

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                  |
| Weight                    |   |           |                          |
| 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        |
| Wheels                    |   |           |                          |
| 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                  |
| Dimensions                |   |           |                          |
| 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                  |
| Performances              |   |           |                          |
| 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         |
| Engine                    |   |           |                          |
| 7.1                       | Engine brand / model  |           | Cummins / QSB4,5         |
| 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             |
| Miscellaneous             |   |           |                          |
| 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 |
|---|----|--------|--------|--------|--------|--------|--------|
| $\alpha$ - Mast/fork carriage tilt, forward | °  | 6      | 6      | 6      | 6      | 6      | 6      |
| $\beta$ - 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 |
|---|----|--------|--------|--------|--------|--------|
| $\alpha$ - Mast/fork carriage tilt, forward | °  | 6      | 6      | 6      | 3      | 3      |
| $\beta$ - 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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