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                          |            |
| Neight and dimensions                                       |                                  |            |
| Inladen weight  | 7730 kg                          |            |
| Inladen weight with 4 WD                                    | 7730 kg                          |            |
| Inladen weight with 4 WD 7 in 1                             | 8018 kg                          |            |
| Inladen weight 4WD - Center mount                           | 7455 kg                          |            |
| Inladen 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                      |            |
| external turning radius over tyres (braked)                 | Wa1 3850 mm                      |            |
|   | Wa1 3800 HIIII 4200 mm           |            |
| external turning radius over tyres (unbraked)               |                                  |            |
| External turning radius over bucket (braked)                | Wa5 5550 mm                      |            |
| External turning radius over bucket (unbraked)              | Wa5 5700 mm                      | ann.       |
| Standard tires front / rear                                 | 12.5 x 18 - 12 PR / 16.9 x 28-12 |            |
| Optional tyre (front / rear)                                | 9 x 16 - 16 PR / 14 x 25 - 20 F  | ĸ          |
| 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  |                                  |            |
| ravel 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  | Kirloskar                        |            |
| Engine model  | 4R1040TA1 Turbo Charged Water Co | oled BSIII |
| Max. capacity   | 4.15                             |            |
| Gross Power / Power   | 67.12 kW @ 2200 rpm              |            |
| Max. torque   | 350 Nm                           |            |
| Battery voltage / capacity                                  | 12 V / 65 Ah                     |            |
| <b>Fransmission</b>   |                                  |            |
| Fransmission brand  | Carraro                          |            |
| Number of gears (forward / reverse)                         | 4 / 4                            |            |
| Torque converter stall ratio                                | 2.64:1                           |            |
| Service brake   | Wet disc brakes                  |            |
| lydraulics  |                                  | ,          |
| lydraulic flow  | 142 l/min                        |            |
| Main relief pressure  | 225 bar                          |            |
| Tank capacities   |                                  |            |
| lydraulic oil   | 90 I                             |            |
| iquid cooling tank volume                                   | 161                              |            |
| iuel tank   | 145 I                            |            |
| ransmission oil   | 17.50 I                          |            |
| ingine oil  | 9.10                             |            |
| il rear axle  | 17.50                            |            |
| Ducket  |                                  |            |
| ackhoe standard capacity                                    | 0.24 m³                          |            |
| Vidth backhoe bucket  | 892 mm                           |            |
|   | 892 IIIII<br>1 m³                |            |
| oader standard capacity                                     |                                  |            |
| Vidth loader bucket   | 2235 mm                          |            |
| Miscellaneous   |                                  |            |
| Power steering  | Yes                              |            |
| ront steer axle of oscillation 2WD                          | 20 °<br>16 °                     |            |
| Front steer axle of oscillation 4WD                         |                                  |            |

## 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)                    |

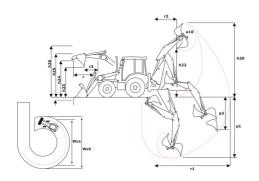
| Standard dipper |
|-----------------|
| 4741            |
| 5730            |
| 1996            |
| 5626            |
| 3871            |
| 2602            |
| 194             |
| 1198            |
| 4336            |
| 5810            |
| 1460            |
|                 |

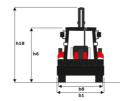
## Performance loader

| 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)                  |  |
| r - Max reach at full 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            |
| 1153            |
| 710             |
| 156             |
| 45              |
| 5229            |
| 5312            |
| 3819            |

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











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