Technical sheet :

MBL 745 HT RANGER

Manitou is committed to bringing value to its backhoe loaders by incorporating advanced and robust features for multi-application capabilities. Powered by a BS-IV 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.

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Capacities		Metric
Wheelbase 2 wheels drive		2185 mm
Wheelbase 4 wheels drive		2130 mm
Weight and dimensions		
Unladen weight		7300 kg
Unladen weight with 2 WD		7490 kg
Unladen weight with 2 WD 7 in 1		7780 kg
Unladen weight with 4 WD		7505 kg
Unladen weight with 4 WD 7 in 1		7795 kg
Overall length	l1	7380 mm
Overall width	b1	2330 mm
Cabin height	h6	2830 mm
Height of cab with air conditioning (option)	h6**	2860 mm
Overall height	h17	3520 mm
External turning radius over tyres (braked) / External turning radius over tyres (braked) 4WD	Wa1	3.85 m / 3.85 m
External turning radius over tyres (unbraked) / External turning radius over tyres (unbraked) 4WD	Wa1	4.20 m / 4.20 m
External turning radius over bucket (braked)	Wa5	5.55 m
External turning radius over bucket (unbraked)	Wa5	5.70 m
Standard tyres front / rear		12.5 x 18 - 12 PR / 16.9 x 28-12PR
Optional tyre (front / rear)		9 x 16 - 16 PR / 14 x 25 - 20 PR
Reach at travelling	c2	2098 mm
Rear axle center to slew center	c3	1293 mm
Ground clearance	m4	380 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		Koel
Engine model		4R1190TA-H.T Turbo Charged Water Cooled BS IV CEV
Max. capacity (l)		4.76 l
Gross Power (kW) / Power		54.80 kW @ 2200 rpm
Max. torque / Engine rotation		400 Nm @ 1200 rpm
Battery / Battery capacity		12 V / 142 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		119 l/min
Main relief pressure		225 bar
Tank capacities		
Hydraulic oil		90 l
Liquid cooling tank volume		16 l
Fuel tank		120 l
Transmission oil		17.50 l
Engine oil		11 l
Oil rear axle		17.50 l
Bucket		
Backhoe standard capacity		0.27 m³
Width backhoe bucket		889 mm
Loader standard capacity		1 m³
Width loader bucket		2235 mm
Miscellaneous		
Power steering		Yes
Front steer axle of oscillation		20 °
Front steer axle of oscillation 4WD		16 °
Steering wheels (front / rear)		2 / 2

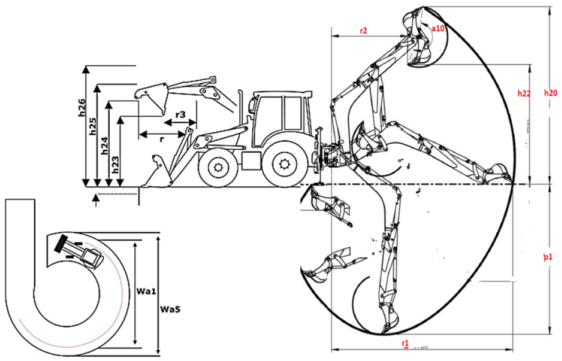
Performance backhoe

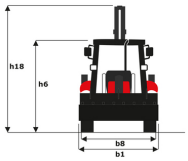
	Standard dipper
p1 - Max dig depth (mm)	4415
r1 - Max reach ground level to slew center (mm)	5710
r2 - Max loading reach (mm)	2570
Max operating height (mm)	5650
Max loading height (mm)	3555
a10 - Max bucket rotation (DEGREES)	197
Total side shift (mm)	1181
Dipper tearout (kgF)	3163
Bucket tearout (kgF)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

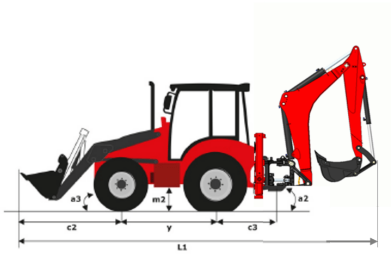
Performance loader

	Standard shovel
Max dump angle (DEGREES)	51
h26 - Max operating height (loader version) (mm)	4230
h23 - Max dump height at 45° (mm)	2780
h24 - Max loadover height (mm)	3310
h25 - Max hinge pin height (mm)	3570
r - Max reach at full height (mm)	1153
r3 - Max reach at full height 45° (mm)	710
p3 - Below ground dig depth (mm)	156
a13 - Rollback at ground (DEGREES)	45
Shovel breakout (kgf)	5229
Arms breakout (kgF)	4691
Lifting capacity at full height (kg)	3467

MBL 745 HT RANGER - Dimensional drawing







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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

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