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.





Cananitiae		Motric
Capacities		Metric
Wheelbase 2 wheels drive		2185 mm
Wheelbase 4 wheels drive		2140 mm
Weight and dimensions		7060 km
Unladen weight with 2 WD		7860 kg
Unladen weight with 2 WD 7 in 1		8150 kg
Juladen weight with 4 WD		7955 kg
Unladen weight with 4 WD 7 in 1		8245 kg
Overall length	I1	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 tires (front / rear)	9	.0 x 16 - 16 PR / 12.5 x 18 - 12 PR / 14.0 x 25 - 2 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		
Fravel speed forward 1st / 2nd		5.40 km/h / 8.60 km/h
Fravel speed forward 3rd / 4th		19.90 km/h / 40 km/h
Engine		
Engine brand		M&M
Engine model / norm	М	CVNC35TI074CE5A Turbocharged CEV BS-V - BS
Displacement		3.50
Engine power (kW) / Gross Power		55 kW @ 2200 rpm
Max. torque / Engine rotation		400 Nm @ 1200 rpm
Battery voltage / capacity		12 V / 165 Ah
Transmission		
Fransmission brand		Carraro
Number of gears (forward / reverse)		4 / 4
Forque converter stall ratio		2.64:1
Service brake		Wet disc brakes
-lydraulics		
lydraulic flow		143 l/min
Aain relief pressure		225 bar
lydraulic pump type		Axial piston
Tank capacities		
lydraulic oil		75
Cooling liquid		16
Fuel		130 I
Fransmission oil		17.50 I
Engine oil		13.50 l
Dil rear axle		17.10
Dil rear axle 4WD		17.50 I
Bucket		
Backhoe standard capacity		0.27 m³
Width backhoe bucket		889 mm
oader standard capacity		1 m³
Vidth loader bucket		2235 mm
		223J IIIIII
Miscellaneous		Vec
Power steering		Yes
Front steer axle of oscillation 2WD		20 °
Front steer axle of oscillation 4WD Steering wheels (front / rear)		16° 2/2

Performance backhoe

p1 - Max dig depth (mm)
r1 - Max reach ground level to slew center (mm)
r2 - Max loading reach (mm)
Max operating height (mm)
Max loading height (mm)
p2 - Max straight wall dig depth (mm)
a10 - Max bucket rotation (°)
Total side shift (mm)
Dipper tearout (kgF)
Bucket tearout (kgF)
Hydraulic lift capacity (kg)

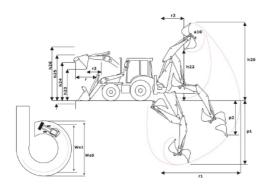
Standard dipper	
4741	
5730	
1996	
5626	
3871	
2602	
194	
1198	
3942	
5810	
1460	

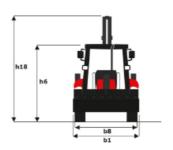
Performance loader

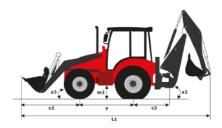
Max dump angle (°)
1 3 ()
h26 - Max operating height (loader version) (mm)
h23 - Max dump height at 45° (mm)
h24 - Max loadover height (mm)
h25 - Max hinge pin height (mm)
r3 - Max reach at full height 45° (mm)
p3 - Below ground dig depth (mm)
a13 - Rollback at ground (°)
Shovel breakout (kgf)
Arms breakout (kgF)
Lifting capacity at full height (kg)

Standard shovel
51
4230
2780
3310
3570
710
156
45
5229
4691
3467

MBL 745 HT + (BSV) - Dimensional drawing











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