

Technical sheet :

# 1650RT

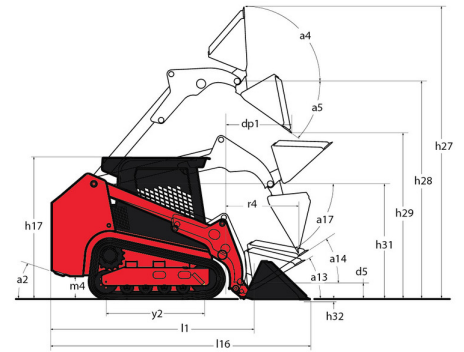
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 **MANITOU**  
HANDLING YOUR WORLD

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	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		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		9 l
Hydraulic tank capacity		39 l
Fuel tank		62.50 l
Liquid cooling tank volume		12.90 l
Displacement / Number of cylinders		3.30 l / 4
Miscellaneous		
Ground Pressure		0.45 bar

## 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 &amp; 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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