Technical sheet:

MBL-X 900 90KL ST3

Manitou is committed to bringing value to its backhoe loaders by incorporating advanced and robust features for multi-application capabilities. MBL X 900 is powered by Tier -II/III engine. The structure of MBL X 900 is durable and designed for intensive operations. It comes with the latest cabin design and unbreakable bonnet which promises to deliver higher up-time and require low maintenance, even after prolonged usage. Customers get quick returns on their investments on top of an optimum Total Cost of Ownership. It comes with an option of features such as AC, multipurpose bucket.





Capacities		Metric	
Wheelbase 2 wheels drive		2185 mm	
Wheelbase 4 wheels drive			
		2130 mm	
Weight and dimensions		7700 !	
Unladen weight		7730 kg	
Unladen weight with 4 WD		7730 kg	
Unladen weight with 4 WD 7 in 1		8018 kg	
Unladen weight 4WD - Center mount		7455 kg	
Unladen weight 4WD - Side shift		7730 kg	
Overall length	l1	7330 mm	
Overall width	b1	2330 mm	
Overall width with stabilizers extended - Center mount only		3910 mm	
Cabin height	h6	2830 mm	
Height of cab with air conditioning (option)	h6**	2860 mm	
Overall height	h17	3790 mm	
	Wa1	3850 mm	
External turning radius over tyres (braked)			
External tuming radius over tyres (unbraked)	Wa1	4200 mm	
External turning radius over bucket (braked)	Wa5	5550 mm	
External turning radius over bucket (unbraked)	Wa5	5700 mm	
Standard tires 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	
Departure angle	a2	20 °	
Angle of Approach	a3	66 °	
Ground clearance	m4	280 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	
		19.90 KIII/II / 40 KIII/II	
Engine		16.1	
Engine brand		Kirloskar	
Engine model		4R1040TA1 Turbo Charged Water Cooled BSIII	
Max. capacity		4.15	
Gross Power / Power		67.12 kW @ 2200 rpm	
Max. torque		350 Nm	
Battery voltage / capacity		12 V / 65 Ah	
Transmission			
Transmission brand		Саггаго	
Number of gears (forward / reverse)		4 / 4	
Torque converter stall ratio		4 / 4 2.64:1	
Service brake		Wet disc brakes	
Hydraulics		Wet disc blakes	
·		140 Maria	
Hydraulic flow		142 l/min	
Main relief pressure		225 bar	
Tank capacities			
Hydraulic oil		90 I	
Liquid cooling tank volume		16 I	
Fuel tank		145 I	
Transmission oil		17.50 l	
Engine oil		9.10	
Oil rear axle		17.50 l	
Bucket			
Backhoe standard capacity		0.24 m³	
Width backhoe bucket		892 mm	
Loader standard capacity		1 m³	
Width loader bucket		2235 mm	
Miscellaneous			
Power steering Power steering		Yes	
Front steer axle of oscillation 2WD		20 °	
Front steer axle of oscillation 4WD		16 °	

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)

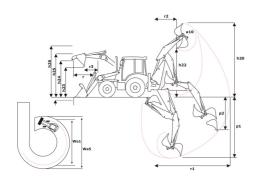
Standard dipper
4741
5730
1996
5626
3871
2602
194
1198
4336
5810
1460

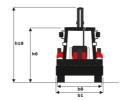
Performance loader

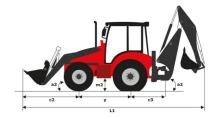
Max dump angle (°)	
h26 - Max operating height (loader version) (mm)	
h23 - Max dump height at 45° (mm)	
h24 - Max loadover height (mm)	
h25 - Max hinge pin height (mm)	
r3 - Max reach at full height 45° (mm)	
p3 - Below ground dig depth (mm)	
a13 - Rollback at ground (°)	
Shovel breakout (kgf)	
Arms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

Standard shovel	
51	
4230	
2780	
3310	
3570	
710	
156	
45	
5229	
5312	
3819	

MBL-X 900 90KL ST3 - Dimensional drawing











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