

Technical sheet :

# 1650R

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 **MANITOU**  
HANDLING YOUR WORLD

Capacities		Metric
Rated Operating Capacity		748 kg
Rated Operating Capacity with Optional Counterweight		816.50 kg
Unladen weight		2796 kg
Weight and dimensions		
Wheelbase	y	988 mm
Overall Operating Height - Fully Raised	h27	3876 mm
Height to Hinge Pin - Fully Raised	h28	3023 mm
Overall Height to top of ROPS	h17	1948 mm
Dump angle at full height	a5	38 °
Dump height	h29	2380 mm
Overall length with bucket	l16	3101 mm
Dump reach - Full height	r6	579 mm
Rollback at ground	a13	28 °
Seat to ground height	h30	904 mm
Overall width less bucket	b1	1580 mm
Bucket Width	e1	1562 mm
Ground clearance	m4	160 mm
Overall length - Less Bucket	l2	2385 mm
Departure angle	a2	21 °
Clearance Radius - Front with Bucket	b18	1869 mm
Performances		
Travel speed (unladen)		12.60 km/h
Travel Speed with Two-Speed Option - Maximum		19.50 km/h
Wheels		
Standard tires		10.00 x 16.5 HD
Engine		
Engine brand		Yanmar
Engine model		4TNV88C-KMS
Engine norm		Tier 4
Max. torque / Engine rotation		241 Nm / 2500 rpm
Power source		Diesel
Engine power (Hp / kW)		69.73 Hp / 51 kW
Battery voltage		12 V
Alternator		100 kW
Starter		3 kW
Hydraulics		
Standard flow - Auxiliary hydraulics		71.40 l/min
Auxiliary Hydraulic Pressure		207 bar
High-Flow Auxiliary Hydraulics - Option		114 l/min
High-Flow Auxiliary Hydraulics Pressure - Option		179 bar
Tank capacities		
Fuel		62.50 l
Hydraulic tank capacity		41.60 l
Displacement		3.30 l
Noise and vibration		
Noise to environment (LwA)		101 dB
Noise at driving position (LpA)		85 dB
Whole-Body Vibration (ISO 2631-1)		0.90 m/s <sup>2</sup>
Vibration on hands/arms		< 1.77 m/s <sup>2</sup>

### 1650R - Dimensional drawing



# Equipment

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Integral Access Plate (removable)	Standard
<b>Lifting function</b>	
All-Tach® Attachment Mounting System	Standard
Auxiliary Hydraulics	Standard
High-Flow Auxiliary Hydraulics	Optional
Power-A-Tach® Attachment Mounting System	Optional
<b>Lighting</b>	
Work Lights - Front and Rear	Standard
<b>Motorization/Power</b>	
Engine Auto-Shutdown System	Standard
Engine Block Heater	Optional
Swing-Out Cooler	Standard
Two-Speed Drive	Optional
<b>Operator station</b>	
Air conditioning with manual adjustment	Optional
Air suspension seat	Optional
Cab Enclosure	Optional
Foot and Hand Throttles 2	Standard
Gehl T-Bar Controls	Optional
Hand/Foot Controls	Optional
Heating	Optional
High-Back Adjustable Seat	Standard
Hom	Standard
Joystick controls	Optional
ROPS/FOPS Level II Overhead Guard	Standard
Sound Reduction Material	Standard
Suspension Seat - Mechanical	Optional
<b>Other options</b>	
Hydrostatic Drive - Servo	Standard
Selectable Self-Leveling Hydraulic Lift Action 4	Optional
<b>Secondary functions</b>	
Counterweight	Optional
Full Instrumentation	Standard
Hydraglide™ Ride Control 3	Optional
<b>Security</b>	
Anti-Vandalism Protection	Standard
Back-Up Alarm	Optional
Brake Control (Auto / Manual)	Standard
Hydraloc™ Safety System	Standard
Lift Arm Support Device	Standard
Operator Restraint Bar	Standard



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