

Technical sheet :

# MI-X 30 D

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 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Metric                              |
|-------|---|-----------|-------------------------------------|
| 1.1   | Manufacturer  |           | MANITOU                             |
| 1.2   | Model Name  |           | MI-X 30 D                           |
| 1.3   | Power source  |           | Diesel                              |
| 1.4   | Operator type   |           | Seated                              |
| 1.5   | Max. capacity   | Q         | 3000 kg                             |
| 1.6   | Load center of gravity  | c         | 500 mm                              |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 480 mm                              |
| 1.9   | Wheelbase   | y         | 1700 mm                             |
|       | <b>Weight</b>   |           |                                     |
| 2.1   | Service weight  |           | 4610 kg                             |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 6650 kg / 960 kg                    |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1860 kg / 2750 kg                   |
|       | <b>Wheels</b>   |           |                                     |
| 3.1   | Tires type  |           | Super Elastic                       |
| 3.2   | Dimensions of front wheels                                      |           | 28-9-15 12                          |
| 3.3   | Dimensions of rear wheels                                       |           | 6.50-10 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       | 1005 mm                             |
| 3.7   | Rear wheel gauge  | b11       | 975 mm                              |
|       | <b>Dimensions</b>   |           |                                     |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2130 mm                             |
| 4.8   | Seat height/stand height  | h7        | 1215 mm                             |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 355 mm                              |
| 4.19  | Overall length  | l1        | 3875 mm                             |
| 4.20  | Length to face of forks   | l2        | 2715 mm                             |
| 4.21  | Overall width   | b1        | 1225 mm                             |
| 4.21  | Overall width - Single wheels                                   | b1        | 1225 mm                             |
| 4.22  | Forks section / width / length                                  | s / e / l | 45 mm x 122 mm x 1150 mm            |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |           | 3A                                  |
| 4.24  | Fork carriage width   | b3        | 1100 mm                             |
| 4.31  | Ground clearance below mast                                     | m1        | 130 mm                              |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 200 mm                              |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 4140 mm                             |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4340 mm                             |
| 4.35  | Turning radius  | Wa        | 2460 mm                             |
| 4.36  | Internal turning radius (over tyres)                            | b13       | 160 mm                              |
|       | <b>Performances</b>   |           |                                     |
| 5.1   | Travel speed (laden / unladen)                                  |           | 18 km/h-18.50 km/h                  |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.45 m/s-0.52 m/s                   |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.43 m/s-0.48 m/s                   |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 1600 daN / 1380 daN                 |
| 5.7   | Gradeability (laden / unladen)                                  |           | 20 % / 20 %                         |
| 5.10  | Service brake   |           | Hydraulic                           |
|       | Transmission type   |           | Torque converter                    |
|       | <b>Engine</b>   |           |                                     |
| 7.1   | Engine brand / model / norm                                     |           | Yanmar / 4TNV94L-BXPHZ / Stage IIIA |
| 7.2   | I.C. Engine power rating  |           | 35 kW                               |
| 7.3   | Rated speed   |           | 2400 rpm                            |
| 7.4   | Number of cylinders / Capacity of cylinders                     |           | 4 - 3054 cm³                        |
|       | <b>Miscellaneous</b>  |           |                                     |
| 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 30 D - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                               |    | FVD 30 | FVD 40 |
|--|----|--------|--------|
| α - Mast/fork carriage tilt, forward                       | °  | 6      | 6      |
| β - Mast/fork carriage tilt, backward                      | °  | 12     | 12     |
| h1 - Mast lowered height                                   | mm | 2050   | 2650   |
| h2 - Mast free lift  | mm | 145    | 145    |
| h3 - Mast lifting height                                   | mm | 3000   | 4000   |
| h4 - Mast extended height                                  | mm | 3735   | 4735   |
| Residual capacity at max height                            | kg | 3000   | 3000   |
| Residual capacity with integrated side shift at max height | kg | 3000   | 3000   |
| Height at max capacity                                     | mm | 3000   | 4000   |
| Height at max capacity with integrated sideshift           | mm |        | 4000   |

| Free Lift Duplex (FLD)                                     |    | FLD 33 | FLD 37 | FLD 40 | FVD 33 |
|--|----|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                       | °  | 6      | 6      | 6      | 6      |
| β - Mast/fork carriage tilt, backward                      | °  | 12     | 12     | 12     | 12     |
| h1 - Mast lowered height                                   | mm | 2230   | 2430   | 2580   | 2200   |
| h2 - Mast free lift  | mm | 1475   | 1675   | 1825   | 145    |
| h3 - Mast lifting height                                   | mm | 3300   | 3700   | 4000   | 3300   |
| h4 - Mast extended height                                  | mm | 4055   | 4455   | 4755   | 4035   |
| Residual capacity at max height                            | kg | 3000   | 3000   | 3000   | 3000   |
| Residual capacity with integrated side shift at max height | kg | 3000   | 3000   | 3000   | 3000   |
| Height at max capacity                                     | mm | 3300   | 3700   | 4000   | 3300   |
| Height at max capacity with integrated sideshift           | mm | 3300   | 3700   | 4000   | 3300   |

| Free Lift Triplex (FLT)                                    |    | FLT 43 | FLT 45 | FLT 47 | FLT 55 | FLT 60 | FLT 65 |
|--|----|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                       | °  | 6      | 6      | 6      | 3      | 3      | 3      |
| β - Mast/fork carriage tilt, backward                      | °  | 6      | 6      | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height                                   | mm | 2115   | 2165   | 2215   | 2515   | 2765   | 2915   |
| h2 - Mast free lift  | mm | 1360   | 1410   | 1460   | 1760   | 2010   | 2160   |
| h3 - Mast lifting height                                   | mm | 4300   | 4500   | 4700   | 5500   | 6000   | 6500   |
| h4 - Mast extended height                                  | mm | 5055   | 5305   | 5455   | 6255   | 6805   | 7255   |
| Residual capacity at max height                            | kg | 2950   | 2900   | 2800   | 1850   | 1400   | 1300   |
| Residual capacity with integrated side shift at max height | kg | 2850   | 2800   | 2700   | 1750   | 1300   | 1250   |
| Height at max capacity                                     | mm | 4000   | 4000   | 4000   | 4000   | 4000   | 2500   |
| Height at max capacity with integrated sideshift           | mm | 4000   | 4000   | 4000   |        |        |        |



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