





MOTORGRADER

## Unprecedented precision and ease of operation.



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.



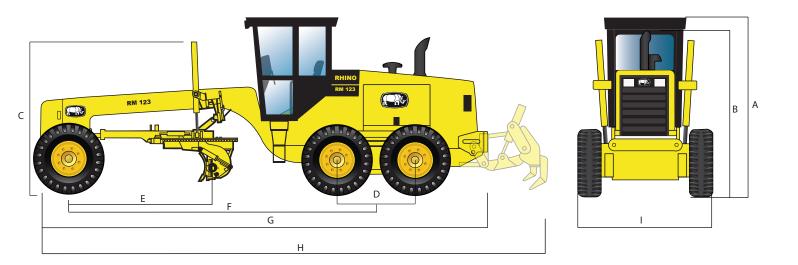
- 1. Angled cab doors, big rear window assure excellent visibility to the work area.
- 2. Easy-to-read, high-visibility gauges and warning lamps keep the operator aware of critical system information.
- 3. The Rhino Comfort seat and arm/wrist rests are fully adjustable for improved comfort and productivity.

## ENGINE

ENGINE				
Engine Make / Engine	Iodel Cummins 6BTAA8.3 or Rh	ino		
Emissions (optional)	Tier 2 (Tier 3, Tie	r 4)		
Net Power kW (Hp) @2	200 rpm 138(1	85)		
Displacement L (cu. In	8,3(5	i06)		
Net Peak Torque Nm (	p-ft) @1,500rpm 856(6	31)		
Net Torque Rise (%)		43		
Aspiration	Turbocharg	jed		
Lubrication	Full-flow spin-on fi	lter		
Air Cleaner	Under-hood, dual element	dry		
ELECTRICAL				
Volts		24		
Alternator Amps		70		
POWERTRAIN				
Transmission	Fixed shaft power stage, single stage, single phase three element torque conver	ter		
Speed Range - Forward 6				
Speed Range - Reverse 3				
Max. Travel Speeds with 16/70-20 Tires				
Max. Travel Speed - fwd. kph (mph) 49(31)				
Max. Travel Speed - rev. kph (mph) 30(19)				
Front Axle				
Oscilation (Total) (°)	32 (16 each si	de)		
Wheel Turning Angle (		45		
Differentials	Spiral bevel gear with automatic differential l	Spiral bevel gear with automatic differential lock		
Steering	Fully hydraulic power frame articulation for increased productivity and maneuverabi	lity		
Turning Radius mm (ft	urning Radius mm (ft) 7,300(24.0)			
Articulation (both right and left) (°)26				
Brakes	Tandem configuration with sprocket and chain sealed in	oil		
Service Brakes	Foot pedal activation, hydraulically operated drums on all 4 tandem whe	Foot pedal activation, hydraulically operated drums on all 4 tandem wheels		
Parking Brake	Hydraulically actuated drums effective on all 4 tandem whe	Hydraulically actuated drums effective on all 4 tandem wheels		

BLADE FUNCTION			
Function	Fully hydraulic, industry standard lever placem	ent of blade-f	unction controls,
	adjustable angle for added	l comfortabilit	y to the operator
Blade Lift Above Ground mm (in)			550(21.7)
Blade Side Shift Right mm (in)			1,815(71.5)
Blade Side Shift Left mm (in)			1,425(56.1)
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	5 front lights and 2 rear lights, one orange rotati	ng light on the	e back of the cab
MAINFREAME			
Туре			ox construction
Thickness mm (in)		*	100(3.9)
CIRCLE		X	
Туре	Welded structure, heat treated for extra s	1	ed for flatness
Circle Diameter mm (in)		*	1,415(55.7)
Rotation (°)			360
Drive	Hy	draulic moto	r and worm gear
Circle Side Shift (right and left) mn	n (in)		455(17.9)
HYDRAULIC SYSTEM			
Ритр Туре		Gear pump, open type	
Pump Flow L/min (gum)			205(54)
System Pressure Mpa (psi)			20(2.901)
Pump Displacement cm3 ( <u>cu.in</u> )			45(2.7)

MOLDBOARD	
Moldboard	High strength, heat treated high-carbon steel and reversible end bits,
	blade side shift system includes replaceable wear inserts
Base Length mm (ft)	4,270(14.0)
Height mm (in) measured from edge in	cluding cutting edge 520(20.5)
Thickness mm (in)	18(0.7)
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)	570(22.4)
REFILL CAPACITIES L (gal)	
Fuel Tank	285(75)
Cooling System	50(13)
Engine Oil	27(7)
Transmission Fluid	30(8)
Differentials	84(22)
Hydraulic Tank	95(25)
Brakes	0,8(0.2)
OPERATING WEIGHTS	
Front kg (lb)	4,560(10.053)
Rear kg (lb)	10,640(23.457)
Total kg (lb)	15,200(33.510)



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)	9,140(30.0)
H. Overall Length with Ripper mm (ft)	10,045(33.0)
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.