

Technical sheet :

# **MH 25**

---



 **MANITOU**  
HANDLING YOUR WORLD

|       | 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                                        |           | Seated                   | Seated                |
| 1.5   | Max. capacity                                        | Q         | 2500 kg                  | 5512 lb               |
| 1.6   | Load center 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   | Tires 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                                           |           |                          |                       |
| 4.7   | 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 mph / 9 mph         |
| 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                                               |           |                          |                       |
| 7.2   | Engine power according to ISO 1585                   |           | 36 kW                    | 36 kW                 |
| 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                 | 20 US gpm             |

# Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)      |         | FVD 27      | FVD 30       | FVD 33       | FVD 35       | FVD 37       | FVD 40       | FVD 45       | FVD 50       | FVD 55       | FVD 60       |
|-----------------------------------|---------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Mast/fork carriage tilt, forward  | °       | 10          | 10           | 10           | 10           | 10           | 10           | 10           | 6            | 6            | 6            |
| Mast/fork carriage tilt, backward | °       | 12          | 12           | 12           | 12           | 12           | 12           | 12           | 6            | 6            | 6            |
| h1 - Mast lowered height          | in (mm) | 78.5 (1995) | 84.4 (2145)  | 90.4 (2295)  | 94.3 (2395)  | 100.6 (2555) | 108.1 (2745) | 117.9 (2995) | 127.8 (3245) | 137.6 (3495) | 149 (3785)   |
| h2 - Mast free lift               | in (mm) | 5.1 (130)   | 5.1 (130)    | 5.1 (130)    | 5.1 (130)    | 5.1 (130)    | 5.1 (130)    | 5.1 (130)    | 5.1 (130)    | 5.1 (130)    | 5.1 (130)    |
| h4 - Mast extended height         | in (mm) | 139 (3531)  | 150.8 (3831) | 160.2 (4070) | 170.5 (4331) | 178.4 (4531) | 190.2 (4831) | 209.9 (5331) | 229.6 (5831) | 249.3 (6331) | 268.9 (6831) |
| Residual capacity at max height   | lb (kg) | 5512 (2500) | 5512 (2500)  | 5512 (2500)  | 4189 (1900)  | 4189 (1900)  | 3417 (1550)  | 2425 (1100)  |              |              |              |
| Height at max capacity            | in (mm) | 98.4 (2500) | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  |

| Free Lift Triplex (FLT)                          |         | FLT 37       | FLT 40       | FLT 43       | FLT 47       | FLT 50       | FLT 55       | FLT 60       | FLT 65       | FLT 70       |
|--------------------------------------------------|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Mast/fork carriage tilt, forward                 | °       | 10           | 10           | 10           | 10           | 6            | 6            | 6            | 6            | 6            |
| Mast/fork carriage tilt, backward                | °       | 12           | 12           | 12           | 12           | 6            | 6            | 6            | 6            | 6            |
| h1 - Mast lowered height                         | in (mm) | 76.6 (1945)  | 80.5 (2045)  | 84.4 (2145)  | 90.4 (2295)  | 94.3 (2395)  | 100.6 (2555) | 108.1 (2745) | 117.9 (2995) | 127.8 (3245) |
| h2 - Mast free lift                              | in (mm) | 48.1 (1221)  | 52 (1321)    | 55.9 (1421)  | 61.9 (1571)  | 65.8 (1671)  | 72.1 (1831)  | 79.6 (2021)  | 89.4 (2271)  | 99.3 (2521)  |
| h4 - Mast extended height                        | in (mm) | 175.9 (4469) | 187.8 (4769) | 199.6 (5069) | 215.3 (5469) | 227.1 (5769) | 246.8 (6269) | 266.5 (6769) | 286.2 (7269) | 305.9 (7769) |
| Residual capacity at max height                  | lb (kg) | 4189 (1900)  | 3417 (1550)  | 2756 (1250)  | 2205 (1000)  |              | 1543 (700)   |              |              |              |
| Height at max capacity                           | in (mm) | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  | 98.4 (2500)  |
| Height at max capacity with integrated sideshift | in (mm) |              |              | 169.3 (4300) |              |              |              |              |              |              |



**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)



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes