

Technical sheet :

# MH 25

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|       | Technical characteristics                            |           | Metric                   | Imperial              |
|-------|------------------------------------------------------|-----------|--------------------------|-----------------------|
| 1.1   | Manufacturer                                         |           | Manitou                  | Manitou               |
| 1.2   | Model Name                                           |           | MH 25                    | MH 25                 |
| 1.3   | Power source                                         |           | Diesel                   | Diesel                |
| 1.4   | Operator type                                        |           | Sitting                  | Sitting               |
| 1.5   | Max. capacity                                        | Q         | 2500 kg                  | 5512 lb               |
| 1.6   | Load centre of gravity                               | c         | 500 mm                   | 20 in                 |
| 1.8   | Load distance, centre of drive axle to fork          | x         | 625 mm                   | 25 in                 |
| 1.9   | Wheelbase                                            | y         | 1800 mm                  | 71 in                 |
|       | Weight                                               |           |                          |                       |
| 2.1   | Service weight                                       |           | 4260 kg                  | 9392 lb               |
| 2.2   | Weight on front axle (laden) / rear axle (laden)     |           | 5812 kg / 948 kg         | 12813 lb / 2090 lb    |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen) |           | 1750 kg / 2510 kg        | 3858 lb / 5534 lb     |
|       | Wheels                                               |           |                          |                       |
| 3.1   | Tyres type                                           |           | Inflatable               | Inflatable            |
| 3.2   | Dimensions of front wheels                           |           | 280/80 R20 XMCL          | 280/80 R20 XMCL       |
| 3.3   | Dimensions of rear wheels                            |           | 27,10 - 12 IC 30 14PR    | 27,10 - 12 IC 30 14PR |
| 3.5   | Number of front wheels / rear wheels                 |           | 2 / 2                    | 2 / 2                 |
| 3.5.2 | Number of drive wheels                               |           | 4                        | 4                     |
| 3.6   | Front wheel gauge                                    | b10       | 1160 mm                  | 46 in                 |
| 3.7   | Rear wheel gauge                                     | b11       | 1164 mm                  | 46 in                 |
|       | Dimensions                                           |           |                          |                       |
| 4.1   | Tilt of Mast Forward (deg) / Backward (deg)          | a / β     | 10 / 12                  | 10 / 12               |
| 4.7   | Height of overhead guard (cabin)                     | h6        | 2105 mm                  | 83 in                 |
| 4.8   | Seat height/stand height                             | h7        | 1025 mm                  | 40 in                 |
| 4.19  | Overall length                                       | l1        | 4045 mm                  | 159 in                |
| 4.20  | Length to face of forks                              | l2        | 2945 mm                  | 116 in                |
| 4.21  | Overall width                                        | b1        | 1450 mm                  | 57 in                 |
| 4.22  | Forks section x width x length                       | s / e / l | 40 mm x 100 mm / 1100 mm | 2 in x 4 in / 43 in   |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B              |           | 2A                       | 2A                    |
| 4.24  | Fork carriage width                                  | b3        | 1260 mm                  | 50 in                 |
| 4.31  | Ground clearance below mast                          | m1        | 260 mm                   | 10 in                 |
| 4.32  | Ground clearance at centre of wheelbase              | m2        | 260 mm                   | 10 in                 |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways         | Ast       | 5290 mm                  | 208 in                |
| 4.35  | Turning radius                                       | Wa        | 3265 mm                  | 129 in                |
|       | Performances                                         |           |                          |                       |
| 5.1   | Travel speed (laden / unladen)                       |           | 14 km/h / 14 km/h        | 9 mi/h / 9 mi/h       |
| 5.2   | Lifting speed (laden / unladen)                      |           | 0.40 m/s / 0.50 m/s      | 1 ft/s / 2 ft/s       |
| 5.3   | Lowering speed (laden / unladen)                     |           | 0.50 m/s / 0.40 m/s      | 2 ft/s / 1 ft/s       |
| 5.5   | Drawbar pull (Laden)                                 |           | 3550 daN                 | 3550 daN              |
| 5.7   | Gradeability (laden / unladen)                       |           | 50 % / 48 %              | 50 % / 48 %           |
| 5.10  | Service brake                                        |           | Hydraulic                | Hydraulic             |
|       | Engine                                               |           |                          |                       |
| 7.1   | Engine brand / model                                 |           | Kubota / V2403 M-E3B     | Kubota / V2403 M-E3B  |
| 7.2   | Engine power according to ISO 1585                   |           | 36 kW                    | 36 kW                 |
| 7.3   | Rated speed                                          |           | 2700 rpm                 | 2700 rpm              |
| 7.4   | Number of cylinders / Capacity of cylinders          |           | 4 - 2434 cm³             | 4 - 149 in³           |
|       | Miscellaneous                                        |           |                          |                       |
| 8.2   | Working hydraulic pressure for attachments           |           | 170 bar                  | 2466 PSI              |
| 8.3   | Oil flow rate for attachments                        |           | 77 l/min                 | 77 l/min              |

## Characteristics of masts and residual capacities

| Duplex with total visibility            |    | FVD 27  | FVD 30  | FVD 33  | FVD 35  | FVD 37  | FVD 40  | FVD 45  | FVD 50 | FVD 55 | FVD 60 |
|-----------------------------------------|----|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| h2 - Free lift                          | mm | 130     | 130     | 130     | 130     | 130     | 130     | 130     | 130    | 130    | 130    |
| h1 - Height mast lowered *              | mm | 1995    | 2145    | 2295    | 2395    | 2555    | 2745    | 2995    | 3245   | 3495   | 3785   |
| h4 - Height mast extended *             | mm | 3531    | 3831    | 4070    | 4331    | 4531    | 4831    | 5331    | 5831   | 6331   | 6831   |
| h3 - Max. lifting height                | mm | 7000    | 7000    | 7000    | 7000    | 7000    | 7000    | 7000    | 7000   | 7000   | 7000   |
| α / β - Mast inclination (front / rear) | °  | 10 / 12 | 10 / 12 | 10 / 12 | 10 / 12 | 10 / 12 | 10 / 12 | 10 / 12 | 6 / 6  | 6 / 6  | 6 / 6  |
| Residual capacity at max height         | kg | 2500    | 2500    | 2500    | 1900    | 1900    | 1550    | 1100    |        |        |        |

| Free lift triplex                                            |    | FLT 37  | FLT 40  | FLT 43  | FLT 47  | FLT 50 | FLT 55 | FLT 60 | FLT 65 | FLT 70 |
|--------------------------------------------------------------|----|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| h2 - Free lift                                               | mm | 1221    | 1321    | 1421    | 1571    | 1671   | 1831   | 2021   | 2271   | 2521   |
| h1 - Height mast lowered *                                   | mm | 1945    | 2045    | 2145    | 2295    | 2395   | 2555   | 2745   | 2995   | 3245   |
| h4 - Height mast extended *                                  | mm | 4469    | 4769    | 5069    | 5469    | 5769   | 6269   | 6769   | 7269   | 7769   |
| h3 - Max. lifting height                                     | mm | 7000    | 7000    | 7000    | 7000    | 7000   | 7000   | 7000   | 7000   | 7000   |
| α / β - Mast inclination (front / rear)                      | °  | 10 / 12 | 10 / 12 | 10 / 12 | 10 / 12 | 6 / 6  | 6 / 6  | 6 / 6  | 6 / 6  | 6 / 6  |
| Residual capacity at max height                              | kg | 1900    | 1550    | 1250    | 1000    |        | 700    |        |        |        |
| Residual capacity without attachment (Industrial load chart) | kg |         |         |         |         |        | 700    |        |        |        |
| Height at max capacity with integrated sideshift             | mm |         |         | 4300    |         |        |        |        |        |        |



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