

Technical sheet :

1850 RT



 **MANITOU**
HANDLING YOUR WORLD

Capacities		Imperial
Max. capacity	Q	5287 lb
Operating Weight		9101 lb
Unladen weight		9101 lb
Operating Capacity at 35% Tipping Load		1850 lb
Operating Capacity At 50% Tipping Load		2643 lb
Tipping capacity		5287 lb
Weight and dimensions		
Overall Operating Height - Fully Raised	h27	168 in
Height to Hinge Pin – Fully Raised	h28	128 in
Reach - Fully Raised	dp1	34 in
Dump angle at full height	a5	40.20 °
Dump Height - Fully Raised	h29	98 in
Maximum Rollback Angle - Fully Raised	a4	102.50 °
Overall Height to Top of ROPS	h17	83 in
Overall length with bucket	l16	148 in
Overall Length without Bucket	l1	115 in
Specified Height	h31	68 in
Reach at Specified Height	r4	31 in
Dump angle at specified height	a17	66.80 °
Maximum Rollback Angle at Ground	a13	30 °
Carry Position	d5	8 in
Maximum Rollback Angle at Carry Position	a14	31.60 °
Digging Position	h32	0.91 in
Angle of Departure with STD Counterweight		30.40 °
Ground clearance	m4	13 in
Track gauge	b10	52 in
Track Shoe Width	b20	13 in
Crawler base	y2	55 in
Overall width less bucket	b1	64 in
Bucket Width	e1	66 in
Clearance Radius - Front with Bucket	b18	91 in
Clearance Circle - Rear	wa1	66 in
Maximum rollback at specified height		66.80 °
Angle of Approach	a3	90 °
Grouser Height		0.98 in
Track Type / Track Rollers / Roller Type		Rubber / 4 / Steel
Performances		
Ground Speed - Single Speed		6 mi/h
Ground Speed - Two Speed		9 mi/h
Drawbar Pull/Traction Effort		10218 lb
Bucket Breakout - Tilt Cylinder		5355 lb
Bucket Breakout - Lift Cylinder		5016 lb
Engine		
Engine brand		Yanmar
Engine model		4TNV98C-NMSL
Motor Type		Axial Piston with Planetary Gear Box Reduction
Gross Power (kW) / Power		52 kW @ 2500 rpm
Net Power (kW) / Power		51 kW / 2500 rpm
Max. torque		178 ft/lbs
Battery		12 V
Cold Cranking Amps at Temperature (CCA)		850 A
Alternator - Voltage / Ampere		14 V / 100 A
Tank capacities		
Oil Pan Capacity		3 US gal
Hydraulic tank capacity		11 US gal
Fuel tank		24 US gal
Coolant system capacity		4 US gal
Displacement / Number of cylinders		0.87 US gal / 4
Miscellaneous		
Ground Pressure		6 PSI

1850 RT - 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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