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.





#### мвь-х 900 90кь этэ Created on May 17, 2024 at 9:45:15 AM UTC

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Angle of Approach     a3     66*       Ground clearance     m4     280 mm       Performances     m4     280 mm       Travel speed forward 3rd / 4th     19.9 km/h / 40 km/h     19.9 km/h / 40 km/h       Engine brand     S.40 km/h / 8.60 km/h     19.9 km/h / 40 km/h       Engine brand     Kifoskar     19.9 km/h / 40 km/h       Engine model     Kifoskar     4.151       Gross Power / Power     67.12 kW @ 2200 nm     4.151       Gross Power / Power     67.12 kW @ 2200 nm     4.151       Battery voltage / capacity     30 km/h     4.0 km/h       Transmission brand     C     67.12 kW @ 2200 nm       Max. capacity     Gross Power / Power     30 km/h       Transmission brand     C     30 km/h       Number of gaser (forward / reverse)     Cararao     4 / 4       Torque converter stall ratio     26.411     26.411       Service brake     Wetdisc brakes     Wetdisc brakes       Hydraulic flow     142 l/min     142 l/min       Main telf pressure     25.25 km     145 l       Transmission oil     11.51 l				
Ground clarancem4280 mmPerformances11Tarsel speed forward 1st / Ad19.90 km/h / 8.00 km/hTarsel speed forward 3rd / 4th19.90 km/h / 40 km/hEngine119.90 km/h / 40 km/hEngine model1KifoskarEngine model16.00 km/h / 8.00 km/hMax. capacity16.01 km/h / 8.00 km/hGross Power / Power-5.12 km / 8.200 pmMax. capacity13.50 km / 40 km/hMax. torque13.50 km / 40 km/hBattery voltag / capacity-12 km / 200 pmMax. torque13.50 km / 40 km/hBattery voltag / capacity-12 km / 200 pmMax. torque13.50 km / 40				
Performances   5.40 km/h / 8.00 km/h     Travel speed forward 3rd / 2nd   19.90 km/h / 40 km/h     Engine   Kifoskar     Engine brand   Kifoskar     Engine brand   Kifoskar     Engine brand   AR1040TAI Tubic Charged WaterCooled     Max. capacity   4.151     Gross Power / Power   67.12 kW @ 2200 pm     Max. torque   350 Nm     Battery votage / capacity   12 V / 65 Ah     Transmission   Carrano     Transmission brand   Carrano     Number of gears (forward / reverse)   4/ 4     Torque converter stall ratio   2.64:1     Service brake   Wet disc brakes     Hydraulic flow   142 Umin     Main elief pressure   225 bar     Transmission oil   161     Liquid cooling tank volume   161     Hydraulic oil   17.501     Engine oil   0.21 Mis     Oil rear ace   17.501     Engine oil   0.24 mi     With backhee bucket   892 zm     Loader standard capacity   892 zm				
Travel speed forward 1st / 2nd   \$.40 km/h / 8.60 km/h     Travel speed forward 3rd / 4th   19.90 km/h / 4.60 km/h     Engine band   Kirloskar     Engine model   Kirloskar     Kas. capacity   4.151     Gross Power / Power   6712 kW of 220 pm     Max. torque   350 Nm     Batter yotage / capacity   12 V / 65 Ah     Transmission brand   Cararo     Number of gaas (forward / reverse)   4/ 4     Torque converter stall ratio   2.64:1     Service brake   Welds brakes     Hydraulic flor   142 l/min     Main neifer pressure   142 l/min     Hydraulic oil   901     Liquid coling tank wolume   151     Fuelstank   901     Liquid coling tank wolume   151     Engine noil   901     Liquid coling tank wolume   151     Engine buckt   17.50.1     Engine buckt   17.50.1     Engine buckt   9.01.1     Unit kets backes   17.50.1     Engine buckt   82 pm     With backhoe buckte   82 pm			oo min	
Travel speed forward 3rd / 4th19.90 km/h / 40 km/hEngineKirloskarEngine brandKirloskarEngine model4R1040TA1 Turbo Charged Water CooledMax. capacity67.12 kW @ 2200 rpmMax. torque67.12 kW @ 2200 rpmMax. torque30 km / 40 km/hBattery voltage / capacity12 V / 65 AhTransmission brandCarraroNumber of gears (forward / reverse)4/ 4Torque converter stall ratio2Bydraulic flow4/ 4Hydraulic flow4/ 4Hydraulic flow142 1/minMain relief pressure142 1/minHydraulic oil143 1Liquid cooling tank volume161Evel tank145 1Transmission oil145 1Tansmission oil145 1Endine kolume150 1Beckte17.50 1Backtoe standard capacity10Width backtoe bucket902 1Loader standard capacity19 204 m³		5.40 km	/b / 8 60 km/b	
Engine   Kirloskar     Engine brand   Kirloskar     Engine model   Kirloskar     Bax, capacity   4716407A1 Turbo Charged Water Cooled     Gross Power / Power   67.12 kW @ 2200 pm     Max. torque   350 Nm     Battery voltage / apacity   73.00 Nm     Transmission brand   0     Number of gars (forward / reverse)   4/.4     Torque converter stall ratio   2.64:1     Service brake   Wet disc brakes     Hydraulis flow   225 bar     Hydraulis flow   2.25 bar     Hydraulis oil   2.25 bar     Liquid cooling tank volume   901     Liquid cooling tank volume   16.1     Fugine oil   9.01     Uit rate   9.01     Uit rate   17.50.1     Engine oil   0.24 m³     With backhee bucket   892 mm     Backhee bucket   892 mm				
Engine band   Kiłoskar     Engine model   4R1040TA1 Tubo Charged Water Cooled     Max. capacity   61.12 kW @ 2200 rpm     Max. torque   67.12 kW @ 2200 rpm     Max. torque   350 Nm     Battery voltage / capacity   12 V / 65 Ah     Transmission brad   Cararo     Number of gears (forward / reverse)   4/ 4     Torque converter stall ratio   2.64.1     Service brake   Wet disc brakes     Hydraulic flow   142 l/min     Hydraulic flow   142 l/min     Hydraulic oil   901     Liquid cooling tank wolume   161     Fuel tank   901     Liquid cooling tank wolume   910     Engine oil   9101     Uil tear axle   9101     Oil tear axle   9101     Width backhoe bucket   9101     Backet backe standad capacity   9101		13.30 K		
Engine model   4R1040TA1 Turbo Charged Water Cooled     Max. capacity   4R1040TA1 Turbo Charged Water Cooled     Gross Power / Power   67.12 kW @ 2200 pm     Max. torque   330 Nm     Battery voltage / capacity   12 V / 65 Ah     Transmission brand   Carrano     Number of gears (forward / reverse)   4 / 4     Torque converter stall ratio   24 / 4     Service brake   Wett disc brakes     Hydraulics   Wett disc brakes     Hydraulic flow   14 / 12 /min     Main relief pressure   225 bar     Tark eapacities   90 I     Liquid coling tank volume   16 I     Fuel tank   16 I     Trasmission oil   17.50 I     Dil rear axle   9.10.1     Backhoe bucket   9.10.1     Width backhoe bucket   8.20 mm		, in the second s	irloskar	
Max. capacity   4.151     Gross Power / Power   67.12 kW @ 200 pm     Max. coque   350 Nm     Battey voltage / capacity   12 V/ 65 Ah     Transmission   0     Transmission brand   0     Number of gears (forward / reverse)   4.14     Torque converter stall ratio   200 pm     Service brack   Wetdisc brackes     Hydraulie flow   142 //min     Hydraulie flow   143 //min     Hydraulie flow   143 //min     Hydraulie flow   143 //min     Hydraulie flow   143 //min     Hydraulie flow   116 //min     Hydraulie flow   116 //min     Inter appetities   17.50 //min     Equid Acoling tax volume   17.50 //min     Fuel ank   17.50 //min     Inter appetities   17.50 //min     Backhoe standard capacity   0.				
Gross Power / Power   67.12 kW @ 2200 pm     Max. torque   350 Nm     Battery voltage / capacity   12 V / 65 Ah     Transmission   Carano     Number of gears (forward / reverse)   4 / 4     Torque converter stall ratio   2.64:1     Service brake   Wet disc brakes     Hydraulica   142 / min     Main relief pressure   225 bar     Transmission oil   142 / min     Liquid cooling tank volume   161     Fuel tank   1451     Transmission oil   17.501     Engine oil   9.101     Oil rear axle   17.501     Backhoe standard capacity   0.24 m³     Width backhoe bucket   892 mm	-			
Max. torque   350 Nm     Battery voltage / capacity   12 V / 65 Ah     Transmission   12 V / 65 Ah     Transmission brand   Carano     Number of gears (forward / reverse)   4 / 4     Torque converter stall ratio   2 4 / 4     Service brake   Wet disc brakes     Hydraulice flow   Wet disc brakes     Hydraulice flow   225 bar     Hydraulice flow   225 bar     Tank capacities   225 bar     Hydraulic oil   161     Liqui cooling tank volume   161     Fuel tank   1451     Transmission oil   17.501     Engine oil   9.0101     Oil rear axie   17.501     Backhoe standard capacity   17.501     Width backhoe bucket   892 mm     Loader standard capacity   892 mm				
Battery voltage / capacity   12 V / 65 Ah     Transmission brand   C     Transmission brand   C     Number of gears (forward / reverse)   4 / 4     Torque converter stall ratio   2.64:1     Service brake   Wet disc brakes     Hydraulic flow   0     Hydraulic flow   142 V/min     Main relief pressure   225 bar     Tansmission oil   90 I     Liquid cooling tank volume   16 I     Fuel tank   145 I     Transmission oil   17.50 I     Engine oil   17.50 I     Oil rea raxle   17.50 I     Backhoe standard capacity   2.4 m <sup>3</sup> Width backhoe bucket   892 mm				
Transmission   Carraro     Transmission brand   Carraro     Number of gears (forward / reverse)   4 / 4     Torque converter stall ratio   2.64:1     Service brake   Wet disc brakes     Hydraulic flow   142 l/min     Hydraulic flow   142 l/min     Main relief pressure   225 bar     Tank capacities   90 l     Hydraulic oil   90 l     Liquid cooling tank volume   16 l     Fuel tank   145 l     Transmission oil   17.50 l     Engine oil   9.10 l     Oil rear axle   17.50 l     Backhoe standard capacity   0.24 m <sup>3</sup> Width backhoe bucket   892 mm				
Transmission brandCararoNumber of gears (forward / reverse)4 / 4Torque converter stall ratio2.64:1Service brakeWet disc brakesHydraulicsWet disc brakesHydraulic flow142 //minMain relief pressure225 barTank capacities90 lHydraulic oil90 lLiquid cooling tank volume161Fuel tank145 lTransmission oil17.50 lBin relief pres are17.50 lFuel tank17.50 lWet disc standard capacity0.24 m³Width backhoe bucket892 mmLoader standard capacity1 m³			V / 05 All	
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BucketImage: Comparison of the standard capacityBackhoe standard capacity0.24 m³Width backhoe bucket892 mmLoader standard capacity1 m³	-			
Backhoe standard capacity0.24 m³Width backhoe bucket892 mmLoader standard capacity1 m³			17.50 I	
Width backhoe bucket 892 mm   Loader standard capacity 1 m³				
Loader standard capacity 1 m <sup>3</sup>				
		8		
	Width loader bucket	2	235 mm	
Miscellaneous				
Power steering Yes				
Front steer axle of oscillation 2WD 20 °				
Front steer axle of oscillation 4WD 16 °				
Steering wheels (front / rear) 2 / 2	Steering wheels (front / rear)		2/2	

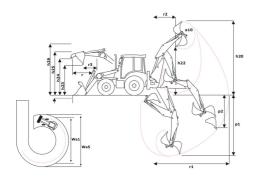
### Performance backhoe

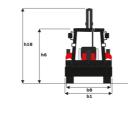
	Standard dipper
p1 - Max dig depth (mm)	4741
r1 - Max reach ground level to slew center (mm)	5730
r2 - Max loading reach (mm)	1996
Max operating height (mm)	5626
Max loading height (mm)	3871
p2 - Max straight wall dig depth (mm)	2602
a10 - Max bucket rotation (°)	194
Total side shift (mm)	1198
Dipper tearout (kgF)	4336
Bucket tearout (kgF)	5810
Hydraulic lift capacity (kg)	1460

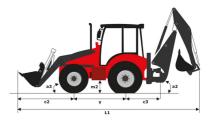
## Performance loader

	Standard shovel
Max dump angle (°)	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
r3 - Max reach at full height 45° (mm)	710
p3 - Below ground dig depth (mm)	156
a13 - Rollback at ground (°)	45
Shovel breakout (kgf)	5229
Arms breakout (kgF)	5312
Lifting capacity at full height (kg)	3819

#### MBL-X 900 90KL ST3 - Dimensional drawing









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