

Technical sheet :

# MSI-X 25



| Technical characteristics |   | Metric    |                                      |
|---------------------------|---|-----------|--------------------------------------|
| 1.1                       | Manufacturer  |           | Manitou                              |
| 1.2                       | Model Name  |           | MSI-X25                              |
| 1.3                       | Power source  |           | Diesel                               |
| 1.4                       | Operator type   |           | Seated                               |
| 1.5                       | Max. capacity   | Q         | 2500 kg                              |
| 1.6                       | Load center of gravity  | c         | 500 mm                               |
| 1.8                       | Load distance, centre of drive axle to fork                     | x         | 621 mm                               |
| 1.9                       | Wheelbase   | y         | 1900 mm                              |
| Weight                    |   |           |                                      |
| 2.1                       | Service weight  |           | 3875 kg                              |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)                |           | 5510 kg / 865 kg                     |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1533 kg / 2342 kg                    |
| Wheels                    |   |           |                                      |
| 3.1                       | Tires type  |           | Inflatable                           |
| 3.2                       | Dimensions of front wheels                                      |           | 300-15/18 6T R43                     |
| 3.3                       | Dimensions of rear wheels                                       |           | 7.00-12/12 ED PLUS                   |
| 3.5                       | Number of front wheels / rear wheels                            |           | 2 / 2                                |
| 3.5.2                     | Number of drive wheels  |           | 2                                    |
| 3.6                       | Front wheel gauge   | b10       | 1044 mm                              |
| 3.7                       | Rear wheel gauge  | b11       | 1108 mm                              |
| Dimensions                |   |           |                                      |
| 4.7                       | Height of overhead guard (cabin)                                | h6        | 2095 mm                              |
| 4.8                       | Seat height/stand height  | h7        | 972 mm                               |
| 4.19                      | Overall length  | l1        | 4193 mm                              |
| 4.20                      | Length to face of forks   | l2        | 3043 mm                              |
| 4.21                      | Overall width   | b1        | 1330 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        | 1260 mm                              |
| 4.31                      | Ground clearance below mast                                     | m1        | 260 mm                               |
| 4.32                      | Ground clearance at centre of wheelbase                         | m2        | 238 mm                               |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 4591 mm                              |
| 4.35                      | Turning radius  | Wa        | 2620 mm                              |
| Performances              |   |           |                                      |
| 5.1                       | Travel speed (laden / unladen)                                  |           | 18 km/h-22 km/h                      |
| 5.2                       | Lifting speed (laden / unladen)                                 |           | 0.50 m/s-0.50 m/s                    |
| 5.3                       | Lowering speed (laden / unladen)                                |           | 0.50 m/s-0.30 m/s                    |
| 5.5                       | Drawbar pull (Laden / Unladen)                                  |           | 2010 daN / 1250 daN                  |
| 5.7                       | Gradeability (laden / unladen)                                  |           | 33 % / 34 %                          |
| 5.10                      | Service brake   |           | Hydraulic brakes by loss of pressure |
| Engine                    |   |           |                                      |
| 7.1                       | Engine brand / model  |           | Kubota / V2403                       |
| 7.2                       | I.C. Engine power rating  |           | 36 kW                                |
| 7.3                       | Rated speed   |           | 2700 rpm                             |
| 7.4                       | Number of cylinders / Capacity of cylinders                     |           | 4 - 2434 cm <sup>3</sup>             |
| Miscellaneous             |   |           |                                      |
| 8.1                       | Type of drive control   |           | Cable                                |
| 8.2                       | Working hydraulic pressure for attachments                      |           | 180 bar                              |
| 8.3                       | Oil flow rate for attachments                                   |           | 45 l/min                             |
| 8.4                       | Measured/guaranteed mean noise level at the ear of the operator |           | < 80 dB                              |
| 8.4                       | Sound level at the driver's ear according to DIN 12 053         |           | 80 dB                                |

### MSI-X 25 - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)          |    | FVD 30 | FVD 33 | FVD 37 | FVD 40 | FVD 45 |
|---------------------------------------|----|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward  | °  | 10     | 10     | 10     | 10     | 10     |
| β - Mast/fork carriage tilt, backward | °  | 12     | 12     | 12     | 12     | 12     |
| h1 - Mast lowered height              | mm | 2136   | 2286   | 2546   | 2736   | 2986   |
| h2 - Mast free lift                   | mm | 85     | 85     | 85     | 85     | 85     |
| h3 - Mast lifting height              | mm | 3000   | 3300   | 3700   | 4000   | 4500   |
| h4 - Mast extended height             | mm | 3738   | 4038   | 4438   | 4738   | 5238   |
| Residual capacity at max height       | kg | 2500   | 2500   |        |        |        |
| Height at max capacity                | mm | 3000   | 3300   | 2500   | 2500   | 2500   |

| Free Lift Triplex (FLT)               |    | FLT 34 | FLT 37 | FLT 40 | FLT 43 | FLT 47 | FLT 55 | FLT 60 |
|---------------------------------------|----|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward  | °  | 10     | 10     | 10     | 10     | 10     | 6      | 6      |
| β - Mast/fork carriage tilt, backward | °  | 12     | 12     | 12     | 12     | 12     | 6      | 6      |
| h1 - Mast lowered height              | mm | 1936   | 2036   | 2136   | 2286   | 2386   | 2736   | 2986   |
| h2 - Mast free lift                   | mm | 1183   | 1283   | 1383   | 1483   | 1633   | 1893   | 2083   |
| h3 - Mast lifting height              | mm | 3400   | 3700   | 4000   | 4300   | 4700   | 5500   | 6000   |
| h4 - Mast extended height             | mm | 4184   | 4484   | 4784   | 5116   | 5484   | 6356   | 6916   |
| Residual capacity at max height       | kg | 2500   | 2500   | 2500   | 2500   | 2500   |        |        |
| Height at max capacity                | mm | 3400   | 3700   | 4000   | 4300   | 4700   | 2500   | 2500   |

| Full Visibility Triplex (FVT)         |    | FVT 33 |
|---------------------------------------|----|--------|
| α - Mast/fork carriage tilt, forward  | °  | 10     |
| β - Mast/fork carriage tilt, backward | °  | 12     |
| h1 - Mast lowered height              | mm | 1826   |
| h2 - Mast free lift                   | mm | 72     |
| h3 - Mast lifting height              | mm | 3300   |
| h4 - Mast extended height             | mm | 4027   |
| Height at max capacity                | mm | 2500   |



**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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