

Technical sheet :

1650RT



 **MANITOU**
HANDLING YOUR WORLD

Capacities		Metric	Imperial
Operating Weight		3638 kg	8020 lb
Unladen weight		3638 kg	8020 lb
Operating Capacity at 35% Tipping Load		748 kg	1649 lb
Operating Capacity At 50% Tipping Load		1069 kg	2357 lb
Tipping capacity		2139 kg	4716 lb
Weight and dimensions			
Overall Operating Height - Fully Raised	h27	4008 mm	158 in
Height to Hinge Pin – Fully Raised	h28	3038 mm	120 in
Dump reach - Full height	r6	641 mm	25 in
Dump angle at full height	a5	39 °	39 °
Dump Height - Fully Raised	h29	2329 mm	92 in
Maximum Rollback Angle - Fully Raised	a4	98 °	98 °
Overall Height to top of ROPS	h17	1969 mm	78 in
Overall length with bucket	l16	3205 mm	126 in
Overall Length without Bucket	l1	2393 mm	94 in
Specified Height	h31	1638 mm	64 in
Reach at Specified Height	r4	559 mm	22 in
Dump angle at specified height	a17	73 °	73 °
Maximum Rollback Angle at Ground	a13	28 °	28 °
Carry Position	d5	198 mm	8 in
Maximum Rollback Angle at Carry Position	a14	28 °	28 °
Digging Position	h32	53 mm	2 in
Angle of Departure with STD Counterweight		28 °	28 °
Ground clearance	m4	185 mm	7 in
Track gauge	b10	1356 mm	53 in
Track Shoe Width	b20	320 mm	13 in
Crawler base	y2	1265 mm	50 in
Overall width less bucket	b1	1676 mm	66 in
Bucket Width	e1	1676 mm	66 in
Clearance Radius - Front with Bucket	b18	1979 mm	78 in
Clearance Circle - Rear	wa1	1440 mm	57 in
Maximum rollback at specified height		62 °	62 °
Angle of Approach	a3	90 °	90 °
Grouser Height		25 mm	0.98 in
Track Type / Track Rollers / Roller Type		Rubber / 3 / Steel	Rubber / 3 / Steel
Performances			
Ground Speed - Single Speed		10.50 km/h	7 mph
Ground Speed - Two Speed		16.10 km/h	10 mph
Drawbar Pull/Tractive Effort		4345 kg	9579 lb
Bucket Breakout - Tilt Cylinder		1919 kg	4231 lb
Bucket Breakout - Lift Cylinder		2295 kg	5060 lb
Engine			
Engine brand		Yanmar	Yanmar
Engine model		4TNV98C-NMS2	4TNV98C-NMS2
Motor Type		Radial Piston	Radial Piston
Gross Power / Power		51.70 kW @ 2500 rpm	51.70 kW @ 2500 rpm
Net Power / Power		51 kW / 2500 rpm	51 kW / 2500 rpm
Max. torque		241 Nm	178 ft/lbs
I.C. Engine power rating		69.30 Hp	69.30 Hp
Battery voltage		12 V	12 V
Cold Cranking Amps at Temperature (CCA)		950 A	950 A
Alternator - Voltage / Ampere		12 V / 100 A	12 V / 100 A
Hydraulics			
Standard flow - Auxiliary hydraulics		71 l/min	19 US gpm
Tank capacities			
Oil Pan Capacity		9 l	2 US gal
Hydraulic tank capacity		39 l	10 US gal
Fuel tank		62.50 l	17 US gal
Coolant system capacity		12.90 l	3 US gal
Displacement / Number of cylinders		3.30 l / 4	0.87 US gal / 4
Miscellaneous			
Ground Pressure		0.45 bar	7 PSI

1650RT - Dimensional drawing



Equipment

Lifting function	
All-Tach® Attachment Mounting System	Standard
Auxiliary Hydraulics	Standard
Electronic Attachment Control - 14-Pin Connector	Optional
High-Flow Auxiliary Hydraulics	Optional
IdealTrax™ Automatic Track Tensioning System	Standard
Power-A-Tach® Attachment Mounting System	Optional
Motorization/Power	
Combination Radiator & Hydraulic Oil Cooler	Standard
Dual-Element Air Cleaner with Indicator	Standard
Engine Auto-Shutdown System	Standard
Glowplugs Starts Assist	Standard
Servo-Controlled Hydrostatic Drive	Standard
Two-Speed Hydrostatic Drive System	Standard
Operator station	
Air suspension seat	Optional
Foot Throttle	Standard
Full-Suspension Seat	Standard
Multi-Function Display Screen	Standard
Pressurized Cab Enclosure with A/C	Optional
Rearview Camera	Optional
ROPS/FOPS Level II Overhead Guard	Standard
Sliding Side Windows	Standard
Swing-out Cab Door	Standard
Other options	
Selectable Self-Leveling Hydraulic Lift Action 4	Optional
Pneumatics	
Rubber Track Undercarriage System	Standard
Single Flange Front/Dual Flange Rear Idlers	Standard
Secondary functions	
Counterweight	Standard
Dedicated Undercarriage	Standard
Security	
Anti-Vandalism Lock Provisions	Standard
Back-Up Alarm	Optional
Easy Manager	Standard
Engine Alert System with Error Display	Standard
Mechanical Lift Cylinder Lock	Standard



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