Technical sheet:

# MBL 745 HT RANGER (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, the Ranger variant is launched for robustness and improved working on harder surfaces. A curved boom ensures there is no dip in the efficiency of the machine while used on harder strata and can smoothly operate in tough conditions. Curved boom due to its narrow width enables easy operation in narrow and confined areas and improves rear visibility.





Capacities		Metric
Wheelbase 2 wheels drive		2185 mm
Wheelbase 4 wheels drive		2140 mm
Weight and dimensions		
Unladen weight with 2 WD		7750 kg
Unladen weight with 2 WD 7 in 1		8040 kg
Jnladen weight with 4 WD		7845 kg
Jnladen weight with 4 WD 7 in 1		8135 kg
Overall length	l1	7340 mm
Overall width	b1	2330 mm
Cabin height	h6	2900 mm
Overall height	h17	3520 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
ixternal 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	uu	9.0 x 16 - 16 PR / 16.9 x 28-12 PR
		9 x 16 - 16 PR / 12.50 x 18 -12 PR / 14 x 25 - 20 F
Optional tires (front / rear)		16.9 x 28 - 12 PR
Reach at travelling	c2	2030 mm
lear 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		MCVNC35TI074CE5A Turbocharged CEV BS-V - B
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
Fransmission		12 47 1007111
Fransmission brand		Сапаго
Number of gears (forward / reverse)		4 / 4
Forque converter stall ratio		2.64:1
Service brake		Wet disc brakes
lydraulios		Wet disc blakes
		110 1/
lydraulic flow		119 l/min
Main relief pressure		225 bar
lydraulic pump type		Gear pump
Fank capacities		
lydraulic oil		751
iquid cooling tank volume		16
Fuel tank		130 l
Transmission oil		17.50 l
ingine oil		13.50 l
il rear axle		17.10 l
il rear axle 4WD		17.50 l
ucket		
Backhoe standard capacity		0.27 m³
Vidth backhoe bucket		889 mm
oader standard capacity		1 m³
Vidth loader bucket		2235 mm
Miscellaneous		
Power steering		Yes
Steering wheels (front / rear)		2 / 2

## Performance backhoe

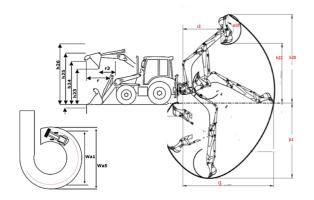
	Standard dipper
p1 - Max dig depth (mm)	4415
r1 - Max reach ground level to slew center (mm)	5710
r2 - Max loading reach (mm)	2570
Max operating height (mm)	5650
Max loading height (mm)	3555
a10 - Max bucket rotation (°)	197
Total side shift (mm)	1181
Dipper tearout (kgF)	3163
Bucket tearout (kgF)	5685
Hydraulic lift capacity (kg)	1460

## Performance loader

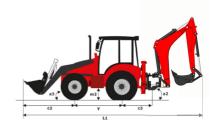
Max dump angle (°)	
h26 - Max operating height (loader version) (mm)	
h23 - Max dump height at 45° (mm)	
h24 - Max loadover height (mm)	
h25 - Max hinge pin height (mm)	
r3 - Max reach at full height 45° (mm)	
p3 - Below ground dig depth (mm)	
a13 - Rollback at ground (°)	
Shovel breakout (kgf)	
Arms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

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

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











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