



MOTOR GRADER		Rhino RM123					Komatsu GD655-6		Caterpillar 120M2		Case 845B		
<b>General</b>													
Brand	Rhino Equipment					Komatsu		Caterpillar		Case			
Model	RM123					GD655-6		120M2		845B			
Flywheel Horsepower kW (hp)	132	(177)	138	(185)	105	(141)	134	(180)	108	(145)	119	(160)	
Operating Weight kg (lb)	14,500					(31,967)		16,940	(37,346)	18,095	(39,893)	14,430	(31,813)
<b>Engine</b>													
Engine Make	Cummins		(Cummins)		(Rhino)		Komatsu		Caterpillar		Case		
Engine Model	6BTA5.9		6CTAA8		RD140-8A		SAA6D107E-3		Cat C7.1 ACERT		FPT 6.7L		
Engine Type	Water Cooled 4-Cycle Direct Injection 6 CYL					Water Cooled 4-Cycle Direct Injection 6 CYL		Water Cooled 4-Cycle Direct Injection Charge Air Cooled		4 Stroke Air to Air Aftercooled			
Aspiration	Turbocharged					Turbocharged And Air to Air Aftercooled		Turbocharged Charge Air Cooled		Turbocharged			
Number of Cylinders	6					6		6		6			
Bore x Stroke mm (in)	102 x 120			(4 x 4.7)			107 x 124	(4.21 x 4.88)	105 x 135	(4 x 4.7)	104 x 132	(4 x 4.7)	
Piston Displacement L (cu. In)	5.9	(360)	8.3	(506)	8	(488)	6.69	(408)	7	(427)	6.7	(409)	
Base Horsepower Net kW (hp)	132	(177)	138	(185)	105	(141)	163	(219)	103	(138)	119	(160)	
Peak Torque kg-m (ft-lb)	733	(5,302)	856	(6,191)	518	(3,747)	N/P	N/P	N/P	N/P	N/P	N/P	
Base Power Torque Rise (%)	28		50		20		31		45		N/P		
Governor Type	Electronic					Electronic		Electronic		N/P			
Fan Type	Belt Driven					N/P		Hydraulic Driven Variable Speed		N/P			
Fan Speed Max. (rpm)	1,200					1,500		N/P		N/P			
Fan Speed Min. (rpm)	600					N/P		N/P		N/P			
Fuel System	Direct Injection					N/P		Common Rail		Common Rail			
Lubrication System Method	Full Flow					N/P		N/P		N/P			
Lubrication Filter	Spin On					N/P		N/P		N/P			
Air Cleaner	2-Stage, Dry Type					2-Stage, Dry Type		N/P		N/P			
Electrical Volts/Amps	24/55					24/60		24/150		24/90			
Battery (CCA)	950					1,146		1,125		1,010			
<b>Tires</b>													
Tires	17.5x25 12PR					17.5R25		14 x 25		14 x 24 12PR			
<b>Work Equipment</b>													
Circle Diameter mm (ft)	1,415		(4.6)		1,530		(5.0)		1,530		(5.0)		
Number of Circle Shoes	4					4		N/P		N/P			
Drawbar Frame (Width x Height) mm (in)	76.2 x 152			(3 x 6)			210 x 25	(8.3 x 1)	76.2 x 152	(3 x 6)	N/P	N/P	
Moldboard (Width x Height x Thickness) mm (in)	3,343 x 520 x 19			(132 x 20.5 x 0.75)			3,710 x 645 x 19	(146 x 25 x 0.74)	3,700 x 610 x 22	(146 x 24 x 0.9)	3,658 x 559 x 22	(144 x 25 x 0.9)	
Arc Radius mm (in)	460		(18.1)		329		(13.0)		413		(16.3)		
Cutting Edge (Height x Thickness) mm (in)	154 x 17		(6.1 x 0.67)			152 x 16		(6 x 0.63)		152 x 16		(6 x 0.63)	
End Bits (Height x Thickness) mm (in)	154 x 17		(6.1 x 0.67)			152 x 16		(6 x 0.63)		152 x 16		(6 x 0.63)	
Circle Center Shift Right mm (ft)	455		(1.5)		590		(1.9)		656		(2.2)		
Circle Center Shift Left mm (ft)	455		(1.5)		590		(1.9)		656		(2.2)		
Moldboard Side Shift Right mm (ft)	1,815		(6.0)		820		(2.7)		660		(2.2)		
Moldboard Side Shift Left mm (ft)	1,425		(4.7)		820		(2.7)		510		(1.7)		
Max. Shoulder Reach Outside Rear Tires Frame Straight Right mm (ft)	1,316		(4.3)		2,000		(6.6)		1,905		(6.3)		
Max. Shoulder Reach Outside Rear Tires Frame Straight Left mm (ft)	1,012		(3.3)		2,000		(6.6)		1,742		(5.7)		
Max. Lift Above Ground mm (ft)	550		(1.8)		480		(1.6)		427		(1.4)		
Max. Cutting Depth mm (ft)	795		(2.6)		615		(2.0)		720		(2.4)		
Max. Blade Angle Right (deg)	90					90		90		90			
Max. Blade Angle Left (deg)	90					90		90		90			
Blade Tip Angle Forward (deg)	40					40		40		47			
Blade Tip Angle Backward (deg)	5					5		5		3			
<b>Hydraulics</b>													
Hydraulics Circuit Type	Closed Center Load Sense Proportional Demand Flow					Load Sensing Closed Center		Parallel		Closed Center Load Sensing			
Hydraulic Pump Type	Axial Piston					Variable Displacement Piston Pump		Variable Piston		Variable Displacement Piston Pump			
Pump Output ltr/min (gpm)	208		(54.9)		200		(52.8)		210		(55.5)		
Relief Valve Setting Mpa (psi)	20		(2,901)		21		(3,046)		25		(3,582)		
<b>Dimensions</b>													
Overall Length - Front Tire to Rear Bumper mm (ft)	8,615		(28.3)		9,205		(30.2)		8,733		(28.7)		
Overall Height mm (ft)	3,400		(11.2)		3,200		(10.5)		3,320		(10.9)		
Gauge mm (ft)	2,360		(7.7)		2,060		(6.8)		2,133		(7.0)		
Width of Tires mm (ft)	2,530		(8.3)		2,485		(8.2)		2,547		(8.4)		
Width of Ripper Beam mm (ft)	2,300		(7.5)		2,305		(7.6)		N/P		N/P		
Center of Front Axle to Counterweight mm (ft)	680		(2.2)		927		(3.0)		N/P		N/P		
Cutting Edge to Center of Front Axle mm (ft)	2,495		(8.2)		2,580		(8.5)		2,463		(8.1)		
Wheelbase, Front wheel to Center of Tandem mm (ft)	6,100		(20.0)		6,480		(21.3)		5,917		(19.4)		
Tandem Wheelbase mm (ft)	1,520		(5.0)		1,525		(5.0)		1,510		(5.0)		
Center of Tandem to Back of Ripper mm (ft)	2,800		(9.2)		2,780		(9.1)		N/P		N/P		
<b>Weight</b>													
Operating Weight Total kg (lb)	14,500		(31,967)		16,940		(37,346)		18,095		(39,893)		
Weight on Front Axle kg (lb)	4,000		(8,818)		4,205		(9,270)		3,924		(8,651)		
Weight on Rear Axle kg (lb)	10,500		(23,149)		11,290		(24,890)		11,963		(26,374)		
<b>Maintenance</b>													
Refill Capacity - Fuel L (gal)	285		(75.3)		390		(103.0)		378		(99.9)		
Refill Capacity - Cooling L (gal)	50		(13.2)		30		(7.9)		33		(8.7)		
Refill Capacity - Engine Oil L (gal)	27		(7.1)		N/P		N/P		14		(3.7)		
Refill Capacity - Transmission L (gal)	30		(7.9)		45		(11.9)		N/P		N/P		
Refill Capacity - Final Drive L (gal)	N/P		N/P		17		(4.5)		63		(16.5)		
Refill Capacity - Tandem Housing Each L (gal)	84		(22.2)		57		(15.1)		59		(15.6)		
Refill Capacity - Hydraulic System L (gal)	70		(18.5)		69		(18.2)		64		(16.9)		
Refill Capacity - Circle Reverse L (gal)	N/P		N/P		7		(1.8)		7		(1.8)		

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