge Type	Bolt-on Cutting Edge				Bolt-on Cutting Edge		Bolt-on Cutting Edge		Bolt-on Cutting Edge	
Bucket Weight kg (lb)	1,610		(3,549)		1,330	(2,932)	N/P	N/P	1,148	(2,531)
Dimensions										
Loader Linkage Type	Z-Bar				Z-Bar		Z-Bar		Z-Bar	
Dump Clearance Max. Height, 45 Deg. Dump Angle mm (ft)	3,050		(10.0)		2,880	(9.4)	2,834	(9.3)	2,860	(9.4)
Reach at Max. Height, 45 Deg. Dump Angle mm (ft)	1,170		(3.8)		1,000	(3.3)	1,146	(3.8)	1,020	(3.3)
Reach at 7', 45 Deg. Dump Angle mm (ft)	1,715		(5.6)		1,595	(5.2)	N/P	N/P	1,570	(5.2)
Reach With Arms Horizontal and Bucket Level mm (ft)	2,510		(8.2)		2,500	(8.2)	N/P	N/P	N/P	N/P
Hinge Pin Height at Full Raise mm (ft)	4,000		(13.1)		N/P	N/P	N/P	N/P	3,950	(13.0)
Tire Size	23.5-25-16PR				20.5-R25		20.5-R25		23.5-25 L3	
Tread mm (ft)	2,200		(7.2)		2,050	(6.7)	N/P	N/P	2,050	(6.7)
Width Over Tires mm (ft)	2,800		(9.2)		2,590	(8.5)	N/P	N/P	2,657	(8.7)
Wheelbase mm (ft)	3,250		(10.7)		3,030	(9.9)	N/P	N/P	3,090	(10.1)
Loader Clearance Circle - Bucket at Carry, Outside Corner of Bucket mm (ft)	14,325		(47.0)		N/P	N/P	N/P	N/P	12,240	(40.2)
Ground Clearance mm (in)	450		(17.7)		425	(16.7)	N/P	N/P	384	(15.1)
Hitch Height mm (in)	1,150		(45.3)		N/P	N/P	N/P	N/P	N/P	N/P
Overall Height - Top of Stack mm (ft)	3,025		(9.9)		3,040	(10.0)	N/P	N/P	N/P	N/P
Overall Height - Top of ROPS Cab mm (ft)	3,450		(11.3)		3,200	(10.5)	3,340	(11.0)	3,320	(10.9)
Performance										
Hydraulic Cycle Time - Boom Raise (sec)	5.8				6.3		6.2		5.9	
Hydraulic Cycle Time - Bucket Dump (sec)	1.2				1.9		1.7		1.3	
Hydraulic Cycle Time - Boom Lower (sec)	3.8				3.5		2.7		2.7	
Straight Static Tipping Load kg (lb)	13,457		(29,668)		11,500	(25,353)	11,837	(26,096)	13,822	(30,472)
Full Turn Static Tipping Load kg (lb)	11,705		(25,805)		9,780	(21,561)	10,045	(22,145)	11,979	(26,409)
Breakout Force kg (lb)	16,315		(35,968)		16,470	(36,310)	13,170	(29,035)	12,821	(28,265)

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