

Technical sheet :

# **MI-X 100 D**

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|       | Technical characteristics                                       |           | Metric                        |
|-------|---|-----------|-------------------------------|
| 1.1   | Manufacturer  |           | Manitou                       |
| 1.2   | Model Name  |           | MI-X 100 D                    |
| 1.3   | Power source  |           | Diesel                        |
| 1.4   | Operator type   |           | Seated                        |
| 1.5   | Max. capacity   | Q         | 10000 kg                      |
| 1.6   | Load center of gravity  | c         | 600 mm                        |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 732 mm                        |
| 1.9   | Wheelbase   | y         | 2800 mm                       |
|       | <b>Weight</b>   |           |                               |
| 2.1   | Service weight  |           | 13590 kg                      |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 21330 kg / 2560 kg            |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 6430 kg / 7160 kg             |
|       | <b>Wheels</b>   |           |                               |
| 3.1   | Tires type  |           | Pneumatic                     |
| 3.2   | Dimensions of front wheels                                      |           | 9.00-20-14PR                  |
| 3.3   | Dimensions of rear wheels                                       |           | 9.00-20-14PR                  |
| 3.5   | Number of front wheels / rear wheels                            |           | 4 / 2                         |
| 3.5.2 | Number of drive wheels  |           | 4                             |
| 3.6   | Front wheel gauge   | b10       | 1628 mm                       |
| 3.7   | Rear wheel gauge  | b11       | 1700 mm                       |
|       | <b>Dimensions</b>   |           |                               |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2580 mm                       |
| 4.8   | Seat height/stand height  | h7        | 1505 mm                       |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 505 mm                        |
| 4.19  | Overall length  | l1        | 5742 mm                       |
| 4.20  | Length to face of forks   | l2        | 4242 mm                       |
| 4.21  | Overall width   | b1        | 2165 mm                       |
| 4.21  | Overall width - Single wheels                                   | b1        | 2165 mm                       |
| 4.22  | Forks section / width / length                                  | s / e / l | 80 mm x 160 mm x 1520 mm      |
| 4.24  | Fork carriage width   | b3        | 2044 mm                       |
| 4.31  | Ground clearance below mast                                     | m1        | 190 mm                        |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 339 mm                        |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 5973 mm                       |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 6134 mm                       |
| 4.35  | Turning radius  | Wa        | 3940 mm                       |
| 4.36  | Internal turning radius (over tyres)                            | b13       | 1396 mm                       |
|       | <b>Performances</b>   |           |                               |
| 5.1   | Travel speed (laden / unladen)                                  |           | 26 km/h-31 km/h               |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.32 m/s-0.35 m/s             |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.45 m/s-0.36 m/s             |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 8300 daN / 5400 daN           |
| 5.7   | Gradeability (laden / unladen)                                  |           | 44 % / 44 %                   |
| 5.10  | Service brake   |           | Hydraulic                     |
|       | Transmission type   |           | Torque converter              |
|       | <b>Engine</b>   |           |                               |
| 7.1   | Engine brand / model / norm                                     |           | Cummins / QSB4,5 / Stage IIIA |
| 7.2   | I.C. Engine power rating  |           | 82 kW                         |
| 7.3   | Rated speed   |           | 2200 rpm                      |
| 7.4   | Number of cylinders / Capacity of cylinders                     |           | 4 - 4500 cm³                  |
|       | <b>Miscellaneous</b>  |           |                               |
| 8.2   | Working hydraulic pressure for attachments                      |           | 195 bar                       |
| 8.3   | Oil flow rate for attachments                                   |           | 180 l/min                     |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 88 dB                       |
| 8.4   | Sound level at the driver's ear according to DIN 12 053         |           | 88 dB                         |

## MI-X 100 D - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)          |    | FVD 30 | FVD 33 | FVD 36 | FVD 40 | FVD 45 | FVD 50 |
|---------------------------------------|----|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward  | °  | 6      | 6      | 6      | 6      | 6      | 6      |
| β - Mast/fork carriage tilt, backward | °  | 12     | 12     | 12     | 12     | 6      | 6      |
| h1 - Mast lowered height              | mm | 2850   | 3000   | 3150   | 3350   | 3650   | 3900   |
| h2 - Mast free lift                   | mm | 200    | 200    | 200    | 200    | 200    | 200    |
| h3 - Mast lifting height              | mm | 3000   | 3300   | 3600   | 4000   | 4500   | 5000   |
| h4 - Mast extended height             | mm | 4555   | 4855   | 5155   | 5555   | 6055   | 6555   |
| Residual capacity at max height       | kg | 10000  | 10000  | 10000  | 10000  | 10000  | 10000  |
| Height at max capacity                | mm | 3000   | 3300   | 3600   | 4000   | 4500   | 5000   |

| Free Lift Triplex (FLT)               |    | FLT 45 | FLT 48 | FLT 50 | FLT 55 | FLT 60 |
|---------------------------------------|----|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward  | °  | 6      | 6      | 6      | 3      | 3      |
| β - Mast/fork carriage tilt, backward | °  | 6      | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height              | mm | 2850   | 2850   | 3050   | 3200   | 3350   |
| h2 - Mast free lift                   | mm | 1305   | 1405   | 1505   | 1655   | 1805   |
| h3 - Mast lifting height              | mm | 4500   | 4800   | 5000   | 5500   | 6000   |
| h4 - Mast extended height             | mm | 6055   | 6355   | 6555   | 7055   | 7555   |
| Residual capacity at max height       | kg | 8500   | 8500   | 8200   | 7700   | 7000   |
| Height at max capacity                | mm | 4500   | 4800   | 5000   | 5500   | 6000   |



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