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		
Unladen weight		7730 kg
Jnladen 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	I1	7330 mm
Overall width	b1	2330 mm
Overall width with stabilizers extended - Center mount only	2.	3910 mm
Cabin height	h6	2830 mm
Height of cab with air conditioning (option)	h6**	2860 mm
Overall height	h17	3790 mm
External turning radius over tyres (braked)	Wa1	3850 mm
External turning 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 °
		66 °
Angle of Approach	a3	
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
Engine		
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		12 V / 03 All
		0
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		142 l/min
Main relief pressure		225 bar
Tank capacities		
Hydraulic oil		90 I
Liquid cooling tank volume		16
Fuel tank		145
Transmission oil		1451 17.50 l
Engine oil		9.10
Dil 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		Yes
Front steer axle of oscillation 2WD		20 °
		16 °
Front steer axle of oscillation 4WD		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)

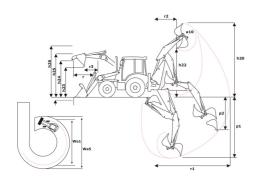
Standard dipper
4741
5730
1996
5626
3871
2602
194
1198
4336
5810
1460

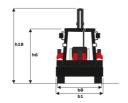
Performance loader

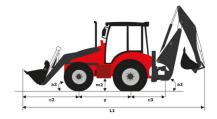
Max dump angle (°)
h26 - Max operating height (loader version) (mm)
h23 - Max dump height at 45° (mm)
h24 - Max loadover height (mm)
h25 - Max hinge pin height (mm)
r3 - Max reach at full height 45° (mm)
p3 - Below ground dig depth (mm)
a13 - Rollback at ground (°)
Shovel breakout (kgf)
Arms breakout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