

Technical sheet :

# **MI-X 50 L D**

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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                       |
| Weight                    |   |           |                               |
| 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             |
| Wheels                    |   |           |                               |
| 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                       |
| Dimensions                |   |           |                               |
| 4.8                       | Seat height/stand height  | h7        | 1350 mm                       |
| 4.7                       | Height of overhead guard (cabin)                                | h6        | 2430 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                       |
| Performances              |   |           |                               |
| 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                     |
|                           | Transmission type   |           | Torque converter              |
| Engine                    |   |           |                               |
| 7.1                       | Engine brand / model / nom                                      |           | Cummins / QSB3,3 / Stage IIIA |
| 7.2                       | Engine power (Hp / kW)  |           | 101 Hp/74 kW                  |
| 7.3                       | Rated speed   |           | 2200 rpm                      |
| 7.4                       | Number of cylinders / Capacity of cylinders                     |           | 4 - 3300 cm³                  |
| Miscellaneous             |   |           |                               |
| 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 |
|---|--------|--------|--------|--------|--------|--------|
| 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                                  | 2500   | 2650   | 2800   | 3000   | 3300   | 3.55   |
| h2 - Mast free lift                                       | 160    | 160    | 160    | 160    | 160    | 160    |
| h3 - Mast lifting height                                  | 3000   | 3300   | 3600   | 4000   | 4500   | 5000   |
| h4 - Mast extended height                                 | 3995   | 4295   | 4595   | 5167   | 5500   | 6000   |
| Residual capacity at max height                           | 5000   | 5000   | 5000   | 5000   | 5000   | 5000   |
| Residual capacity with hooked-on side shift at max height | 4500   | 4500   | 4500   | 4500   | 4500   | 4500   |
| Height at max capacity                                    | 3000   | 3300   | 3600   | 4000   | 4500   | 5000   |
| Height at max capacity with hooked-on sideshift           | 3000   | 3300   | 3600   | 4000   | 4500   | 5000   |

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

| 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                                  | 2.73   | 2825   | 2875   | 3075   | 3225   |
| h2 - Mast free lift                                       | 1500   | 1600   | 1672   | 1800   | 2000   |
| h3 - Mast lifting height                                  | 4500   | 4800   | 5000   | 5500   | 6000   |
| h4 - Mast extended height                                 | 5735   | 6035   | 6213   | 6785   | 7235   |
| Residual capacity at max height                           | 4500   | 4500   | 4500   | 4200   | 4000   |
| Residual capacity with hooked-on side shift at max height | 4000   | 4000   | 4000   | 3700   | 3500   |
| Height at max capacity                                    | 4500   | 4800   | 5000   | 5500   | 6000   |
| Height at max capacity with hooked-on sideshift           | 4500   | 4800   | 5000   | 5500   | 6000   |



**Head Office**

B.P. 249 - 430 rue de l'Aubinière  
44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

[www.manitou.com](http://www.manitou.com)



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