

RM166





The frame, drawbar forged steel circle are designed for durability in heavy duty applications. The strong frame drawbar uses a durable material. The top surface of the circle teeth are hardened to reduce wear and ensure component reliability. A large tapered roller bearing at the lower pivot carries loads evenly and smoothly.



- 1. Angled cab doors, big rear window assure excellent visibility to the work area.
- 2. Easy-to-read, high-visibility gauges and warning lamps keep the operator aware of critical system information.
- 3. The Rhino Comfort seat and arm/wrist rests are fully adjustable for improved comfort and productivity.

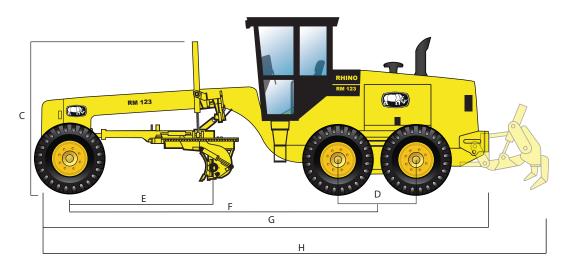
ENGINE		
Engine Make / Engine Model	Rhino RHCB220	
Emissions (optional)	Tier 2 (Tier 3, Tier 4)	
Net Power kW (Hp) @2,200 rpm	164(220)	
Displacement L (cu. In)	6,7(409)	
Net Peak Torque Nm (lb-ft) @1,500	Orpm 800(590)	
Net Torque Rise (%)	12	
Aspiration	Turbocharged charged air cooler	
Lubrication	Full-flow spin-on filter	
Air Cleaner	Under-hood, dual element dry	
ELECTRICAL		
Volts	24	
Alternator Amps	70	
POWERTRAIN	AWD	
Transmission	Hydrodynamic power-shift with separate filtration	
Speed Range - Forward	6	
Speed Range - Reverse	3	
Max. Travel Speeds with 17.5-25 T	ires	
Max. Travel Speed - fwd. kph (mpl	h) 47(29)	
Max. Travel Speed - rev. kph (mph) 32(20)		
Front Axle		
Oscilation (Total) (°)	32 (16 each side)	
Wheel Turning Angle (°)	49	
Differentials	Spiral bevel gear with automatic differential lock	
Steering Fully hydr	raulic power frame articulation for increased productivity and maneuverability	
Turning Radius mm (ft)	7,300(24.0)	
Articulation (both right and left) (°)		
Brakes	Tandem configuration with sprocket and chain sealed in oil	
Service Brakes	Foot pedal activation, hydraulically operated drums on all 4 tandem wheels	
Parking Brake	Hydraulically actuated drums effective on all 4 tandem wheels	

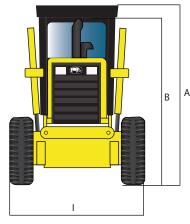
BLADE FUNCTION		
Function F	ully hydraulic, industry standard lever placem	nent of blade-function controls,
	adjustable angle for adde	d comfortability to the operator
Blade Lift Above Ground mm (in)		450(17.7)
Blade Side Shift Right mm (in)		1,920(75.6)
Blade Side Shift Left mm (in)		1,520(59.8)
Pitch at Ground Line		
Forward (°)		46
Back (°)		0
ELECTRICAL		
Voltage		24
Number of Batteries		2
Battery Capacity		CCA
Reserve Capacity		min
Amp-Hour Rating		12 Amp-hour
Alternator Rating		70 Amp
Lights 6	front lights and 2 rear lights, one orange rotat	ing light on the back of the cab
MAINFREAME		
Туре		x construction
Thickness mm (in)		100(3.9)
CIRCLE		*
Туре	Welded structure, heat treated for extra s	ed for flatness
Circle Diameter mm (in)		1,415(55.7)
Rotation (°)		360
Drive	н	lydraulic motor and worm gear
Circle Side Shift (right and left) mm	(in)	455(17.9)
HYDRAULIC SYSTEM		
Pump Type		Gear pump
Pump Flow L/min (gum)		205(54)
System Pressure Mpa (psi)		17(2.466)

45(2.7)

Pump Displacement cm3 (<u>cu.in</u>)

MOLDBOARD	
Moldboard	High strength, heat treated high-carbon steel and reversible end bits,
D (6)	blade side shift system includes replaceable wear inserts
Base Length mm (ft)	4,320(14.2)
Height mm (in) measured from edge in	
Thickness mm (in)	22(0.9)
CUTTING EDGE	
Heat Treated Carbon Steel	
Thickness mm (in)	18(0.7)
Width mm (in)	155(6.1)
REAR RIPPER	
Parallelogram linkage	
Width of Cut mm (ft)	2,300(7.5)
Number of Shanks	5
Lift Above Ground mm (in)	350(13.8)
Max. Penetration mm (in)	460(18.1)
Shank Size mm (in)	63x293(2.5x11.5)
TIRES	
Туре	17.5R25 tires on 356mm (14in) rim
Overall Width mm (in)	2,600(8.5)
Ground Clearance (front axle) mm (in)	610(24.0)
REFILL CAPACITIES L (gal)	
Fuel Tank	360(95)
Cooling System	60(16)
Engine Oil	27(7)
Transmission Fluid	28(7)
Differentials	90(24)
Hydraulic Tank	100(26)
Brakes	0,8(0.2)
OPERATING WEIGHTS	
Front kg (lb)	5,120(11.288)
Rear kg (lb)	11,480(25.309)
Total kg (lb)	16,600(36.597)





MACHINE DIMENSIONS	
A. Height to Top of Cab mm (ft)	3,400(11.2)
B. Height to Top of Exhaust mm (ft)	2,860(9.4)
C. Height to Top of Blade-Lift Cylinders mm (ft)	2,780(9.1)
D. Tandem Axle Spacing mm (ft)	1,530(5.0)
E. Blade Base mm (ft)	2,575(8.4)
F. Wheelbase mm (ft)	6,150(20.2)
G. Overall Length mm (ft)	8,990(29.5)
H. Overall Length with Ripper mm (ft)	9,895(32.5)
I. Overall Width with 17.5R15 Tires mm (ft)	2,600(8.5)
OPTIONS	

Rhino Motor Graders can come standard with rear ripper. They can come with front scarifier, front dozer blade, mid-body scarifier, and rear scarifier. As well as many other options depending on client requirements.

Available Tier 3 and Tier 4 Final engines.

Grader operating information is based on machine with identified linkage and standard equipment, standard tires, full fuel tank, and 79-kg (175 lb.) operator. This information is affected by changes in tires, ballast, and different attachments.