



Wheel Loader	Rhino RWL315	Komatsu WA500-7	Caterpillar 980M	John Deere 844K II	Volvo L220H
General					
Brand	Rhino	Komatsu	Caterpillar	John Deere	Volvo
Model	RWL315	WA500-7	980M	844K II	L220H
Bucket Type	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose
Bucket Capacity m3 (cu. Yd)	5.5 (7.2)	5.6 (7.3)	5.4 (7.1)	5.5 (7.2)	5.6 (7.3)
Net Horsepower kW (hp)	250 (335)	263 (353)	288 (386)	283 (380)	273 (366)
Operating Weight kg (lb)	31,500 (69,446)	33,850 (74,626)	30,090 (66,337)	33,808 (74,534)	31,950 (70,438)
Engine					
Engine Model (optional)	Cummins M11 (Rhino)	SAA6D140E-6	C.13 ACERT	6135	D13J
Gross Horsepower -SAE J1995 kW (hp)	250 (335)	263 (353)	288 (386)	283 (380)	273 (366)
Rated RPM (rpm)	2,100	2,000	1,700	1,600	1,400
Engine Type	Direct Injection Water Cooled	Water-Cooled, 4-Cycle	Turbocharged	Water-Cooled	Water-Cooled
Aspiration	Turbocharged	Trubocharged, Aftercooled, Cooled EGR	N/P	Turbocharged, Charge Air Cooled	Turbocharged
Number of Cylinders	6	6	N/P	6	6
Bore x Stroke mm (in)	125 x 147 (4.9 x 5.8)	140 x 165 (5.5 x 6.4)	130 x 157 (5.1 x 6.1)	N/P N/P	N/P N/P
Piston Displacement L (cu. In)	11 (659)	15 (928)	13 (763)	13.5 (824)	12 (732)
Fan Drive for Radiator Cooling	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydrostatic, Electronically Controlled
Reversible Fan Control	OPT	Switch-Controlled	N/P	Auto-Reverse	Auto-Reverse
Drivetrain					
Torque Converter Type	4 Element, Single Stage	3-element, Single-Stage, Single-Phase	Free Wheel Stator	Single Stage, Dual Phase with Freewheeling Stator	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
Number of Speeds (Fwd/Rev)	4/3	4/4	4/4	4/3	4/4
Max. Speed (Fwd) kph (mph)	37 (23)	35 (22)	36 (22)	41 (25)	36 (22)
Max. Speed (Rev) kph (mph)	26 (16)	38 (24)	42 (26)	27 (17)	36 (22)
Traction Control	Limited Slip	N/P	N/P	N/P	N/P
Reduction Gear	Single Stage	Spiral Bevel Gear	N/P	N/P	N/P
Front Axle	Fixed	Fixed, Semi-Floating	Rigid Mount	N/P	Fixed
Rear Axle	Floating	Center-Pin Support, Semi-Floating	Oscillating	Oscillating	Oscillating
Rear Axle Oscillation (deg)	24	24	13	26	15
Service Brakes	Hydraulic Actuated Pneumatically Assisted	Wet Disc on 4 Wheels, Hydraulically Actuated	N/P	Outboard, Forced Oil Cooled, Multi-Disc	Outboard-Mounted Hydraulic, Oil Cooled Wet Disc
Parking Brake	Electronic Activation	Wet Disc	N/P	Automatic Spring Applied, Hydraulic Released, Oil Cooled, Multi Disc	Fully Sealed, Wet Multi Disc, Spring Forced with Electrohydraulic Release
Steering					
Steering Type	Middle Articulated Frame	Articulated, Full Hydraulic Power Steering	Hydraulic	Power, Fully Hydraulic	Load Sensing Hyrdostatic Articulated
Steering Angle (deg)	40	40	N/P	40	37
Minimum Turning Radius (Center of Outside Tire) mm (ft)	6,614 (21.7)	7,050 (23.1)	N/P N/P	6,299 (20.7)	7,110 (23.3)
Bucket					
Bucket Type	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose
Bucket Capacity - Heaped m3 (cu. Yd)	5.1 (6.7)	5.6 (7.3)	5.7 (7.5)	5.5 (7.2)	6.0 (7.8)
Bucket Capacity - Struck m3 (cu. Yd)	4.4 (5.8)	4.8 (6.3)	4.9 (6.4)	4.7 (6.1)	N/P N/P
Bucket Width mm (ft)	3,500 (11.5)	3,400 (11.2)	3,447 (11.3)	3,454 (11.3)	3,400 (11.2)
Bucket Edge Type	Bolt-on Cutting Edge	Bolt-on Cutting Edges	Bolt-on Cutting Edges	Bolt-on Cutting Edges	Bolt-on Cutting Edges
Bucket Weight kg (lb)	3,100 (6,834)	3,110 (6,856)	N/P N/P	3,759 (8,287)	N/P N/P
Dimensions					
Loader Linkage Type	Z-Bar	Z-Bar	Z-Bar	Z-Bar	Torque Parallel Linkage
Dump Clearance Max. Height, 45 Deg. Dump Angle mm (ft)	3,325 (10.9)	3,185 (10.4)	3,272 (10.7)	3,327 (10.9)	3,220 (10.6)
Reach at Max. Height, 45 Deg. Dump Angle mm (ft)	1,400 (4.6)	1,235 (4.1)	1,534 (5.0)	1,498 (4.9)	1,350 (4.4)
Reach at 7', 45 Deg. Dump Angle mm (ft)	2,020 (6.6)	1,980 (6.5)	N/P N/P	2,286 (7.5)	2,070 (6.8)
Reach With Arms Horizontal and Bucket Level mm (ft)	2,745 (9.0)	2,750 (9.0)	3,010 (9.9)	N/P N/P	N/P N/P
Hinge Pin Height at Full Raise mm (ft)	4,460 (14.6)	4,360 (14.3)	4,505 (14.8)	4,623 (15.2)	4,670 (15.3)
Tire Size	29.5-25 -22PR (L-3)	26.5 - R25 (L3)	29.5-25	29.5-25	29.5 - R25 L-4
Tread mm (ft)	2,450 (8.0)	2,300 (7.5)	2,440 (8.0)	2,440 (8.0)	N/P N/P
Width Over Tires mm (ft)	3,200 (10.5)	3,010 (9.9)	3,227 (10.6)	3,194 (10.5)	3,170 (10.4)
Wheelbase mm (ft)	3,650 (12.0)	3,450 (11.3)	3,700 (12.1)	3,708 (12.2)	3,700 (12.1)
Loader Clearance Circle - Bucket at Carry, Outside Corner of Bucket mm (ft)	15,022 (49.3)	15,290 (50.2)	15,829 (51.9)	15,061 (49.4)	15,540 (51.0)
Ground Clearance mm (in)	461 (18.1)	525 (20.7)	442 (17.4)	462 (18.2)	540 (21.3)
Hitch Height mm (in)	1,240 (48.8)	1,240 (48.8)	N/P N/P	N/P N/P	N/P N/P
Overall Height - Top of Stack mm (ft)	3,720 (12.2)	3,080 (10.1)	3,716 (12.2)	N/P N/P	N/P N/P
Overall Height - Top of ROPS Cab mm (ft)	3,832 (12.6)	3,500 (11.5)	3,765 (12.4)	3,759 (12.3)	3,730 (12.2)
Performance					
Hydraulic Cycle Time - Boom Raise (sec)	6.0	7.2	6.0	6.3	5.8
Hydraulic Cycle Time - Bucket Dump (sec)	1.6	1.7	2.1	1.9	1.6
Hydraulic Cycle Time - Boom Lower (sec)	3.4	4.2	3.4	3.5	3.2
Straight Static Tipping Load kg (lb)	18,000 (39,683)	N/P N/P	21,735 (47,917)	23,355 (51,489)	23,540 (51,897)
Full Turn Static Tipping Load kg (lb)	16,500 (36,376)	N/P N/P	19,496 (42,981)	20,020 (44,137)	20,610 (45,437)
Breakout Force kg (lb)	26,400 (58,202)	N/P N/P	21,617 (47,657)	21,709 (47,860)	21,710 (47,862)
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