Technical sheet:

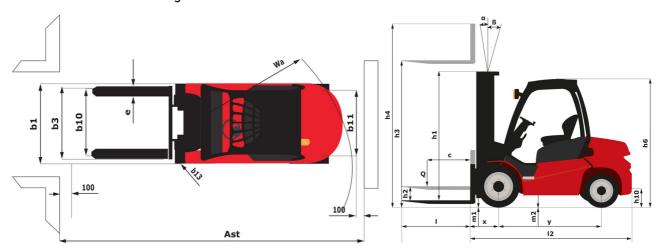
## MI 25 D





|            |  |           | MI 25 D Gleated Off April 20, 2024 at 10.30.23 FW |  |  |  |
|------------|--|-----------|---|--|--|--|
|            | Technical characteristics  |           | Imperial  |  |  |  |
| 1.1        | Manufacturer   |           | Manitou   |  |  |  |
| 1.2        | Model Name   |           | MI 25 D   |  |  |  |
| 1.3        | Power source   |           | Diesel  |  |  |  |
| .4         | Operator type  |           | Seated  |  |  |  |
| .5         | Max. capacity  | Q         | 5512 lb   |  |  |  |
| 1.6        | Load center of gravity   | С         | 20 in   |  |  |  |
| 1.8        | Load distance, centre of drive axle to fork  | X         | 18 in   |  |  |  |
| 1.9        | Wheelbase  | у         | 63 in   |  |  |  |
|            | Weight   |           |   |  |  |  |
| 2.1        | Service weight   |           | 8818 lb   |  |  |  |
| 2.2        | Weight on front axle (laden) / rear axle (laden)   |           | 12644 lb / 1687 lb                                |  |  |  |
| 2.3        | Weight on front axle (Unladen) / rear axle (Unladen)   |           | 3770 lb / 5049 lb                                 |  |  |  |
|            | Wheels   |           |   |  |  |  |
| 3.1        | Tires type   |           | Solid tires                                       |  |  |  |
| 3.2        | Dimensions of front wheels   |           | 7.00-12 12  |  |  |  |
| 3.3        | Dimensions of rear wheels  |           | 6.00-9 10   |  |  |  |
| 3.5        | Number of front wheels / rear wheels   |           | 2 / 2   |  |  |  |
| .5.2       | Number of drive wheels   |           | 2   |  |  |  |
| 3.6        | Front wheel gauge  | b10       | 38 in   |  |  |  |
| 3.7        | Rear wheel gauge   | b11       | 38 in   |  |  |  |
|            | Dimensions   |           |   |  |  |  |
| 4.7        | Height of overhead guard (cabin)   | h6        | 83 in   |  |  |  |
| 4.8        | Seat height/stand height   | h7        | 47 in   |  |  |  |
| 4.12       | Height of towing bar (coupling height)   | h10       | 14 in   |  |  |  |
| 4.19       | Overall length   | I1        | 145 in  |  |  |  |
| 4.20       | Length to face of forks  | 12        | 100 in  |  |  |  |
| 4.21       | Overall width  | b1        | 45 in   |  |  |  |
| 4.21       | Overall width - Single wheels  | b1        | 45 in   |  |  |  |
| 4.22       | Forks section / width / length   | s / e / l | 2 in x 4 ft x 45 in                               |  |  |  |
| 4.23       | Fork carriage ISO 2328 (class/form) A/B  | 37 671    | 2 III X 4 I I X 4 3 III                           |  |  |  |
| 4.23       | Fork carriage width  | b3        | 41 in   |  |  |  |
| 4.31       | Ground clearance below mast  | m1        | 5 in  |  |  |  |
| 4.32       | Ground clearance at centre of wheelbase  | m2        | 7 in  |  |  |  |
| 4.33       |  | Ast       | 155 in  |  |  |  |
| 4.34       | Aisle Width for pallets 1000 x 1200 crossways  |           | 163 in  |  |  |  |
| 4.35       | Aisle width for 800 x 1200 pallet lengthways  Turning radius   | Ast<br>Wa | 89 in   |  |  |  |
|            | •  | b13       | 6 in  |  |  |  |
| 4.36       | Internal turning radius (over tyres)   | 013       | 8 111   |  |  |  |
| 5.1        | Performances  Travel aread (leden / upleden)   |           | 11 mph 12 mph                                     |  |  |  |
|            | Travel speed (laden / unladen)   |           | 11 mph-12 mph                                     |  |  |  |
| 5.2<br>5.3 | Lifting speed (laden / unladen)  |           | 2 ft/s-2 ft/s                                     |  |  |  |
|            | Lowering speed (laden / unladen)   |           | 2 ft/s-2 ft/s                                     |  |  |  |
| 5.5        | Drawbar pull (Laden / Unladen)   |           | 1730 daN / 1240 daN                               |  |  |  |
| 5.7        | Gradeability (laden / unladen)   |           | 20 % / 20 %                                       |  |  |  |
| 5.10       | Service brake  |           | Hydraulic   |  |  |  |
| 7.1        | Engine   |           | Vermon / ATDV041 DVD17                            |  |  |  |
| 7.1        | Engine brand / model   |           | Yanmar / 4TBV94L-BXPHZ                            |  |  |  |
| 7.2        | Engine power according to ISO 1585   |           | 35 kW   |  |  |  |
| 7.3        | Rated speed  |           | 2400 rpm  |  |  |  |
| 7.4        | Number of cylinders / Capacity of cylinders  |           | 4 - 186 in³                                       |  |  |  |
| 0.0        | Miscellaneous  |           | 0004 001  |  |  |  |
| 8.2        | Working hydraulic pressure for attachments   |           | 2321 PSI  |  |  |  |
| 8.3        | Oil flow rate for attachments  |           | 18 US gpm   |  |  |  |
| 8.4        | Measured/guaranteed mean noise level at the ear of the operator  Sound level at the driver's ear according to DIN 12 053 |           | < 84 dB<br>84 dB                                  |  |  |  |

## MI 25 D - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                               |    | FVD 33 | FVD 37 | FVD 40 |
|--|----|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | ۰  | 6      | 6      | 6      |
| Mast/fork carriage tilt, backward                          | ۰  | 12     | 12     | 12     |
| h1 - Mast lowered height                                   | in | 86     | 95.9   | 103.7  |
| h2 - Mast free lift  | in | 5.5    | 5.5    | 5.5    |
| h3 - Mast lifting height                                   | in | 129.9  | 145.7  | 157.5  |
| h4 - Mast extended height                                  | in | 155.9  | 171.7  | 183.5  |
| Residual capacity at max height                            | lb | 5512   | 5512   | 5512   |
| Residual capacity with integrated side shift at max heigth | lb | 5512   | 5512   | 5512   |
| Height at max capacity                                     | in | 129.9  | 145.7  | 157.5  |
| Height at max capacity with integrated sideshift           | in | 129.9  | 145.7  | 157.5  |

| Free Lift Duplex (FLD)                                     |    | FLD 33 | FLD 37 | FLD 40 |
|--|----|--------|--------|--------|
| Mast/fork carriage tilt, forward                           |    | 6      | 6      | 6      |
| Mast/fork carriage tilt, backward                          | ۰  | 12     | 12     | 12     |
| h1 - Mast lowered height                                   | in | 85     | 92.9   | 100.8  |
| h2 - Mast free lift  | in | 58.3   | 66.1   | 74     |
| h3 - Mast lifting height                                   | in | 129.9  | 145.7  | 157.5  |
| h4 - Mast extended height                                  | in | 156.7  | 170.5  | 184.3  |
| Residual capacity at max height                            | lb | 5512   | 5512   | 5512   |
| Residual capacity with integrated side shift at max heigth | lb | 5512   | 5512   | 5512   |
| Height at max capacity                                     | in | 129.9  | 145.7  | 157.5  |
| Height at max capacity with integrated sideshift           | in | 129.9  | 145.7  | 157.5  |

| Free Lift Triplex (FLT)                                       |    | FLT 43 | FLT 45 | FLT 47 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|---|----|--------|--------|--------|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                              |    | 6      | 6      | 6      | 6      | 6      | 3      | 3      | 3      |
| Mast/fork carriage tilt, backward                             | ۰  | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height                                      | in | 82.7   | 84.6   | 86.6   | 88.6   | 90.6   | 98.4   | 108.3  | 114.2  |
| h2 - Mast free lift   | in | 55.1   | 57.9   | 59.8   | 61.8   | 63.8   | 71.7   | 81.5   | 86.6   |
| h3 - Mast lifting height                                      | in | 169.3  | 177.2  | 185    | 189    | 196.9  | 216.5  | 236.2  | 255.9  |
| h4 - Mast extended height                                     | in | 196.9  | 205.9  | 211.8  | 215.7  | 223.6  | 243.3  | 265    | 283.5  |
| Residual capacity at max height                               | lb | 5291   | 5181   | 4850   | 4850   | 4299   | 3638   | 2315   | 2205   |
| Residual capacity with integrated<br>side shift at max heigth | lb | 5181   | 5071   | 4740   | 4740   | 4189   | 3527   | 2205   | 2094   |
| Height at max capacity  | in | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 129.9  |
| Height at max capacity with<br>integrated sideshift           | in | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 129.9  |





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