



Bulldozer		Rhino RD50		Komatsu D275AX-5		Caterpillar D9T	
General							
Brand	Rhino		Komatsu		Caterpillar		
Model	RD50		D275AX-5		D9T		
Blade Type	SEMI-U		Straight Tilt		9SU		
Net Horsepower kW (hp)	308	(413)	335	(449)	325	(436)	
Operating Weight, as Equipped kg (lb)	49,500	(109,129)	51,530	(113,604)	48,361	(106,618)	
Engine							
Engine Make (optional)	Cummins (Rhino)		Komatsu		CATERPILLAR		
Engine Model	KTA19-C525		SAA6D140E-5		C18 Acert		
Engine Type	4 Cycle, Water - Cooled, Direct Injection		4 Cycle, Water - Cooled, Direct Injection		4 Cycle, Water - Cooled, Direct Injection		
Aspiration	Turbocharged, Air-to-Air After Cooled		Turbocharged, Air-to-Air After Cooled		Turbocharged, Air-to-Air After Cooled		
Number of Cylinders	6		6		6		
Bore x Stroke mm (in)	169 x 169	(5.5 x 6)	140 x 165	(5.51 x 5.60)	145 x 183	(5.7 x 7.2)	
Piston Displacement L (cu. In)	19	(1,159)	15.0	(915)	18	(1,098)	
Fan Drive for Radiator Cooling	Dry Horizontal Type with Precleaner		Hydraulic		Belt Driven		
Fuel System	Direct Injection		Direct Injection		Direct Injection		
Drivetrain							
Drivetrain Type	TORQUE CONV/ PLANETARY GEAR		N/P		Power Shift		
Number of Speeds (Fwd/Rev)	3F/3R		3F/3R		3F/3R		
Max. Speed Forward Kph (mph)	12	(7)	11	(7)	12	(7)	
Max. Speed Reverse Kph (mph)	15	(9)	15	(9)	14	(9)	
Steering Control	HSSR		N/P		Differential Steering		
Minimum Turning Radius m (ft)	4	(13.1)	N/P	N/P	N/P	N/P	
Final Drives	Double Reduction		N/P		Single Reduction		
Sprockets	Segments		N/P		Segments		
Undercarriage							
Undercarriage Suspension Type	Oscillating		Oscillating		Oscillating		
Track Roller Frame	Cylindrical		Monocoque		Cylindrical		
Track Roller Type	Sealed and Lubricated		PLUS Long Life		Sealed and Lubricated		
Number of Track Rollers	7		7		8		
Number of Carrier Rollers	2		2		N/A		
Type of Shoes	Single Grouser		N/P		Single Grouser		
Number of Shoes per Side	40		39		43		
Grouser Height mm (in)	85	(3)	88	(3)	84	(3)	
Ground Contact Area cm ² (in ²)	41,785	(6,477)	42,456	(6,581)	42,400	(6,572)	
Ground Pressure Kpa (psi)	15	(2,176)	13	(1,885)	N/A	N/A	
Track Gauge mm (ft)	2,260	(7.4)	N/P	N/P	2,250	(7.4)	
Length of Track on Ground mm (ft)	3,425	(11.2)	N/P	N/P	3,474	(11.4)	
Hydraulics							
Hydraulic Type	Load Sensing		Closed-Center Load-Sensing		Load Sensing		
Hydraulic Pump Type	Piston		Piston		Piston		
Hydraulic Pump Capacity L/min (gpm)	264	(70)	N/P	N/P	226	(60)	
Blade Lift Cylinder Number	2		2		2		
Blade Tilt Cylinder Number	1		1		1		
Blade Angle Cylinder Number	0		2		0		
Relief Valve Setting Mpa (psi)	27	(3,916)	N/P	N/P	26	(3,771)	
Dozer Blade							
Blade Type	SEMI-U		PAT/Straigh		9SU		
Dozer Blade Capacity m ³ (cu. Yd)	15.0	(19.6)	15	(19.6)	14	(18.3)	
Blade Width x Height mm (ft)	4,314 x 1,841	(14.2 x 6)	4,440 x 2,125	(14.7 x 7)	4,310 x 1,934	(14.1 x 6.3)	
Dimensions							
Overall Length mm (ft)	9,716	(31.9)	8,995	(29.5)	8,476	N/A	
Overall Height mm (ft)	3,928	(12.9)	3,990	(13.1)	3,999	(13.1)	
Height to Top of Exhaust Stack mm (ft)	3,720	(12.2)	3,915	(12.8)	3,980	(13.1)	
Overall Width (Shipping) mm (ft)	2,870	(9.4)	2,260	(7.4)	2,865	(9.4)	
Overall Track Width mm (ft)	2,870	(9.4)	N/P	N/P	N/P	N/P	
Center of Idler to Center of Sprocket mm (ft)	3,425	(11.2)	N/A	N/A	3,474	(11.4)	
Maintenance							
Refill Capacity - Coolant L (gal)	130	(34.3)	100	(26.4)	98	(25.9)	
Refill Capacity - Fuel Tank L (gal)	865	(229)	840	(222)	821	(217)	
Refill Capacity - Engine L (gal)	50	(13.2)	52	(13.7)	38	(10.0)	
Refill Capacity - Hydraulics L (gal)	170	(44.9)	90	(23.8)	89	(23.5)	
Refill Capacity - Final Drives, Each L (gal)	70	(18.5)	40	(10.6)	15	(4.0)	
Refill Capacity - Power Train L (gal)	190	(50.2)	N/A	N/A	164	(43.3)	
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