



MOTOR GRADER	Rhino RM165		Komatsu GD655-6		Caterpillar 160M		John Deere 670GP		Volvo G960B	
General	Rhino RM165		Komatsu GD655-6		Caterpillar 160M		John Deere 670GP		Volvo G960B	
Brand	Rhino		Komatsu		Caterpillar		John Deere		Volvo	
Model	RM165		GD655-6		160M		670GP		G960B	
Flywheel Horsepower kW (hp)	164	(220)	163	(219)	160	(215)	175	(235)	167	(224)
Operating Weight kg (lb)	16,400	(36,156)	16,940	(37,346)	20,540	(45,283)	15,976	(35,221)	18,070	(39,838)
Engine	Cummins (Rhino)		Komatsu		Caterpillar		John Deere		Volvo	
Engine Make (optional)	Cummins (Rhino)		Komatsu		Caterpillar		John Deere		Volvo	
Engine Model	QSB6		SAA6D107E-3		Cat C9.3 ACERT		Power Tech PSS 9.0L		D8HGAE4	
Engine Type	Water Cooled 4-Cycle Direct Injection 6 CYL		Water Cooled 4-Cycle Direct Injection 6 CYL		Water Cooled 4-Cycle Direct Injection 6 CYL		Water Cooled 4-Cycle Direct Injection 6 CYL		Turbocharged Aftercooled w Wet Cylinders	
Aspiration	Turbocharged and Air to Air Aftercooled		Turbocharged And Air to Air Aftercooled		Turbocharged Charge Air Cooled		Turbocharged Charge Air Cooled		Turbocharged	
Number of Cylinders	6		6		6		6		6	
Bore x Stroke mm (in)	107 x 124	(4.5 x 5.3)	107 x 124	(4.21 x 4.88)	115 x 149	(4.5 x 5.9)	N/P	N/P	110 x 136	(4.3 x 5.3)
Piston Displacement L (cu. In)	6.7	(409)	6.69	(408)	9.3	(568)	9	(549)	7.8	(476)
Base Horsepower Net kW (hp)	164	(220)	163	(219)	165	(221)	175	(235)	146	(196)
Peak Torque kg-m (ft-lb)	80	(579)	N/P	N/P	N/P	N/P	112	(810)	N/P	N/P
Base Power Torque Rise (%)	12		31		39		N/P		N/P	
Governor Type	Electronic		Electronic		Electronic		N/P		N/P	
Fan Type	Hydraulic Driven		N/P		N/P		Hydraulic Driven Variable Speed Reversible		Hydraulically Driven With Opt Auto Reversing	
Fan Speed Max. (rpm)	1,550		1,500		N/P		N/P		N/P	
Fan Speed Min. (rpm)	610		N/P		N/P		N/P		N/P	
Fuel System	Direct Injection		N/P		Common Rail		N/P		V-ACT	
Lubrication System Method	Full Flow With Integrated Cooler		N/P		N/P		Full Flow With Intergrated Cooler		N/P	
Lubrication Filter	Spin On		N/P		N/P		Spin On		N/P	
Air Cleaner	2 Stage Dry Type		2-Stage, Dry Type		N/P		Dual Element Dry		N/P	
Electrical Volts/Amps	24/70		24/60		N/P		24/100		24/80	
Battery (CCA)	850		1,146		N/P		1,400		1,125	
Tires	17.5-25-12PR		17.5R25		17.5R25		14 x 24		14R4	
Work Equipment	1,415		1,530		1,530		1,524		1,626	
Circle Diameter mm (ft)	(4.6)		(5.0)		(5.0)		(5.0)		(5.3)	
Number of Circle Shoes	6		4		N/P		N/P		3	
Drawbar Frame (Width x Height) mm (in)	250 x 300	(9.8 x 11.8)	210 x 25	(8.3 x 1)	76.2 x 152	(3 x 6)	N/P	N/P	165 x 165	(9.8 x 11.8)
Moldboard (Width x Height x Thickness) mm (in)	4,320 x 645 x 22	(165 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 0.87)	3,660 x 610 x 22	(132 x 20.5 x 0.9)	3,658 x 635 x 22	(144 x 25 x 0.87)
Arc Radius mm (in)	422	(16.6)	329	(13.0)	413	(16.3)	N/P	N/P	N/P	N/P
Cutting Edge (Height x Thickness) mm (in)	155 x 18	(6.1 x 0.71)	152 x 16	(6 x 0.63)	152 x 16	(6 x 0.63)	152 x 16	(6 x 0.63)	152 x 16	(6 x 0.63)
End Bits (Height x Thickness) mm (in)	155 x 18	(6.1 x 0.71)	152 x 16	(6 x 0.63)	152 x 16	(6 x 0.63)	N/P	N/P	152 x 16	(6 x 0.63)
Circle Center Shift Right mm (ft)	455	(1.5)	590	(1.9)	728	(2.4)	787	(2.6)	749	(2.5)
Circle Center Shift Left mm (ft)	455	(1.5)	590	(1.9)	695	(2.3)	787	(2.6)	775	(2.5)
Moldboard Side Shift Right mm (ft)	1,920	(6.3)	820	(2.7)	660	(2.2)	683	(2.2)	673	(2.2)
Moldboard Side Shift Left mm (ft)	1,520	(5.0)	820	(2.7)	510	(1.7)	683	(2.2)	673	(2.2)
Max. Shoulder Reach Outside Rear Tires Frame Straight Right mm (ft)	1,990	(6.5)	2,000	(6.6)	1,978	(6.5)	2,083	(6.8)	2,010	(6.6)
Max. Shoulder Reach Outside Rear Tires Frame Straight Left mm (ft)	1,850	(6.1)	2,000	(6.6)	1,790	(5.9)	2,038	(6.7)	2,020	(6.6)
Max. Lift Above Ground mm (ft)	450	(1.5)	480	(1.6)	480	(1.6)	490	(1.6)	445	(1.5)
Max. Cutting Depth mm (ft)	535	(1.8)	615	(2.0)	715	(2.3)	N/P	N/P	790	(2.6)
Max. Blade Angle Right (deg)	90		90		90		N/P		90	
Max. Blade Angle Left (deg)	90		90		90		N/P		90	
Blade Tip Angle Forward (deg)	46		40		40		42		45	
Blade Tip Angle Backward (deg)	0		5		5		5		6	
Hydraulics	Closed Center		Load Sensing Closed Center		Parallel		Load Sensing Press Compensated Closed Center(PCLS)		Closed center,load sense Proportional demand flow	
Hydraulics Circuit Type	Closed Center		Load Sensing Closed Center		Parallel		Load Sensing Press Compensated Closed Center(PCLS)		Closed center,load sense Proportional demand flow	
Hydraulic Pump Type	Inc Steering Pump		Variable Displacement Piston Pump		Variable Piston		Variable Displacement Piston Pump		Axial Piston	
Pump Output ltr/min (gpm)	205	(54.2)	200	(52.8)	210	(55.5)	212	(56.0)	208	(54.9)
Relief Valve Setting Mpa (psi)	17	(2,466)	21	(3,046)	25	(3,626)	19	(2,698)	21	(3,046)
Dimensions	8,990		9,205		8,912		8,890		9,150	
Overall Length - Front Tire to Rear Bumper mm (ft)	(29.5)		(30.2)		(29.2)		(29.2)		(30.0)	
Overall Height mm (ft)	3,400		3,200		3,308		3,180		3,225	
Gauge mm (ft)	(11.2)		(10.5)		(10.9)		(10.4)		(10.6)	
Width of Tires mm (ft)	2,120		2,060		N/P		N/P		2,076	
Width of Ripper Beam mm (ft)	(7.0)		(6.8)		N/P		N/P		(6.8)	
Width of Tires mm (ft)	2,600		2,485		2,140		N/P		2,717	
Width of Ripper Beam mm (ft)	(8.5)		(8.2)		(7.0)		N/P		(8.9)	
Center of Front Axle to Counterweight mm (ft)	2,300		2,305		N/P		2,210		N/P	
Center of Front Axle to Counterweight mm (ft)	(7.5)		(7.6)		N/P		(7.3)		N/P	
Cutting Edge to Center of Front Axle mm (ft)	1,075		927		N/P		N/P		N/P	
Cutting Edge to Center of Front Axle mm (ft)	(3.5)		(3.0)		N/P		N/P		N/P	
Wheelbase, Front wheel to Center of Tandem mm (ft)	2,575		2,580		2,552		2,570		2,650	
Wheelbase, Front wheel to Center of Tandem mm (ft)	(8.4)		(8.5)		(8.4)		(8.4)		(8.7)	
Tandem Wheelbase mm (ft)	6,150		6,480		N/P		6,160		6,280	
Tandem Wheelbase mm (ft)	(20.2)		(21.3)		N/P		(20.2)		(20.6)	
Center of Tandem to Back of Ripper mm (ft)	1,530		1,525		1,523		1,540		N/P	
Center of Tandem to Back of Ripper mm (ft)	(5.0)		(5.0)		(5.0)		(5.1)		N/P	
Center of Tandem to Back of Ripper mm (ft)	2,750		2,780		N/P		N/P		N/P	
Center of Tandem to Back of Ripper mm (ft)	(9.0)		(9.1)		N/P		N/P		N/P	
Weight	16,400		16,940		20,540		15,976		18,070	
Operating Weight Total kg (lb)	(36,156)		(37,346)		(45,283)		(35,221)		(39,838)	
Weight on Front Axle kg (lb)	4,920		4,205		4,494		4,178		5,100	
Weight on Front Axle kg (lb)	(10,847)		(9,270)		(9,908)		(9,211)		(11,244)	
Weight on Rear Axle kg (lb)	11,480		11,290		13,069		11,798		12,450	
Weight on Rear Axle kg (lb)	(25,309)		(24,890)		(28,812)		(26,010)		(27,448)	
Maintenance	350		390		416		416		400	
Refill Capacity - Fuel L (gal)	(92.5)		(103.0)		(109.9)		(110.0)		(105.7)	
Refill Capacity - Cooling L (gal)	60		30		40		55		34	
Refill Capacity - Cooling L (gal)	(15.9)		(7.9)		(10.6)		(14.5)		(9.0)	
Refill Capacity - Engine Oil L (gal)	27		N/P		30		28		22	
Refill Capacity - Engine Oil L (gal)	(7.1)		N/P		(7.9)		(7.4)		(5.7)	
Refill Capacity - Transmission L (gal)	45		45		65		28		61	
Refill Capacity - Transmission L (gal)	(11.9)		(11.9)		(17.2)		(7.4)		(16.1)	
Refill Capacity - Final Drive L (gal)	N/P		17		65		N/P		23	
Refill Capacity - Final Drive L (gal)	N/P		(4.5)		(17.2)		N/P		(6.0)	
Refill Capacity - Tandem Housing Each L (gal)	84		57		N/P		74		134	
Refill Capacity - Tandem Housing Each L (gal)	(22.2)		(15.1)		N/P		(19.5)		(35.4)	
Refill Capacity - Hydraulic System L (gal)	70		69		64		61		91	
Refill Capacity - Hydraulic System L (gal)	(18.5)		(18.2)		(16.9)		(16.1)		(24.0)	
Refill Capacity - Circle Reverse L (gal)	N/P		7		7		5.7		N/P	
Refill Capacity - Circle Reverse L (gal)	N/P		(1.8)		(1.8)		(1.5)		N/P	
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