

Technical sheet :

# 1850RT



 **MANITOU**  
HANDLING YOUR WORLD

Capacities		Metric
Max. capacity	Q	2398 kg
Operating Weight		4128 kg
Unladen weight		4128 kg
Operating Capacity at 35% Tipping Load		839 kg
Operating Capacity At 50% Tipping Load		1199 kg
Tipping capacity		2398 kg
Weight and dimensions		
Overall Operating Height - Fully Raised	h27	4267 mm
Height to Hinge Pin – Fully Raised	h28	3251 mm
Dump reach - Full height	r6	876 mm
Dump angle at full height	a5	40.20 °
Dump Height - Fully Raised	h29	2489 mm
Maximum Rollback Angle - Fully Raised	a4	102.50 °
Overall Height to top of ROPS	h17	2103 mm
Overall length with bucket	l16	3754 mm
Overall Length without Bucket	l1	2921 mm
Specified Height	h31	1715 mm
Reach at Specified Height	r4	790 mm
Dump angle at specified height	a17	66.80 °
Maximum Rollback Angle at Ground	a13	30 °
Carry Position	d5	208 mm
Maximum Rollback Angle at Carry Position	a14	31.60 °
Digging Position	h32	23 mm
Angle of Departure with STD Counterweight		30.40 °
Ground clearance	m4	318 mm
Track gauge	b10	1313 mm
Track Shoe Width	b20	320 mm
Crawler base	y2	1392 mm
Overall width less bucket	b1	1636 mm
Bucket Width	e1	1674 mm
Clearance Radius - Front with Bucket	b18	2322 mm
Clearance Circle - Rear	wa1	1666 mm
Maximum rollback at specified height		66.80 °
Angle of Approach	a3	90 °
Grouser Height		25 mm
Track Type / Track Rollers / Roller Type		Rubber / 4 / Steel
Performances		
Ground Speed - Single Speed		9.50 km/h
Ground Speed - Two Speed		14.20 km/h
Drawbar Pull/Traction Effort		4635 kg
Bucket Breakout - Tilt Cylinder		2429 kg
Bucket Breakout - Lift Cylinder		2275 kg
Engine		
Engine brand		Yanmar
Engine model		4TNV98C-NMSL
Motor Type		Axial Piston with Planetary Gear Box Reduction
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)		850 A
Alternator - Voltage / Ampere		14 V / 100 A
Tank capacities		
Oil Pan Capacity		10.40 l
Hydraulic oil tank capacity		41.60 l
Fuel tank		91 l
Coolant system capacity		13.30 l
Displacement / Number of cylinders		3.30 l / 4
Miscellaneous		
Ground Pressure		0.43 bar

## 1850RT - 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

Two-Speed Hydrostatic Drive System

Standard

### Operator station

Air suspension seat

Optional

Foot Throttle

Standard

Full-Suspension Seat

Standard

IdealAccess™ Fold-Up Door

Optional

Multi-Function Display Screen

Standard

Pressurized Cab Enclosure with A/C

Optional

Rearview Camera

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

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

Standard

Easy Manager

Standard

Engine Alert System with Error Display

Standard

Mechanical Lift Cylinder Lock

Standard

Tilt-out Foot Pod

Standard



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