



MOTOR GRADER	Rhino RM138		Komatsu GD655-6		Volvo G940B		Case 865B	
General	Rhino		Komatsu		Volvo		Case	
Brand	Rhino		Komatsu		Volvo		Case	
Model	RM138		GD655-6		G940B		865B	
Flwwheel Horsepower kW (hp)	138	(185)	134	(180)	146	(196)	133	(178)
Operating Weight kg (lb)	15,200	(33,510)	16,940	(37,346)	16,980	(37,434)	15,330	(33,797)
Engine	Cummins (Rhino)		Komatsu		Volvo		Case	
Engine Make (optional)	Cummins (Rhino)		Komatsu		Volvo		Case	
Engine Model	6BTAA8.3		SAA6D107E-3		D8HGBE4		F4HE9687C	
Engine Type	Water Cooled 4-Cycle Direct Injection 6 CYL		Water Cooled 4-Cycle Direct Injection 6 CYL		Turbocharged Aftercooled w Wet Cylinders		4 Stroke Air to Air Cooled	
Aspiration	Turbocharged and Air to Air Aftercooled		Turbocharged And Air to Air Aftercooled		Turbocharged		Turbocharged	
Number of Cylinders	6		6		6		6	
Bore x Stroke mm (in)	114 x 135	(4.5 x 5.3)	107 x 124	(4.21 x 4.88)	110 x 136	(4.3 x 5.3)	104 x 132	(4.1 x 5.2)
Piston Displacement L (cu. In)	8.3	(506)	6.69	(408)	7.8	(476)	6.7	(409)
Base Horsepower Net kW (hp)	138	(185)	163	(219)	146	(196)	133	(178)
Peak Torque kg-m (ft-lb)	86	(619)	N/P	N/P	N/P	N/P	N/P	N/P
Base Power Torque Rise (%)	43		31		N/P		N/P	
Governor Type	Electronic		Electronic		N/P		N/P	
Fan Type	Hydraulic Driven		N/P		Hydraulically Driven With Opt Auto Reversing		N/P	
Fan Speed Max. (rpm)	1,545		1,500		N/P		N/P	
Fan Speed Min. (rpm)	620		N/P		N/P		N/P	
Fuel System	Direct Injection		N/P		V-ACT		Common Rail	
Lubrication System Method	Full Flow With Integrated Cooler		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	24/70		24/60		24/80		24/90	
Battery (CCA)	850		1,146		1,125		1,010	
Tires	17.5-25-12PR		17.5R25		14R4		17.5R25	
Tires	17.5-25-12PR		17.5R25		14R4		17.5R25	
Work Equipment	17.5-25-12PR		17.5R25		14R4		17.5R25	
Circle Diameter mm (ft)	1,415	(4.6)	1,530	(5.0)	1,626	(5.3)	1,752	(5.7)
Number of Circle Shoes	6		4		3		N/P	
Drawbar Frame (Width x Height) mm (in)	250 x 300	(9.8 x 11.8)	210 x 25	(8.3 x 1)	165 x 165	(9.8 x 11.8)	N/P	(9.8 x 11.8)
Moldboard (Width x Height x Thickness) mm (in)	4,190 x 520 x 19	(165 x 20.5 x 0.75)	3,710 x 645 x 19	(146 x 25 x 0.74)	3,658 x 635 x 22	(144 x 25 x 0.87)	3,962 x 600 x 22.2	(156 x 23.6 x 0.87)
Arc Radius mm (in)	432	(17.0)	329	(13.0)	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)	N/P	N/P
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
Circle Center Shift Right mm (ft)	455	(1.5)	590	(1.9)	749	(2.5)	N/P	N/P
Circle Center Shift Left mm (ft)	455	(1.5)	590	(1.9)	775	(2.5)	N/P	N/P
Moldboard Side Shift Right mm (ft)	1,815	(6.0)	820	(2.7)	673	(2.2)	686	(2.3)
Moldboard Side Shift Left mm (ft)	1,425	(4.7)	820	(2.7)	673	(2.2)	533	(1.7)
Max. Shoulder Reach Outside Rear Tires Frame Straight Right mm (ft)	1,980	(6.5)	2,000	(6.6)	2,010	(6.6)	N/P	N/P
Max. Shoulder Reach Outside Rear Tires Frame Straight Left mm (ft)	1,760	(5.8)	2,000	(6.6)	2,020	(6.6)	N/P	N/P
Max. Lift Above Ground mm (ft)	550	(1.8)	480	(1.6)	445	(1.5)	445	(1.5)
Max. Cutting Depth mm (ft)	815	(2.7)	615	(2.0)	790	(2.6)	711	(2.3)
Max. Blade Angle Right (deg)	90		90		90		90	
Max. Blade Angle Left (deg)	90		90		90		90	
Blade Tip Angle Forward (deg)	46		40		45		47	
Blade Tip Angle Backward (deg)	0		5		6		3	
Hydraulics	Closed Center		Load Sensing Closed Center		Closed center, load sense Proportional demand flow		Closed Center Load Sensing	
Hydraulics Circuit Type	Closed Center		Load Sensing Closed Center		Closed center, load sense Proportional demand flow		Closed Center Load Sensing	
Hydraulic Pump Type	Gear		Variable Displacement Piston Pump		Axial Piston		Variable Displacement	
Pump Output ltr/min (gpm)	205	(54.2)	200	(52.8)	208	(54.9)	187	(49.4)
Relief Valve Setting Mpa (psi)	20	(2,901)	21	(3,046)	21	(3,046)	N/P	N/P
Dimensions	9,140		9,205		9,150		8,534	
Overall Length - Front Tire to Rear Bumper mm (ft)	9,140	(30.0)	9,205	(30.2)	9,150	(30.0)	8,534	(28.0)
Overall Height mm (ft)	3,400	(11.2)	3,200	(10.5)	3,225	(10.6)	3,150	(10.3)
Gauge mm (ft)	2,120	(7.0)	2,060	(6.8)	2,076	(6.8)	2,106	(6.9)
Width of Tires mm (ft)	2,600	(8.5)	2,485	(8.2)	2,717	(8.9)	2,452	(8.0)
Width of Ripper Beam mm (ft)	2,300	(7.5)	2,305	(7.6)	N/P	N/P	N/P	N/P
Center of Front Axle to Counterweight mm (ft)	1,015	(3.3)	927	(3.0)	N/P	N/P	665	(2.2)
Cutting Edge to Center of Front Axle mm (ft)	2,575	(8.4)	2,580	(8.5)	2,650	(8.7)	2,562	(8.4)
Wheelbase, Front wheel to Center of Tandem mm (ft)	6,150	(20.2)	6,480	(21.3)	6,280	(20.6)	6,279	(20.6)
Tandem Wheelbase mm (ft)	1,530	(5.0)	1,525	(5.0)	N/P	N/P	1,594	(5.2)
Center of Tandem to Back of Ripper mm (ft)	2,725	(8.9)	2,780	(9.1)	N/P	N/P	2,028	(6.7)
Weight	15,200		16,940		16,980		15,330	
Operating Weight Total kg (lb)	15,200	(33,510)	16,940	(37,346)	16,980	(37,434)	15,330	(33,797)
Weight on Front Axle kg (lb)	4,560	(10,053)	4,205	(9,270)	5,100	(11,244)	4,600	(10,141)
Weight on Rear Axle kg (lb)	10,640	(23,457)	11,290	(24,890)	12,450	(27,448)	10,730	(23,656)
Maintenance	285		390		400		341	
Refill Capacity - Fuel L (gal)	285	(75.3)	390	(103.0)	400	(105.7)	341	(90.1)
Refill Capacity - Cooling L (gal)	50	(13.2)	30	(7.9)	31	(8.2)	40	(10.6)
Refill Capacity - Engine Oil L (gal)	27	(7.1)	N/P	N/P	22	(5.7)	19	(4.9)
Refill Capacity - Transmission L (gal)	30	(7.9)	45	(11.9)	61	(16.1)	25	(6.6)
Refill Capacity - Final Drive L (gal)	N/P	N/P	17	(4.5)	23	(6.0)	44	(11.6)
Refill Capacity - Tandem Housing Each L (gal)	84	(22.2)	57	(15.1)	134	(35.4)	60	(15.9)
Refill Capacity - Hydraulic System L (gal)	95	(25.1)	69	(18.2)	91	(24.0)	90	(23.8)
Refill Capacity - Circle Reverse L (gal)	N/P	N/P	7	(1.8)	N/P	N/P	2.8	(0.7)

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