

Technical sheet :

# **MI-X 50 L D**

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 **MANITOU**  
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|       | Technical characteristics                                       |           | Metric                   |
|-------|-----------------------------------------------------------------|-----------|--------------------------|
| 1.1   | Manufacturer                                                    |           | Manitou                  |
| 1.2   | Model Name                                                      |           | MI-X 50 L D              |
| 1.3   | Power source                                                    |           | Diesel                   |
| 1.4   | Operator type                                                   |           | Seated                   |
| 1.5   | Max. capacity                                                   | Q         | 5000 kg                  |
| 1.6   | Load center of gravity                                          | c         | 600 mm                   |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 598 mm                   |
| 1.9   | Wheelbase                                                       | y         | 2300 mm                  |
|       | <b>Weight</b>                                                   |           |                          |
| 2.1   | Service weight                                                  |           | 8295 kg                  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 11500 kg / 1795 kg       |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 4080 kg / 4215 kg        |
|       | <b>Wheels</b>                                                   |           |                          |
| 3.1   | Tires type                                                      |           | Pneumatic                |
| 3.2   | Dimensions of front wheels                                      |           | 8.25-15-14PR             |
| 3.3   | Dimensions of rear wheels                                       |           | 8.25-15-14PR             |
| 3.5   | Number of front wheels / rear wheels                            |           | 4 / 2                    |
| 3.5.2 | Number of drive wheels                                          |           | 4                        |
| 3.6   | Front wheel gauge                                               | b10       | 1489 mm                  |
| 3.7   | Rear wheel gauge                                                | b11       | 1700 mm                  |
|       | <b>Dimensions</b>                                               |           |                          |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2430 mm                  |
| 4.8   | Seat height/stand height                                        | h7        | 1350 mm                  |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 710 mm                   |
| 4.19  | Overall length                                                  | l1        | 4719 mm                  |
| 4.20  | Length to face of forks                                         | l2        | 3499 mm                  |
| 4.21  | Overall width                                                   | b1        | 1990 mm                  |
| 4.21  | Overall width - Single wheels                                   | b1        | 1990 mm                  |
| 4.22  | Forks section / width / length                                  | s / e / l | 60 mm x 150 mm x 1220 mm |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |           | 4A                       |
| 4.24  | Fork carriage width                                             | b3        | 1700 mm                  |
| 4.31  | Ground clearance below mast                                     | m1        | 190 mm                   |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 270 mm                   |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 5137 mm                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 5272 mm                  |
| 4.35  | Turning radius                                                  | Wa        | 3230 mm                  |
| 4.36  | Internal turning radius (over tyres)                            | b13       | 1222 mm                  |
|       | <b>Performances</b>                                             |           |                          |
| 5.1   | Travel speed (laden / unladen)                                  |           | 27 km/h-29 km/h          |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.47 m/s-0.49 m/s        |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.48 m/s-0.42 m/s        |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 6500 daN / 2544 daN      |
| 5.7   | Gradeability (laden)                                            |           | 48 %                     |
| 5.10  | Service brake                                                   |           | Hydraulic                |
|       | <b>Engine</b>                                                   |           |                          |
| 7.1   | Engine brand / model                                            |           | Cummins / QSB3,3         |
| 7.2   | Engine power according to ISO 1585                              |           | 74 kW                    |
| 7.3   | Rated speed                                                     |           | 2200 rpm                 |
| 7.4   | Number of cylinders / Capacity of cylinders                     |           | 4 - 3300 cm³             |
|       | <b>Miscellaneous</b>                                            |           |                          |
| 8.2   | Working hydraulic pressure for attachments                      |           | 195 bar                  |
| 8.3   | Oil flow rate for attachments                                   |           | 55 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 50 L 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 |
|-----------------------------------------------------------|----|--------|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                          | °  | 6      | 6      | 6      | 6      | 6      | 6      |
| Mast/fork carriage tilt, backward                         | °  | 12     | 12     | 12     | 12     | 6      | 6      |
| h1 - Mast lowered height                                  | mm | 2500   | 2650   | 2800   | 3000   | 3300   | 3.55   |
| h2 - Mast free lift                                       | mm | 160    | 160    | 160    | 160    | 160    | 160    |
| h3 - Mast lifting height                                  | mm | 3000   | 3300   | 3600   | 4000   | 4500   | 5000   |
| h4 - Mast extended height                                 | mm | 3995   | 4295   | 4595   | 5167   | 5500   | 6000   |
| Residual capacity at max height                           | kg | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   |
| Residual capacity with hooked-on side shift at max height | kg | 4500   | 4500   | 4500   | 4500   | 4500   | 4500   |
| Height at max capacity                                    | mm | 3000   | 3300   | 3600   | 4000   | 4500   | 5000   |
| Height at max capacity with hooked-on sideshift           | mm | 3000   | 3300   | 3600   | 4000   | 4500   | 5000   |

| Free Lift Duplex (FLD)                                     |    | FLD 30 | FLD 33 | FLD 36 | FLD 40 |
|------------------------------------------------------------|----|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | °  | 6      | 6      | 6      | 6      |
| Mast/fork carriage tilt, backward                          | °  | 12     | 12     | 12     | 12     |
| h1 - Mast lowered height                                   | mm | 2450   | 2600   | 2750   | 2950   |
| h2 - Mast free lift                                        | mm | 1495   | 1645   | 1795   | 1995   |
| h3 - Mast lifting height                                   | mm | 3000   | 3300   | 3600   | 4000   |
| h4 - Mast extended height                                  | mm | 3955   | 4255   | 4555   | 4955   |
| Residual capacity at max height                            | kg | 5000   | 5000   | 5000   | 5000   |
| Residual capacity with integrated side shift at max height | kg | 4500   |        |        |        |
| Residual capacity with hooked-on side shift at max height  | kg |        | 4500   | 4500   | 4500   |
| Height at max capacity                                     | mm | 3000   | 3300   | 3600   | 4000   |
| Height at max capacity with hooked-on sideshift            | mm | 3000   | 3300   | 3600   | 4000   |

| Free Lift Triplex (FLT)                                   |    | FLT 45 | FLT 48 | FLT 50 | FLT 55 | FLT 60 |
|-----------------------------------------------------------|----|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                          | °  | 6      | 6      | 6      | 3      | 3      |
| Mast/fork carriage tilt, backward                         | °  | 6      | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height                                  | mm | 2.73   | 2825   | 2875   | 3075   | 3225   |
| h2 - Mast free lift                                       | mm | 1500   | 1600   | 1672   | 1800   | 2000   |
| h3 - Mast lifting height                                  | mm | 4500   | 4800   | 5000   | 5500   | 6000   |
| h4 - Mast extended height                                 | mm | 5735   | 6035   | 6213   | 6785   | 7235   |
| Residual capacity at max height                           | kg | 4500   | 4500   | 4500   | 4200   | 4000   |
| Residual capacity with hooked-on side shift at max height | kg | 4000   | 4000   | 4000   | 3700   | 3500   |
| Height at max capacity                                    | mm | 4500   | 4800   | 5000   | 5500   | 6000   |
| Height at max capacity with hooked-on sideshift           | mm | 4500   | 4800   | 5000   | 5500   | 6000   |



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