

Technical sheet :

# MI-X 20 D

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 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Metric    |                                     |
|---------------------------|---|-----------|-------------------------------------|
| 1.1                       | Manufacturer  |           | Manitou                             |
| 1.2                       | Model Name  |           | MI-X 20 D                           |
| 1.3                       | Power source  |           | Diesel                              |
| 1.4                       | Operator type   |           | Seated                              |
| 1.5                       | Max. capacity   | Q         | 2000 kg                             |
| 1.6                       | Load center of gravity  | c         | 500 mm                              |
| 1.8                       | Load distance, centre of drive axle to fork                     | x         | 465 mm                              |
| 1.9                       | Wheelbase   | y         | 1600 mm                             |
| Weight                    |   |           |                                     |
| 2.1                       | Service weight  |           | 3725 kg                             |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)                |           | 5005 kg / 720 kg                    |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1765 kg / 1960 kg                   |
| Wheels                    |   |           |                                     |
| 3.1                       | Tires type  |           | Solid tires                         |
| 3.2                       | Dimensions of front wheels                                      |           | 7.00-12 12                          |
| 3.3                       | Dimensions of rear wheels                                       |           | 6.00-9 10                           |
| 3.5                       | Number of front wheels / rear wheels                            |           | 2 / 2                               |
| 3.5.2                     | Number of drive wheels  |           | 2                                   |
| 3.6                       | Front wheel gauge   | b10       | 965 mm                              |
| 3.7                       | Rear wheel gauge  | b11       | 973 mm                              |
| Dimensions                |   |           |                                     |
| 4.8                       | Seat height/stand height  | h7        | 1190 mm                             |
| 4.7                       | Height of overhead guard (cabin)                                | h6        | 2115 mm                             |
| 4.12                      | Height of towing bar (coupling height)                          | h10       | 355 mm                              |
| 4.19                      | Overall length  | l1        | 3615 mm                             |
| 4.20                      | Length to face of forks   | l2        | 2465 mm                             |
| 4.21                      | Overall width   | b1        | 1155 mm                             |
| 4.21                      | Overall width - Single wheels                                   | b1        | 1155 mm                             |
| 4.22                      | Forks section / width / length                                  | s / e / l | 40 mm x 122 mm x 1150 mm            |
| 4.23                      | Fork carriage ISO 2328 (class/form) A/B                         |           | 2A                                  |
| 4.24                      | Fork carriage width   | b3        | 1038 mm                             |
| 4.31                      | Ground clearance below mast                                     | m1        | 115 mm                              |
| 4.32                      | Ground clearance at centre of wheelbase                         | m2        | 175 mm                              |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 3865 mm                             |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4065 mm                             |
| 4.35                      | Turning radius  | Wa        | 2200 mm                             |
| 4.36                      | Internal turning radius (over tyres)                            | b13       | 145 mm                              |
| Performances              |   |           |                                     |
| 5.1                       | Travel speed (laden / unladen)                                  |           | 18 km/h-18.50 km/h                  |
| 5.2                       | Lifting speed (laden / unladen)                                 |           | 0.47 m/s-0.55 m/s                   |
| 5.3                       | Lowering speed (laden / unladen)                                |           | 0.48 m/s-0.55 m/s                   |
| 5.5                       | Drawbar pull (Laden / Unladen)                                  |           | 1690 daN / 1230 daN                 |
| 5.7                       | Gradeability (laden / unladen)                                  |           | 20 % / 210 %                        |
| 5.10                      | Service brake   |           | Hydraulic                           |
|                           | Transmission type   |           | Torque converter                    |
| Engine                    |   |           |                                     |
| 7.1                       | Engine brand / model / norm                                     |           | Yanmar / 4TNV94L-BXPZH / Stage IIIA |
| 7.2                       | Engine power (Hp / kW)  |           | 48 Hp/35 kW                         |
| 7.3                       | Rated speed   |           | 2400 rpm                            |
| 7.4                       | Number of cylinders / Capacity of cylinders                     |           | 4 - 3054 cm³                        |
| Miscellaneous             |   |           |                                     |
| 8.2                       | Working hydraulic pressure for attachments                      |           | 160 bar                             |
| 8.3                       | Oil flow rate for attachments                                   |           | 69 l/min                            |
| 8.4                       | Measured/guaranteed mean noise level at the ear of the operator |           | < 84 dB                             |
| 8.4                       | Sound level at the driver's ear according to DIN 12 053         |           | 84 dB                               |

### MI-X 20 D - Dimensional drawing







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