Technical sheet :

# MBL 745 HT + (BSV)

Manitou is committed to bringing value to its backhoe loaders by incorporating advanced and robust features for multi-application capabilities. Powered by a BS-V turbocharged engine, MBL 745 HT + variant is launched for improved operational economics for our customers. It comes with a variable displacement pump which improves hydraulics in handling flow rate and pressure based on load and improves the cycle time compared to other higher power engines.





#### **MBL 745 HT + (BSV)** Created on September 13, 2025 at 4:19 PM UTC

Canacitian		Motrio
Capacities Wheelbase 2 wheels drive		Metric 2185 mm
Wheelbase 2 wheels drive		2185 mm 2140 mm
Weight and dimensions		214011111
•		7860 kg
Unladen weight with 2 WD		
Unladen weight with 2 WD 7 in 1		8150 kg
Unladen weight with 4 WD		7955 kg
Unladen weight with 4 WD 7 in 1		8245 kg
Overall length	1	7290 mm
Overall width	b1	2330 mm
Cabin height	h6	2900 mm
Overall height	h17	3790 mm
External turning radius over tyres (braked) / External turning radius over tyres (braked) 4WD	Wa1	3.30 m / 3.85 m
External turning radius over tyres (unbraked) / External turning radius over tyres (unbraked) 4WD	Wa1	4.30 m / 4.20 m
External turning radius over bucket (braked) / External turning radius over bucket (braked) 4WD	Wa5 / Wa5	5 m / 5.55 m
External turning radius over bucket (unbraked)	Wa5	5.75 m
Standard tires front / rear		9.0 x 16 - 16 PR / 16.9 x 28-12PR
Optional tyre (front / rear)		9.0 x 16 - 16 PR / 12.5 x 18 - 12 PR / 14.0 x 25 - 20 PR / 16.9 x 28 - 12 PR
Reach at travelling	c2	2030 mm
Rear axle center to slew center	c3	1308 mm
Ground clearance	m4	315 mm
Performances		
Travel speed forward 1st / 2nd		5.40 km/h / 8.60 km/h
Travel speed forward 3rd / 4th		19.90 km/h / 40 km/h
Engine		
Engine brand		M&M
Engine model / norm		MCVNC35TI074CE5A Turbocharged CEV BS-V - BS-V
Displacement		3.50
Gross Power / Power		74.80 Hp @ 2200 rpm
Max. torque / Engine rotation		400 Nm @ 1200 rpm
Battery voltage / capacity		12 V / 165 Ah
Transmission		
Transmission brand		Carraro
Number of gears (forward / reverse)		4 / 4
Torque converter stall ratio		2.64:1
Service brake		Wet disc brakes
Hydraulics		
Hydraulic flow		143 l/min
Main relief pressure		225 bar
Hydraulic pump type		Axial piston
Tank capacities		
Hydraulic oil		751
Liquid cooling tank volume		16
Fuel tank		130
Transmission oil		17.50
Engine oil		13.50
Oil rear axle		17.101
Oil rear axle 4WD		17.101
Bucket		17.301
Backhoe standard capacity		0.27 m³
Width backhoe bucket		
		889 mm
Loader standard capacity		1 m <sup>3</sup>
Width loader bucket		2235 mm
Miscellaneous Deves staning		V
Power steering		Yes
Front steer axle of oscillation 2WD		20 °
Front steer axle of oscillation 4WD		16 °

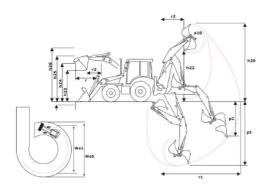
## Performance backhoe

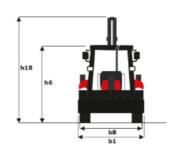
p1 - Max dig depth (mm)	4741
	4741
r1 - Max reach ground level to slew center (mm)	5730
r2 - Max loading reach (mm)	1996
Max operating height (mm)	5626
Max loading height (mm)	3871
p2 - Max straight wall dig depth (mm)	2602
a10 - Max bucket rotation (°)	194
Total side shift (mm)	1198
Dipper tearout (kgF)	3942
Bucket tearout (kgF)	5810
Hydraulic lift capacity (kg)	1460

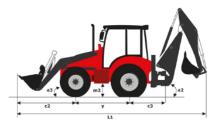
## Performance loader

ump angle (*)
Aax operating height (loader version) (mm)
Max dump height at 45° (mm)
Max loadover height (mm)
Aax hinge pin height (mm)
ax reach at full height 45° (mm)
elow ground dig depth (mm)
Rollback at ground (°)
breakout (kgf)
preakout (kgF)
capacity at full height (kg)

#### MBL 745 HT + (BSV) - Dimensional drawing









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