

Technical sheet :

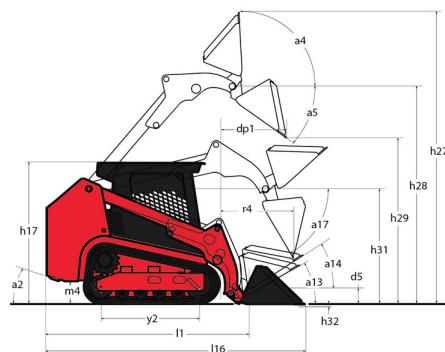
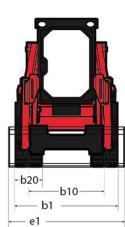
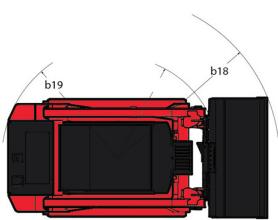
# 1650RT



 **MANITOU**  
HANDLING YOUR WORLD

Capacities		Metric	
Operating Weight		3638 kg	
Unladen weight		3638 kg	
Operating Capacity at 35% Tipping Load		748 kg	
Operating Capacity At 50% Tipping Load		1069 kg	
Tipping capacity		2139 kg	
Weight and dimensions			
Overall Operating Height - Fully Raised	h27	4008 mm	
Height to Hinge Pin - Fully Raised	h28	3038 mm	
Dump reach - Full height	r6	641 mm	
Dump angle at full height	a5	39 °	
Dump Height - Fully Raised	h29	2329 mm	
Maximum Rollback Angle - Fully Raised	a4	98 °	
Overall Height to top of ROPS	h17	1969 mm	
Overall length with bucket	l16	3205 mm	
Overall Length without Bucket	l1	2393 mm	
Specified Height	h31	1638 mm	
Reach at Specified Height	r4	559 mm	
Dump angle at specified height	a17	73 °	
Carry Position	d5	198 mm	
Maximum Rollback Angle at Carry Position	a14	28 °	
Digging Position	h32	53 mm	
Angle of Departure with STD Counterweight		28 °	
Ground clearance	m4	185 mm	
Track gauge	b10	1356 mm	
Track Shoe Width	b20	320 mm	
Crawler base	y2	1265 mm	
Overall width less bucket	b1	1753 mm	
Bucket Width	e1	1676 mm	
Clearance Radius - Front with Bucket	b18	1979 mm	
Angle of Approach	a3	90 °	
Grouser Height		25 mm	
Track Type / Track Rollers / Roller Type		Rubber / 3 / Steel	
Performances			
Ground Speed - Single Speed		10.50 km/h	
Ground Speed - Two Speed		16.10 km/h	
Drawbar Pull/Tractive Effort		4345 kg	
Bucket Breakout - Tilt Cylinder		1919 kg	
Bucket Breakout - Lift Cylinder		2295 kg	
Engine			
Engine brand		Yanmar	
Engine model		4TNV98C-NMS2	
Motor Type		Radial Piston	
Engine power (Hp)		69.30 Hp	
Engine power (kW)		51 kW	
Max. torque		241 Nm	
Battery voltage		12 V	
Cold Cranking Amps at Temperature (CCA)		950 A	
Alternator - Voltage / Ampere		12 V / 100 A	
Hydraulics			
Standard flow - Auxiliary hydraulics		71 l/min	
Tank capacities			
Oil Pan Capacity		9 l	
Hydraulic tank capacity		39 l	
Fuel		62.50 l	
Cooling liquid		12.90 l	
Displacement / Number of cylinders		3.30 l / 4	
Miscellaneous			
Ground Pressure		0.45 bar	

## 1650RT - Dimensional drawing



# Equipment

<b>Lifting function</b>		
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
<b>Motorization/Power</b>		
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
<b>Operator station</b>		
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
<b>Other options</b>		
Selectable Self-Leveling Hydraulic Lift Action 4		Optional
<b>Pneumatics</b>		
Rubber Track Undercarriage System		Standard
Single Flange Front/Dual Flange Rear Idlers		Standard
<b>Secondary functions</b>		
Counterweight		Standard
Dedicated Undercarriage		Standard
<b>Security</b>		
Anti-Vandalism Lock Provisions		Standard
Back-Up Alarm		Optional
Easy Manager		Standard
Engine Alert System with Error Display		Standard
Mechanical Lift Cylinder Lock		Standard



# **MANITOU** HANDLING YOUR WORLD

## Head Office

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

[www.manitou.com](http://www.manitou.com)



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes