

Technical sheet :

# **MI-X 80 D**

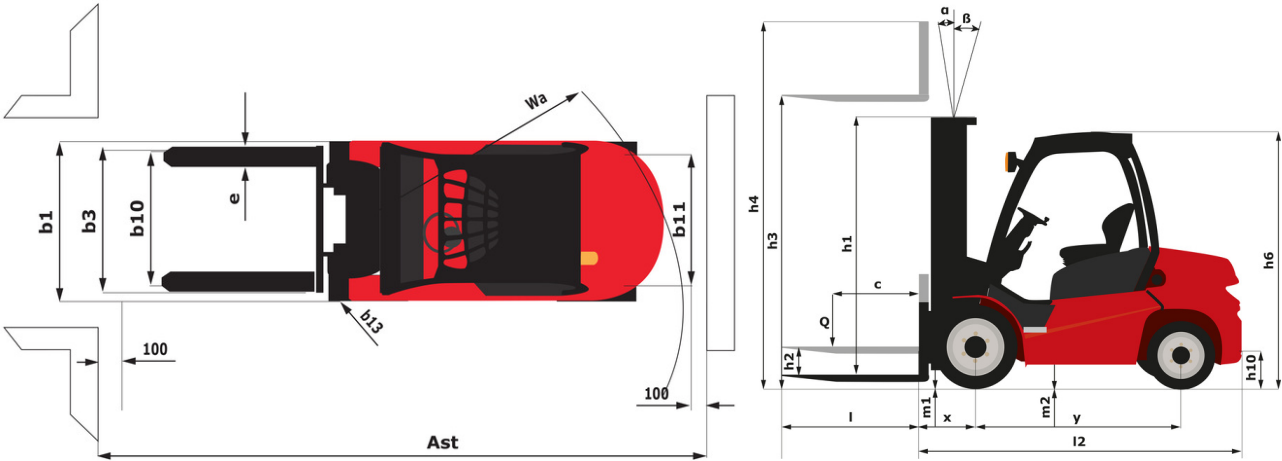
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 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Metric                   | Imperial            |
|-------|-----------------------------------------------------------------|-----------|--------------------------|---------------------|
| 1.1   | Manufacturer                                                    |           | Manitou                  | Manitou             |
| 1.2   | Model Name                                                      |           | MI-X 80 D                | MI-X 80 D           |
| 1.3   | Power source                                                    |           | Diesel                   | Diesel              |
| 1.4   | Operator type                                                   |           | Seated                   | Seated              |
| 1.5   | Max. capacity                                                   | Q         | 8000 kg                  | 17637 lb            |
| 1.6   | Load center of gravity                                          | c         | 600 mm                   | 24 in               |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 705 mm                   | 28 in               |
| 1.9   | Wheelbase                                                       | y         | 2500 mm                  | 98 in               |
|       | Weight                                                          |           |                          |                     |
| 2.1   | Service weight                                                  |           | 11790 kg                 | 25993 lb            |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 17670 kg / 2120 kg       | 38956 lb / 4674 lb  |
|       | Wheels                                                          |           |                          |                     |
| 3.1   | Tires type                                                      |           | Pneumatic                | Pneumatic           |
| 3.2   | Dimensions of front wheels                                      |           | 9.00-20-14PR             | 9.00-20-14PR        |
| 3.3   | Dimensions of rear wheels                                       |           | 9.00-20-14PR             | 9.00-20-14PR        |
| 3.5   | Number of front wheels / rear wheels                            |           | 4 / 2                    | 4 / 2               |
| 3.5.2 | Number of drive wheels                                          |           | 4                        | 4                   |
| 3.6   | Front wheel gauge                                               | b10       | 1628 mm                  | 64 in               |
| 3.7   | Rear wheel gauge                                                | b11       | 1700 mm                  | 67 in               |
|       | Dimensions                                                      |           |                          |                     |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2580 mm                  | 102 in              |
| 4.8   | Seat height/stand height                                        | h7        | 1505 mm                  | 59 in               |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 505 mm                   | 20 in               |
| 4.19  | Overall length                                                  | l1        | 5395 mm                  | 212 in              |
| 4.20  | Length to face of forks                                         | l2        | 3895 mm                  | 153 in              |
| 4.21  | Overall width                                                   | b1        | 2165 mm                  | 85 in               |
| 4.21  | Overall width - Single wheels                                   | b1        | 2165 mm                  | 85 in               |
| 4.22  | Forks section / width / length                                  | s / e / l | 75 mm x 160 mm x 1520 mm | 3 in x 6 in x 60 in |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |           | 4A                       | 4A                  |
| 4.31  | Ground clearance below mast                                     | m1        | 185 mm                   | 7 in                |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 339 mm                   | 13 in               |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 5637 mm                  | 222 in              |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 5803 mm                  | 228 in              |
| 4.36  | Internal turning radius (over tyres)                            | b13       | 1327 mm                  | 52 in               |
|       | Performances                                                    |           |                          |                     |
| 5.1   | Travel speed (laden / unladen)                                  |           | 28 km/h-32 km/h          | 17 mph-20 mph       |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.43 m/s-0.46 m/s        | 1 ft/s-2 ft/s       |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.45 m/s-0.36 m/s        | 1 ft/s-1 ft/s       |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 7860 daN / 4500 daN      | 7860 daN / 4500 daN |
| 5.7   | Gradeability (laden / unladen)                                  |           | 44 % / 44 %              | 44 % / 44 %         |
| 5.10  | Service brake                                                   |           | Hydraulic                | Hydraulic           |
|       | Engine                                                          |           |                          |                     |
| 7.1   | Engine brand / model                                            |           | Cummins / QSB4,5         | Cummins / QSB4,5    |
| 7.2   | Engine power according to ISO 1585                              |           | 82 kW                    | 82 kW               |
| 7.3   | Rated speed                                                     |           | 2200 rpm                 | 2200 rpm            |
| 7.4   | Number of cylinders / Capacity of cylinders                     |           | 4 - 4500 cm³             | 4 - 275 in³         |
|       | Miscellaneous                                                   |           |                          |                     |
| 8.3   | Oil flow rate for attachments                                   |           | 180 l/min                | 48 US gpm           |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 88 dB                  | < 88 dB             |
| 8.4   | Sound level at the driver's ear according to DIN 12 053         |           | 88 dB                    | 88 dB               |

MI-X 80 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          | in (mm) | 106.3 (2700) | 112.2 (2850) | 118.1 (3000) | 126 (3200)   | 137.8 (3500) | 147.6 (3750) |
| h2 - Mast free lift               | in (mm) | 7.9 (200)    | 7.9 (200)    | 7.9 (200)    | 7.9 (200)    | 7.9 (200)    | 7.9 (200)    |
| h3 - Mast lifting height          | in (mm) | 118.1 (3000) | 129.9 (3300) | 141.7 (3600) | 157.5 (4000) | 177.2 (4500) | 196.9 (5000) |
| h4 - Mast extended height         | in (mm) | 165.7 (4210) | 177.6 (4510) | 189.4 (4810) | 205.1 (5210) | 224.8 (5710) | 244.5 (6210) |
| Residual capacity at max height   | lb (kg) | 17637 (8000) | 17637 (8000) | 17637 (8000) | 17637 (8000) | 17637 (8000) | 17637 (8000) |
| Height at max capacity            | in (mm) | 118.1 (3000) | 129.9 (3300) | 141.7 (3600) | 157.5 (4000) | 177.2 (4500) | 196.9 (5000) |

| 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          | in (mm) | 108.3 (2750) | 112.2 (2850) | 116.1 (2950) | 122 (3100)   | 128 (3250)   |
| h2 - Mast free lift               | in (mm) | 58.5 (1485)  | 62.4 (1585)  | 63 (1600)    | 70.9 (1800)  | 78.1 (1985)  |
| h3 - Mast lifting height          | in (mm) | 177.2 (4500) | 189 (4800)   | 196.9 (5000) | 216.5 (5500) | 236.2 (6000) |
| h4 - Mast extended height         | in (mm) | 227.4 (5775) | 239.2 (6075) | 250.4 (6360) | 268.1 (6810) | 286.4 (7275) |
| Residual capacity at max height   | lb (kg) | 15432 (7000) | 15432 (7000) | 14330 (6500) | 13448 (6100) | 12346 (5600) |
| Height at max capacity            | in (mm) | 177.2 (4500) | 189 (4800)   | 196.9 (5000) | 216.5 (5500) | 236.2 (6000) |



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