Technical sheet :

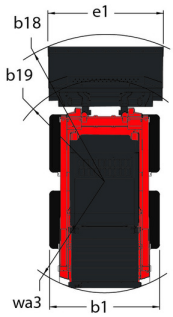
1650R



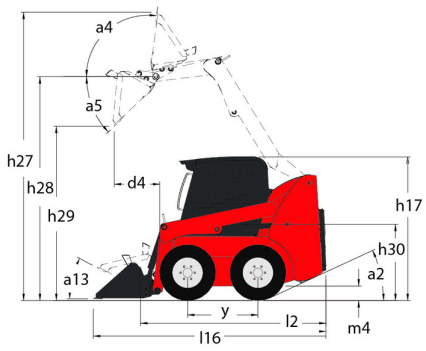
MANITOU
HANDLING YOUR WORLD

Capacities		Metric	Imperial
Rated Operating Capacity		748 kg	1649 lb
Rated Operating Capacity with Optional Counterweight		816.50 kg	1800 lb
Unladen weight		2796 kg	6164 lb
Weight and dimensions			
Overall Operating Height - Fully Raised	h27	3876 mm	153 in
Height to Hinge Pin – Fully Raised	h28	3022.60 mm	119 in
Overall Height to top of ROPS	h17	1948 mm	77 in
Dump angle at full height	a5	38 °	38 °
Dump height	h29	2380 mm	94 in
Overall length with bucket	l16	3101 mm	122 in
Dump reach - Full height	r6	579 mm	23 in
Rollback at ground	a13	28 °	28 °
Seat to ground height	h30	904 mm	36 in
Wheelbase	y	988 mm	39 in
Overall width less bucket	b1	1544 mm	61 in
Bucket Width	e1	1562 mm	61 in
Ground clearance	m4	160 mm	6 in
Overall length - Less Bucket	l2	2385 mm	94 in
Departure angle	a2	21 °	21 °
Clearance Radius - Front with Bucket	b18	1869 mm	74 in
Clearance Circle - Front without Bucket	b19	1153 mm	45 in
Clearance Circle - Rear	wa1	1466 mm	58 in
Performances			
Travel Speed with Two-Speed Option - Maximum		19.50 km/h	12 mph
Travel speed (unladen)		12.60 km/h	8 mph
Wheels			
Standard tires		10.00x16.5 HD	10.00x16.5 HD
Engine			
Engine brand		Yanmar	Yanmar
Engine model		4TNV88C-KMS	4TNV88C-KMS
Gross Power		52 kW	52 kW
Net Power		51 kW	51 kW
Max. torque / Engine rotation		241 Nm / 2500 rpm	178 ft/lbs / 2500 rpm
I.C. Engine power rating		69.73 Hp	69.73 Hp
Battery voltage		12 V	12 V
Alternator		100 kW	100 kW
Starter		3 kW	3 kW
Hydraulics			
Standard flow - Auxiliary hydraulics		71.40 l/min	19 US gpm
Auxiliary Hydraulic Pressure		207 bar	3002 PSI
High-Flow Auxiliary Hydraulics – Option		114 l/min	30 US gpm
High-Flow Auxiliary Hydraulics Pressure – Option		200 bar	2901 PSI
Tank capacities			
Fuel tank		62.50 l	17 US gal
Reservoir Capacity Hydraulics		41.60 l	11 US gal
Displacement		3.30 l	0.87 US gal
Noise and vibration			
Environmental noise (LwA)		101 dB	101 dB
Noise at driving position (LpA)		85 dB	85 dB
Whole-Body Vibration (ISO 2631-1)		0.90 m/s²	0.90 m/s²
Vibration to whole hand/arm		< 1.77 m/s²	< 1.77 m/s²

1650R - Dimensional drawing







Equipment

—	
Integral Access Plate (removable)	Standard
Lifting function	
All-Tach® Attachment Mounting System	Standard
Auxiliary Hydraulics	Standard
High-Flow Auxiliary Hydraulics	Optional
Power-A-Tach® Attachment Mounting System	Optional
Lighting	
Work Lights - Front and Rear	Standard
Motorization/Power	
Engine Auto-Shutdown System	Standard
Engine Block Heater	Optional
Swing-Out Cooler	Standard
Two-Speed Drive	Optional
Operator station	
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
Horn	Standard
Joystick controls	Optional
ROPS/FOPS Level II Overhead Guard	Standard
Sound Reduction Material	Standard
Suspension Seat - Mechanical	Optional
Other options	
Hydrostatic Drive - Servo	Standard
Selectable Self-Leveling Hydraulic Lift Action 4	Optional
Secondary functions	
Counterweight	Optional
Full Instrumentation	Standard
Hydraglide™ Ride Control 3	Optional
Security	
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

Head Office
B.P. 249 - 430 rue de l'Aubinière
44150 Ancenis Cedex - France
Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97
www.manitou.com



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.
MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes