Technical sheet:

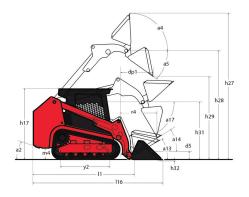
## 1650 RT

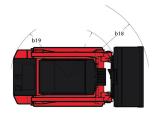




	1650 RT Created on Oc	tober 14, 2022 at 4:19:10 p.m. UT
Capacities		Metric
Operating Weight		3638 kg
Operating Capacity at 35% Tipping Load		748 kg
Operating Capacity At 50% Tipping Load		1069 kg
Tipping capacity		2139 kg
Weight and dimensions		,
Overall Operating Height - Fully Raised	h27	4008 mm
Height to Hinge Pin – Fully Raised	h28	3038 mm
Reach - Fully Raised	dp1	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	116	3205 mm
Overall Length without Bucket	I1	2393 mm
Specified Height	h31	1638 mm
Reach at Specified Height	r4	559 mm
Dump angle at specified height	a17	73 °
Maximum Rollback Angle at Ground	a13	28 °
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	1676 mm
Bucket Width	e1	1676 mm
Clearance Radius - Front with Bucket	b18	1979 mm
Clearance Circle - Rear	wa1	1440 mm
Maximum rollback at specified height		62 °
Angle of Approach	a3	90 °
Grouser Height	uo	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
Gross Power (kW) / Power		51.70 kW @ 2500 rpm
Net Power (kW) / Power		51 kW / 2500 rpm
Max. torque		241 Nm
Battery		12 V
Cold Cranking Amps at Temperature (CCA)		950 A
Alternator - Voltage / Ampere		12 V / 100 A
Hydraulics		
Standard flow - Auxiliary hydraulics		70.99 l/min
Tank capacities		
Oil Pan Capacity		9
Hydraulic tank capacity		39 I
Fuel tank		62.50 I
Coolant system capacity		12.90 I
Displacement / Number of cylinders		3.30   / 4
Miscellaneous		
Ground Pressure		0.45 bar

## 1650 RT - Dimensional drawing







## **Equipment**

All-Tach® Attachment Mounting System	Lifting function	
Electronic Attachment Control - 14-Pin Connector         Optional           High-Flow Auxiliary Hydraulics         Optional           IdealTrax* Automatic Track Tensioning System         Optional           Motorization/Power         Optional           Combination Radiator & Hydraulic Oil Cooler         Standard           Dual-Element Air Cleaner with Indicator         Standard           Engine Autor Shutdown System         Standard           Glowplugs Starts Assist         Standard           Servo-Controlled Hydrostatic Drive         Standard           Two-Speed Hydrostatic Drive System         Standard           Operator station         Standard           Foot Throttle         Standard           Full-Suspension Seat         Optional           Multi-Function Display Screen         Standard           Pressurized Cab Enclosure with A/C         Optional           Reaview Camera         Optional           ROPS/FOPS Level II Overhead Guard         Standard           Skiding Side Windows         Standard           Skilder Side Windows         Standard           Skelectable Self-Leveling Hydraulic Lift Action 4         Optional           Theumatics         Standard           Skelectable Self-Leveling Hydraulic Lift Action 4         Standard	All-Tach® Attachment Mounting System	Standard
High-Flow Auxiliary Hydraulics         Optional           IdealTrax "Automatic Track Tensioning System         Standard           Power-A-Tach® Attachment Mounting System         Optional           Motorization/Power         Standard           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         Standard           Foot Throttle         Standard           Foul Tructle Drive System         Optional           Foul Tructle Drive System         Standard           Hull-Suspension Seat         Optional           Foul Tructle Drive System         Standard           Plessurized Cab Enclosure with A/C         Optional           Reaview Camera         Optional           ROPS/FOPS Level III Overhead Guard         Standard           Skiding Side Windows         Standard           Skider Side Windows         Standard           Skelectale Self-Leveling Hydraulic Lift Action 4         Optional           Fneumatics </td <td>Auxiliary Hydraulics</td> <td>Standard</td>	Auxiliary Hydraulics	Standard
IdealTrax** Automatic Track Tensioning System         Standard           Power-A Tach® Attachment Mounting System         Optional           Motorization/Power         Standard           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         U           Air suspension seat         Optional           Foot Throttle         Standard           Full-Suspension Seat         Standard           Multi-Function Display Screen         Standard           Pressurized Cab Enclosure with A/C         Optional           Reaview Camera         Optional           ROPS/FOPS Level II Overhead Guard         Standard           Stiding Side Windows         Standard           Swing-out Cab Door         Standard           Other Options         Standard           Fueumatics         Standard           Rubber Track Undercarriage System         Standard           Secondary functions         Standard	Electronic Attachment Control - 14-Pin Connector	Optional
Power-A-Tach® Attachment Mounting System         Optional           Motorization/Power         Combination Radiator & Hydraulic Oil Cooler         Standard           Combination Radiator & Hydraulic Oil Cooler         Standard           Dual-Flement 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         White System Seat           Foot Throttle         Standard           Foul Type System Seat         Optional           Foul Type System Standard         Standard           Full-Suspension Seat         Optional           Full-Suspension Seat         Optional           Full-Suspension Seat         Optional           Full-Suspension Seat         Optional           Reariew Camera         Optional           Reariew Camera         Optional           ROPS/FOPS Level II Overhead Guard         Standard           Stidings Side Windows         Standard           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Rubber Track U	High-Flow Auxiliary Hydraulics	Optional
Motorization/Power       Standard         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       Optional         Foot Throttle       Standard         Foot Throttle       Standard         Full-Suspension Seat       Standard         Multi-Function Display Screen       Standard         Freesurized Cab Enclosure with A/C       Optional         Rearview Gamera       Optional         ROPS/FOPS Level II Overhead Guard       Standard         Sliding Side Windows       Standard         Suliding Side Windows       Standard         Selectable Self-Leveling Hydraulic Lift Action 4       Optional         Pneumatics       Standard         Rubber Track Undercarriage System       Standard         Single Flange Front/Dual Flange Rear Idlers       Standard         Secondary functions       Standard         Counterweight       Standard         Dedicated Undercarriage       Standard <td>IdealTrax™ Automatic Track Tensioning System</td> <td>Standard</td>	IdealTrax™ Automatic Track Tensioning System	Standard
Combination Radiator & Hydraulic Oil Cooler       Standard         Dual-Element Air Cleaner with Indicator       Standard         Engine Auto-Shutdown System       Standard         Glowplugs Starts Assist       Standard         Sevo-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         Reaview Camera       Optional         ROPS/FOPS Level II Overhead Guard       Standard         Stiding Side Windows       Standard         Sving-out Cab Door       Standard         Other options       Standard         Selectable Self-Leveling Hydraulic Lift Action 4       Optional         Pneumatics       Standard         Single Flange Front/Dual Flange Rear Idlers       Standard         Secondary functions       Standard         Counterweight       Standard         Dedicated Undercarriage       Standard         Security       Standard         Anti-Vandalism Lock	Power-A-Tach® Attachment Mounting System	Optional
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         Optional           Air suspension seat         Optional           Foot Throttle         Standard           Full-Suspension Seat         Standard           Multi-Function Display Screen         Standard           Pressurized Cab Enclosure with A/C         Optional           Reaview Camera         Optional           Revolve Camera         Optional           Revolve Camera         Optional           RoPS/FOPS Level II Overhead Guard         Standard           Sliding Side Windows         Standard           Swing-out Cab Door         Standard           Other Options         Optional           Rebectable Self-Leveling Hydraulic Lift Action 4         Optional           Prewundtos         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage <td>Motorization/Power</td> <td></td>	Motorization/Power	
Engine Auto-Shutdown System         Standard           Glowplugs Starts Assist         Standard           Servo-Controlled Hydrostatic Drive         Standard           Two-Speed Hydrostatic Drive System         Standard           Operator station         Optional           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           Stiding Side Windows         Standard           Stiding Side Windows         Standard           William State Windows         Standard           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm	Combination Radiator & Hydraulic Oil Cooler	Standard
Glowplugs Starts Assist         Standard           Servo-Controlled Hydrostatic Drive         Standard           Two-Speed Hydrostatic Drive System         Standard           Operator station         Standard           Ali 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         Optional           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Preumatics         Standard           Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Back-Up Alarm         Optional           Easy Manager         Standard	Dual-Element Air Cleaner with Indicator	Standard
Servo-Controlled Hydrostatic Drive     Standard       Two-Speed Hydrostatic Drive System     Standard       Operator station     Universal Standard       Air suspension seat     Optional       Foot Throttle     Standard       Full-Suspension Seat     Standard       Multi-Function Display Screen     Standard       Pressurized Cab Enclosure with A/C     Optional       Reaview Camera     Optional       ROPS/FOPS Level II Overhead Guard     Standard       Sliding Side Windows     Standard       Suling Side Windows     Standard       Other options     Standard       Selectable Self-Leveling Hydraulic Lift Action 4     Optional       Preumatics     Standard       Rubber Track Undercarriage System     Standard       Single Flange Front/Dual Flange Rear Idlers     Standard       Secondary functions     Standard       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	Engine Auto-Shutdown System	Standard
Two-Speed Hydrostatic Drive SystemStandardOperator stationImage: Content of the Content of StandardFoot ThrottleStandardFull-Suspension SeatStandardMulti-Function Display ScreenStandardPressurized Cab Enclosure with A/COptionalRearview CameraOptionalROPS/FOPS Level II Overhead GuardStandardSliding Side WindowsStandardSwing-out Cab DoorStandardOther optionsStandardSelectable Self-Leveling Hydraulic Lift Action 4OptionalPneumaticsStandardSubber Track Undercarriage SystemStandardSingle Flange Front/Dual Flange Rear IdlersStandardSecondary functionsStandardCounterweightStandardDedicated UndercarriageStandardSecurityStandardAnti-Vandalism Lock ProvisionsStandardBack-Up AlarmOptionalEasy ManagerStandardEngine Alert System with Error DisplayStandard	Glowplugs Starts Assist	Standard
Operator station         Image: Content of the co	Servo-Controlled Hydrostatic Drive	Standard
Air suspension seat         Optional           Foot Throttle         Standard           Full-Suspension Seat         Standard           Multi-Function Display Screen         Standard           Pressurized Cab Enclosure with A/C         Optional           Reaview Camera         Optional           ROPS/FOPS Level II Overhead Guard         Standard           Sliding Side Windows         Standard           Swing-out Cab Door         Standard           Other options         Under options           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Subper Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Two-Speed Hydrostatic Drive System	Standard
Foot Throttle         Standard           Full-Suspension Seat         Standard           Multi-Function Display Screen         Standard           Pressurized Cab Enclosure with A/C         Optional           Reaview Camera         Optional           ROPS/FOPS Level II Overhead Guard         Standard           Sliding Side Windows         Standard           Swing-out Cab Door         Standard           Other options         U           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Sungle Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Secondary functions         Standard           Secondary functions         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Operator station	
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           Stiding Side Windows         Standard           Swing-out Cab Door         Standard           Other options         U           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Air suspension seat	Optional
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         U           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Foot Throttle	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         U           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Full-Suspension Seat	Standard
Rearview Camera         Optional           ROPS/FOPS Level II Overhead Guard         Standard           Sliding Side Windows         Standard           Swing-out Cab Door         Standard           Other options         U           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           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	Multi-Function Display Screen	Standard
ROPS/FOPS Level II Overhead Guard         Standard           Sliding Side Windows         Standard           Swing-out Cab Door         Standard           Other options         U           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Standard           Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Pressurized Cab Enclosure with A/C	Optional
Sliding Side WindowsStandardSwing-out Cab DoorStandardOther optionsUnit of the control of th	Rearview Camera	Optional
Swing-out Cab Door         Standard           Other options         Commender           Selectable Self-Leveling Hydraulic Lift Action 4         Optional           Pneumatics         Commender           Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Standard           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	ROPS/FOPS Level II Overhead Guard	Standard
Other options       Optional         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	Sliding Side Windows	Standard
Selectable Self-Leveling Hydraulic Lift Action 4     Optional       Pneumatics     Standard       Rubber Track Undercarriage System     Standard       Single Flange Front/Dual Flange Rear Idlers     Standard       Secondary functions     Standard       Counterweight     Standard       Dedicated Undercarriage     Standard       Security     Standard       Anti-Vandalism Lock Provisions     Standard       Back-Up Alarm     Optional       Easy Manager     Standard       Engine Alert System with Error Display     Standard	Swing-out Cab Door	Standard
Pneumatics         Image: Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Image: Track Undercarriage           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Other options	
Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         U           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         U           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Selectable Self-Leveling Hydraulic Lift Action 4	Optional
Single Flange Front/Dual Flange Rear IdlersStandardSecondary functionsStandardCounterweightStandardDedicated UndercarriageStandardSecurityStandardAnti-Vandalism Lock ProvisionsStandardBack-Up AlarmOptionalEasy ManagerStandardEngine Alert System with Error DisplayStandard	Pneumatics	
Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Rubber Track Undercarriage System	Standard
Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Single Flange Front/Dual Flange Rear Idlers	Standard
Dedicated Undercarriage         Standard           Security         Standard           Anti-Vandalism Lock Provisions         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Secondary functions	
Security     Standard       Anti-Vandalism Lock Provisions     Standard       Back-Up Alarm     Optional       Easy Manager     Standard       Engine Alert System with Error Display     Standard	Counterweight	Standard
Anti-Vandalism Lock ProvisionsStandardBack-Up AlarmOptionalEasy ManagerStandardEngine Alert System with Error DisplayStandard	Dedicated Undercarriage	Standard
Back-Up Alarm     Optional       Easy Manager     Standard       Engine Alert System with Error Display     Standard	Security	
Easy Manager Standard Engine Alert System with Error Display Standard	Anti-Vandalism Lock Provisions	Standard
Engine Alert System with Error Display Standard	Back-Up Alarm	Optional
	Easy Manager	Standard
Mechanical Lift Cylinder Lock Standard	Engine Alert System with Error Display	Standard
	Mechanical Lift Cylinder Lock	Standard





## **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



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