



Wheel Loader	Rhino RWL186		Komatsu WA380-7		Caterpillar 950GC		John Deere 644K		Volvo L110H		Case 821G	
<b>General</b>												
Brand	Rhino		Komatsu		Caterpillar		John Deere		Volvo		Case	
Model	RWL186		WA380-7		950GC		644K		L110H		821G	
Bucket Type	General Purpose		General Purpose		General Purpose		General Purpose		General Purpose		General Purpose	
Bucket Capacity m3 (cu. Yd)	3.5	(4.6)	3.3	(4.3)	3.1	(4.1)	3.2	(4.2)	3.5	(4.6)	3.2	(4.2)
Net Horsepower kW (hp)	179	(240)	142	(190)	168	(225)	173	(232)	190	(255)	158	(212)
Operating Weight kg (lb)	18,600	(41,006)	18,070	(39,838)	18,849	(41,555)	18,682	(41,187)	18,490	(40,763)	18,170	(40,058)
<b>Engine</b>												
Engine Model (optional)	Cummins 6CTAA8.3 (Rhino)		SAA6D107E		C7.1 ACERT		6090		D8J		F4HFE613X	
Gross Horsepower -SAE J1995 kW (hp)	179	(240)	142	(190)	168	(225)	173	N/P	190	(255)	158	(212)
Rated RPM (rpm)	2,200		2,100		1,700		1,700		N/P		2,000	
Engine Type	Direct injection Water cooled		Water-Cooled, 4-Cycle		Water-Cooled		Water-Cooled		Water-cooled		4-Stroke	
Aspiration	Turbocharged		Turbocharged, Aftercooler		Turbocharged, Aftercooler		Turbocharged, Charge Air Cooled		Turbocharged		Turbocharged	
Number of Cylinders	6		6		6		6		6		6	
Bore x Stroke mm (in)	114 x 135	(4.5 x 5.3)	107 x 124	(4.2 x 4.8)	105 x 135	(4.1 x 5.3)	N/P	N/P	N/P	N/P	104 x 132	(4.1 x 5.2)
Piston Displacement L (cu. In)	8.3	(506)	6.7	(408)	7.0	(427)	6.8	(415)	7.8	(473)	6.7	(409)
Fan Drive for Radiator Cooling	Hydraulic		Hydraulic		Hydraulic		Hydraulic Proportional Control		Hydrostatic, Electronically Controlled		N/P	
Reversible Fan Control	Opt		Automatic Reversible		N/P		Option		Auto Reverse Fan		N/P	
<b>Drivetrain</b>												
Torque Converter Type	4 Element, Single Stage		3-element, Single-Stage, Single-Phase		Free Wheel Stator		Single Stage, Single Phase		Single Stage		N/P	
Transmission Type	Powershift - Fixed Shaft		Automatic Full-Powershift, Contershaft Type		Planetary Powershift		Countershaft-Type Powershift		Countershaft-Type, with Pulse Width Modulation Valve		Module Torque Sensing Autoshift/Manualshift & Modulation	
Number of Speeds (Fwd/Rev)	2/1		4/4		4/3		5/3		4/4		4/3	
Max. Speed (Fwd) kph (mph)	23	(14)	37	(23)	36	(22)	40	(25)	40	(25)	37	(23)
Max. Speed (Rev) kph (mph)	12	(7)	38	(24)	22	(14)	29	(18)	40	(25)	24	(15)
Traction Control	Limited Slip		N/P		N/P		N/P		N/P		Limited Slip	
Reduction Gear	Single Stage Planetary		Spiral Bevel Gear		N/P		Planetary		N/P		Helical	
Front Axle	Fixed		Fixed, Semifloating		Fixed		Fixed		Floating		Fixed	
Rear Axle	Floating		Center-Pin Support, Semi-Floating		Oscillating		Oscillating		Oscillating		Oscillating	
Rear Axle Oscillation (deg)	24		36		26		26		26		24	
Service Brakes	Hydraulic Actuated Pneumatically Assisted		Hydraulically Actuated, Wet Disc Brakes Actuate on Four Wheels		N/P		Hydraulic Actuated, Inboard Sun-Shaft Mounted, Oil Cooled, Self Adjusting		Outboard-Mounted Hydraulic, Oil Cooled Wet Disc		Hydraulically Actuated	
Parking Brake	Inner Expand Band on Output Shaft		Wet Disc Brake		N/P		Automatic Spring Applied, Hydraulic Released, Driveline Mounted, Oil Cooled		Fully Sealed, Wet Multi Disc, Spring Forced with Electrohydraulic Release		Spring-Applied Hydraulic Release Disc on Transmission Output Shaft	
<b>Steering</b>												
Steering Type	Middle Articulated Frame		Articulated Type, Full-Hydraulic Power Steering		Hydraulic Steering System		Power Fully Hydraulic		Load Sensing Hydrstostatic Articulated		N/P	
Steering Angle (deg)	35		40		37		40		40		40	
Minimum Turning Radius (Center of Outside Tire) mm (ft)	6,400	(21.0)	6,335	(20.8)	N/P	N/P	5,570	(18.3)	5,730	(18.8)	6,030	(19.8)
<b>Bucket</b>												
Bucket Type	General Purpose		General Purpose		General Purpose		General Purpose		General Purpose		General Purpose	
Bucket Capacity - Heaped m3 (cu. Yd)	3.5	(4.6)	3.3	(4.3)	3.1	(4.1)	3.2	(4.2)	3.0	(3.9)	3.2	(4.2)
Bucket Capacity - Struck m3 (cu. Yd)	3.0	(3.9)	2.9	(3.8)	N/P	N/P	2.8	(3.7)	N/P	N/P	2.7	(3.5)
Bucket Width mm (ft)	3,064	(10.1)	2,905	(9.5)	2,927	(9.6)	3,040	(10.0)	3,000	(9.8)	3,030	(9.9)
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 Edge	
Bucket Weight kg (lb)	1,650	(3,638)	1,605	(3,538)	N/P	N/P	1,735	(3,825)	N/P	N/P	1,561	(3,441)
<b>Dimensions</b>												
Loader Linkage Type	Z-Bar		Z-Bar		Z-Bar		Z-Bar		Torque Parallel		Z-Bar	
Dump Clearance Max. Height, 45 Deg. Dump Angle mm (ft)	3,028	(9.9)	3,015	(9.9)	2,776	(9.1)	2,910	(9.5)	N/P	N/P	2,983	(9.8)
Reach at Max. Height, 45 Deg. Dump Angle mm (ft)	1,320	(4.3)	1,195	(3.9)	1,337	(4.4)	1,060	(3.5)	N/P	N/P	1,107	(3.6)
Reach at 7', 45 Deg. Dump Angle mm (ft)	2,100	(6.9)	1,840	(6.0)	N/P	N/P	1,610	(5.3)	N/P	N/P	1,703	(5.6)
Reach With Arms Horizontal and Bucket Level mm (ft)	2,690	(8.8)	2,690	(8.8)	2,691	(8.8)	N/P	N/P	N/P	N/P	N/P	N/P
Hinge Pin Height at Full Raise mm (ft)	4,300	(14.1)	4,165	(13.7)	3,992	(13.1)	4,120	(13.5)	4,100	(13.5)	4,123	(13.5)
Tire Size	23.5-25-16PR		23.5 R25 (L3)		23.5 R25 (L3)		23.5 R 25 L3		23.5 R 25 L3		23.5-25 XHATL	
Tread mm (ft)	2,300	(7.5)	2,200	(7.2)	2,140	(7.0)	2,170	(7.1)	2,070	(6.8)	2,230	(7.3)
Width Over Tires mm (ft)	2,897	(9.5)	2,820	(9.3)	2,784	(9.1)	2,875	(9.4)	2,670	(8.8)	2,890	(9.5)
Wheelbase mm (ft)	3,300	(10.8)	3,300	(10.8)	3,350	(11.0)	3,260	(10.7)	3,200	(10.5)	3,340	(11.0)
Loader Clearance Circle - Bucket at Carry, Outside Corner of Bucket mm (ft)	15,965	(52.4)	14,540	(47.7)	N/P	N/P	13,190	(43.3)	12,840	(42.1)	13,279	(43.6)
Ground Clearance mm (in)	460	(18.1)	455	(17.9)	412	(16.2)	461	(18.1)	440	(17.3)	416	(16.4)
Hitch Height mm (in)	1,150	(45.3)	1,150	(45.3)	N/P	N/P	N/P	N/P	N/P	N/P	N/P	N/P
Overall Height - Top of Stack mm (ft)	3,445	(11.3)	2,940	(9.6)	3,369	(11.1)	N/P	N/P	N/P	N/P	N/P	N/P
Overall Height - Top of ROPS Cab mm (ft)	3,565	(11.7)	3,390	(11.1)	3,452	(11.3)	3,430	(11.3)	3,380	(11.1)	3,450	(11.3)
<b>Performance</b>												
Hydraulic Cycle Time - Boom Raise (sec)	6.0		6.1		6.2		6.4		5.4		6.2	
Hydraulic Cycle Time - Bucket Dump (sec)	1.9		2.0		1.3		1.6		2.1		1.2	
Hydraulic Cycle Time - Boom Lower (sec)	3.9		3.3		2.5		3.0		2.5		2.9	
Straight Static Tipping Load kg (lb)	14,057	(30,990)	14,960	(32,981)	13,903	(30,651)	14,906	(32,862)	14,250	(31,416)	14,275	(31,471)
Full Turn Static Tipping Load kg (lb)	12,850	(28,329)	13,785	(30,391)	12,132	(26,746)	12,879	(28,393)	12,610	(27,800)	12,349	(27,225)
Breakout Force kg (lb)	18,600	(41,006)	18,300	(40,345)	14,479	(31,921)	15,378	(33,903)	16,370	(36,090)	16,029	(35,338)

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