Technical sheet:

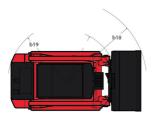
## **1650RT**



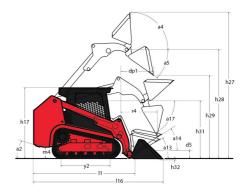


	1650RT Created on 22	December 2024 at 5:23 AM UTC
Capacities		Metric
Operating Weight		3638 kg
Unladen weight		3638 kg
Operating Capacity at 35% Tipping Load		748 kg
Operating Capacity At 50% Tipping Load		1069 kg
Tipping capacity		2139 kg
Weight and dimensions		· 3
Overall Operating Height - Fully Raised	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
	116	3205 mm
Overall length with bucket		2393 mm
Overall Length without Bucket	11	
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	1676 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
Gross Power / Power		51.70 kW @ 2500 rpm
Net Power / Power		51 kW / 2500 rpm
Max. torque		241 Nm
I.C. Engine power rating		69.30 Hp
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		91
Hydraulic tank capacity		39
Fuel tank		62.50
Liquid cooling tank volume		12.90 l
		3.30   / 4
Displacement / Number of cylinders  Miscellaneous		3.301/4
		0.45 hor
Ground Pressure		0.45 bar

## 1650RT - Dimensional drawing







## **Equipment**

Auxiliary Hydraulics Electronic Attachment Control - 14-Pin Connector Optional High-Flow Auxiliary Hydraulics Geal Tiax & automatic track tensioning system Power-A-Tach® Attachment Mounting System Optional Motorization/Power Combination Radiator & Hydraulic Oil Cooler Dual-Element Air Cleaner with Indicator Engine Auto-Shutdown System Standard Glowplugs Starts Assist Standard Steron-Controlled Hydrostatic Drive Two Speed Hydrostatic Drive Standard Operator station Air suspension seat Optional Air suspension seat Optional Foot Throttle Standard Pressurized Cab Enclosure with A/C Rearview Camera Optional SIGNSy/FOPS Level II Overhead Guard Silding Side Windows Standard Scheicable Self-Leveling Hydraulic Lift Action 4 Preumatios Rubber Track Undercarriage System Standard Single Flange Front/Dual Flange Rear Idlers Secondary functions Counterweight Declicated Undercarriage Secontity Anti-Vandalism Lock Provisions Back-Up Alarm Easy Manager Engine Alert System with Error Display Standard Engine Alert System with Error Display	Lifting function	
Electronic Attachment Control - 14-Pin Connector  ligh-Flow Auxiliary Hydraulics  Optional  dealTrax® automatic track tensioning system  Optional  Motorization/Power  Combination Radiator & Hydraulic Oil Cooler  Dual-Element Air Cleaner with Indicator  Standard  Dual-Element Air Cleaner with Indicator  Standard  Silomolugs Starts Assist  Standard  Serov-Controlled Hydrostatic Drive  Standard  Serov-Controlled Hydrostatic Drive  Standard  Derator station  Air suspension seat  Optional  Foot Throttle  Standard  Standard  Standard  Standard  Pressurized Cab Enclosure with A/C  Rearview Camera  ROPS/FOPS Level II Overhead Guard  Siding Side Windows  Standard  Solder Side Self-Leveling Hydraulic Lift Action 4  Pheumatics  Rubber Track Undercarriage System  Standard  Standard  Optional  Pheumatics  Sceondary functions  Counterweight  Dedicated Undercarriage  Standard  Standard  Standard  Standard  Sceondary functions  Counterweight  Dedicated Undercarriage  Standard  Standard  Standard  Standard  Standard  Sceondary functions  Counterweight  Standard  Standard  Standard  Standard  Standard  Sceondary functions  Standard  Sceondary functions  Standard  St	All-Tach® Attachment Mounting System	Standard
High-Flow Auxiliary Hydraulics Optional dealTrax® automatic track tensioning system Standard Power-A-Tach® Attachment Mounting System Optional Motorization/Power Obtional Motorization/Power Standard Dual-Element Air Cleaner with Indicator Standard Dual-Element Air Cleaner with Indicator Standard Engine Auto-Shutdown System Standard Scero-Controlled Hydrostatic Drive Standard Scero-Controlled Hydrostatic Drive Standard Scero-Controlled Hydrostatic Drive Standard Operator station Standard Operator station Standard Operator station Standard Standard Operator station Standard Standard Standard Standard Operator station Standard Operator Standard S	Auxiliary Hydraulics	Standard
dealTrax® automatic track tensioning system Optional Power-A-Tach® Attachment Mounting System Optional Molotzation/Power Combination Radiator & Hydraulic Oil Cooler Standard Dual-Element Air Cleaner with Indicator Engine Auto-Shutdown System Standard Engine Auto-Shutdown System Standard Stervo-Controlled Hydrostatic Drive Standard Stervo-Controlled Hydrostatic Drive Standard Operator station Air suspension seat Optional Foot Throttle Standard Full-Suspension Seat Multi-Function Display Screen Perssurized Cab Enclosure with A/C Rearview Camera ROPS/FOPS Level II Overhead Guard Stiding Side Windows Standard Stiding Side Windows Standard Stelectable Self-Leveling Hydraulic Lift Action 4 Peneumatics Rubber Track Undercarriage System Standard Security Anti-Vandalism Lock Provisions Saack-Up Alarm Easky Manager Engine Alert System with Error Display Standard Engine Alert System with Error Display Standard	Electronic Attachment Control - 14-Pin Connector	Optional
Power-A-Tach® Attachment Mounting System  Motorization/Power  Combination Radiator & Hydraulic Oil Cooler  Dual-Element Air Cleaner with Indicator  Engine Auto-Shutdown System  Standard  Glowplugs Starts Assist  Standard  Servo-Controlled Hydrostatic Drive  Standard  Two-Speed Hydrostatic Drive System  Optional  Air suspension seat  Foot Throttle  Standard  Multi-Function Display Screen  Pressurized Cab Enclosure with A/C  Rearview Camera  ROPS/FOPS Level II Overhead Guard  Sliding Side Windows  Standard  Siding Side Windows  Standard  Other options  Selectable Self-Leveling Hydraulic Lift Action 4  Pheumatics  Rount-Frack Undercarriage System  Standard  Secondary functions  Counterweight  Standard  Secondary functions  Anti-Vandalism Lock Provisions  Standard  Secondary functions  Counterweight  Standard  Standard  Security  Anti-Vandalism Lock Provisions  Standard	High-Flow Auxiliary Hydraulics	Optional
Motorization/Power Combination Radiator & Hydraulic Oil Cooler Dual-Element Air Cleaner with Indicator Engine Auto-Shutdown System Standard Glowplugs Starts Assist Standard Servo-Controlled Hydrostatic Drive Standard Two-Speed Hydrostatic Drive System Operator station  Air suspension seat Foot Throttle Standard Full-Suspension Seat Standard Multi-Function Display Screen Pressurized Cab Enclosure with A/C Rearriew Camera ROPS/FOPS Level II Overhead Guard Stiding Side Windows Standard Swing-out Cab Door Standard Swing-out Cab Door Standard Other options Seelectable Self-Leveling Hydraulic Lift Action 4 Presumatics Counterweight Standard Standard Standard Secondary functions Counterweight Standard Standard Scounterweight Standard Standard Standard Scounterweight Standard Standard Standard Standard Scounterweight Standard Standard Standard Standard Standard Scounterweight Standard Standard Scounterweight Standard Standard Scounterweight Standard Standard Standard Standard	IdealTrax® automatic track tensioning system	Standard
Combination Radiator & Hydraulic Oil Cooler Dual-Element Air Cleaner with Indicator Engine Auto-Shutdown System Standard Slowplugs Starts Assist Standard Servo-Controlled Hydrostatic Drive Standard Servo-Controlled Hydrostatic Drive Standard Two-Speed Hydrostatic Drive System Standard Operator station Air suspension seat Optional Foot Throttle Standard Foot Throttle Standard Full-Suspension Seat Optional Rearview Camera Optional RoPSyFOPS Level II Overhead Guard Stiding Side Windows Standard Swing-out Cab Door Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Pneumatics Rubber Track Undercarriage System Standard Single Flange Front/Dual Flange Rear Idlers Secondary functions Counterweight Secondary functions Counterweight Secondary Standard Secondary Stan	Power-A-Tach® Attachment Mounting System	Optional
Dual-Element Air Cleaner with Indicator Engine Auto-Shutdown System Standard Glowplugs Starts Assist Standard Servo-Controlled Hydrostatic Drive Standard TWo-Speed Hydrostatic Drive Standard TWo-Speed Hydrostatic Drive System Optional Air suspension seat Optional Foot Throttle Standard Multi-Function Display Screen Pressurized Cab Enclosure with A/C Rearview Camera Optional Rearview Camera Optional ROPS/FOPS Level II Overhead Guard Siding Side Windows Swing-out Cab Door Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Peneumatics Rubber Track Undercarriage System Standard Single Flange Front/Dual Flange Rear Idlers Secondary functions Counterweight Oedicated Undercarriage Security Anti-Vandalism Lock Provisions Back-Up Alarm Optional Easy Manager Standard Engine Alert System with Error Display Standard Engine Alert System with Error Display	Motorization/Power	
Engine Auto-Shutdown System Glowplugs Starts Assist Standard Servo-Controlled Hydrostatic Drive Standard Two-Speed Hydrostatic Drive System Standard Operator station  Air suspension seat Froot Throttle Standard Frull-Suspension Seat Multi-Function Display Screen Standard Pressurized Cab Enclosure with A/C Rearview Camera ROPS/FOPS Level II Overhead Guard Standard Stiding Side Windows Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Pressurized Cab Enclosure with A/C Rearview Camera Optional Rops/FOPS Level II Overhead Guard Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Presumatics Rubber Track Undercarriage System Standard Single Flange Front/Dual Flange Rear Idlers Secondary functions Counterweight Scandard Dedicated Undercarriage Standard Secondary functions Counterweight Standard Secondary Standard Secondary Standard Secondary Standard Secondary Standard Secondary Standard Secondary Standard Standard Secondary Standa	Combination Radiator & Hydraulic Oil Cooler	Standard
Standard Servo-Controlled Hydrostatic Drive Standard Two-Speed Hydrostatic Drive System Standard Operator station Air suspension seat Optional Foot Throttle Standard Multi-Function Display Screen Standard Multi-Function Display Screen Pressurized Cab Enclosure with A/C Rearview Camera Optional ROPS/FOPS Level II Overhead Guard Stiding Side Windows Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Preumatics Counterweight Dedicated Undercarriage Secondary functions Counterweight Dedicated Undercarriage Secondary functions Seandard Secondary functions Counterweight Dedicated Undercarriage Secondary functions Standard Sta	Dual-Element Air Cleaner with Indicator	Standard
Servo-Controlled Hydrostatic Drive Standard Two-Speed Hydrostatic Drive System Standard Two-Speed Hydrostatic Drive System Operator station Operator station Standard Two-Speed Hydrostatic Drive System Optional Foot Throttle Standard Full-Suspension seat Standard Standard Full-Suspension Seat Standard Optional Standard Optional Standard Optional Standard Optional Standard Optional Reaview Camera Optional Reaview Camera Standard Standard Standard Standard Standard Standard Standard Standard Standard Optional Reaview Camera Standard Standar	Engine Auto-Shutdown System	Standard
Two-Speed Hydrostatic Drive System  Operator station  Air suspension seat  Foot Throttle  Foot Throttle  Standard  Full-Suspension Seat  Standard  Multi-Function Display Screen  Pessurized Cab Enclosure with A/C  Optional  Rearview Camera  Optional  ROPS/FOPS Level II Overhead Guard  Standard  Stiding Side Windows  Standard  Other options  Selectable Self-Leveling Hydraulic Lift Action 4  Preneumatics  Rubber Track Undercarriage System  Standard  Secondary functions  Counterweight  Dedicated Undercarriage  Standard  Secondary functions  Counterweight  Dedicated Undercarriage  Standard  Secondary functions  Standard  Standard  Secondary functions  Standard  Standard  Secondary functions  Standard  Standard  Secondary functions  Standard  Standard  Standard  Secondary functions  Standard	Glowplugs Starts Assist	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       Sliding Side Windows     Standard       Swing-out Cab Door     Standard       Other options     Standard       Relectable Self-Leveling Hydraulic Lift Action 4     Optional       Prevumatics     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	Servo-Controlled Hydrostatic Drive	Standard
Air suspension seat Foot Throttle Standard Foull-Suspension Seat Multi-Function Display Screen Standard Pressurized Cab Enclosure with A/C Pressurized Cab Enclosure with A/C Rearview Camera Optional ROPS/FOPS Level II Overhead Guard Stiding Side Windows Standard Swing-out Cab Door Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Pneumatics Rubber Track Undercarriage System Single Flange Front/Dual Flange Rear Idlers Secondary functions Counterweight Dedicated Undercarriage Secondary functions Selectable Self-Leveling Hydraulic Standard Dedicated Undercarriage Secondary functions Counterweight Dedicated Undercarriage Standard Secondary functions Secondary functions Standard Dedicated Undercarriage Standard Secondary functions Standard Dedicated Undercarriage Standard Secondary functions Standard Dedicated Undercarriage Standard Secondary functions Standard Standard Standard Standard Standard Standard Standard	Two-Speed Hydrostatic Drive System	Standard
Foot Throttle Standard Full-Suspension Seat Standard Multi-Function Display Screen 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 Preumatics Rubber Track Undercarriage System Standard Single Flange Front/Dual Flange Rear Idlers Standard Secondary functions Counterweight Standard Dedicated Undercarriage 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	Operator station	
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Multi-Function Display Screen Pressurized Cab Enclosure with A/C Rearview Camera ROPS/FOPS Level II Overhead Guard Sliding Side Windows Standard Swing-out Cab Door Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Prenumatics Rubber Track Undercarriage System Single Flange Front/Dual Flange Rear Idlers Secondary functions Counterweight Dedicated Undercarriage Secondary Secondary Second Standard Secondary Functions Counterweight Dedicated Undercarriage Standard Secondary	Foot Throttle	Standard
Pressurized Cab Enclosure with A/C Rearview Camera Optional ROPS/FOPS Level II Overhead Guard Sliding Side Windows Standard Swing-out Cab Door Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Pneumatics Rubber Track Undercarriage System Standard Single Flange Front/Dual Flange Rear Idlers Scondary functions Counterweight Dedicated Undercarriage Security Anti-Vandalism Lock Provisions Back-Up Alarm Easy Manager Engine Alert System with Error Display Standard	Full-Suspension Seat	Standard
Reaview Camera Optional ROPS/FOPS Level II Overhead Guard Standard Sliding Side Windows 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	Multi-Function Display Screen	Standard
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 Pneumatics Rubber Track Undercarriage System Standard Single Flange Front/Dual Flange Rear Idlers Scondary functions Counterweight Standard Dedicated Undercarriage Standard Security Anti-Vandalism Lock Provisions Back-Up Alarm Easy Manager Engine Alert System with Error Display Standard	Pressurized Cab Enclosure with A/C	Optional
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	Rearview Camera	Optional
Standard Other options Selectable Self-Leveling Hydraulic Lift Action 4 Pneumatics Rubber Track Undercarriage System Single Flange Front/Dual Flange Rear Idlers Secondary functions Counterweight Standard Dedicated Undercarriage 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       Selectable Self-Leveling Hydraulic Lift Action 4     Optional       Pneumatics     Rubber Track Undercarriage System       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  Pneumatics  Rubber Track Undercarriage System  Standard  Single Flange Front/Dual Flange Rear Idlers  Scondary functions  Counterweight  Dedicated Undercarriage  Standard  Security  Anti-Vandalism Lock Provisions  Back-Up Alarm  Easy Manager  Engine Alert System with Error Display  Optional	Swing-out Cab Door	Standard
Preumatics Rubber Track Undercarriage System Standard Single Flange Front/Dual Flange Rear Idlers Secondary functions Counterweight Standard Dedicated Undercarriage Security Anti-Vandalism Lock Provisions Back-Up Alarm Easy Manager Engine Alert System with Error Display Standard Standard Standard Standard Standard Standard Standard Standard Standard	Other options	
Rubber Track Undercarriage System         Standard           Single Flange Front/Dual Flange Rear Idlers         Standard           Secondary functions         Undercarriage           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         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 Idlers         Standard           Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         Standard           Back-Up Alarm         Optional           Easy Manager         Standard           Engine Alert System with Error Display         Standard	Pneumatics	
Secondary functions         Standard           Counterweight         Standard           Dedicated Undercarriage         Standard           Security         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 Provisions Standard Back-Up Alarm Optional Easy Manager Standard Engine Alert System with Error Display Standard	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
3	Easy Manager	Standard
Mechanical Lift Cylinder Lock Standard	Engine Alert System with Error Display	Standard
	Mechanical Lift Cylinder Lock	Standard





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