

Technical sheet :

# **MI 45 G ST5**

---



 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Metric    |                            |
|---------------------------|---|-----------|----------------------------|
| 1.1                       | Manufacturer  |           | Manitou                    |
| 1.2                       | Model Name  |           | MI 45 G ST5                |
| 1.3                       | Power source  |           | LPG                        |
| 1.4                       | Operator type   |           | Seated                     |
| 1.5                       | Max. capacity   | Q         | 4500 kg                    |
| 1.6                       | Load center of gravity  | c         | 500 mm                     |
| 1.8                       | Load distance, centre of drive axle to fork                     | x         | 550 mm                     |
| 1.9                       | Wheelbase   | y         | 2000 mm                    |
| Weight                    |   |           |                            |
| 2.1                       | Service weight  |           | 6630 kg                    |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)                |           | 9850 kg / 1280 kg          |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 3000 kg / 3630 kg          |
| Wheels                    |   |           |                            |
| 3.1                       | Tires type  |           | Pneumatic                  |
| 3.2                       | Dimensions of front wheels                                      |           | 300-15-18PR                |
| 3.3                       | Dimensions of rear wheels                                       |           | 7.00-12-12PR               |
| 3.5                       | Number of front wheels / rear wheels                            |           | 2 / 2                      |
| 3.5.2                     | Number of drive wheels  |           | 2                          |
| 3.6                       | Front wheel gauge   | b10       | 1190 mm                    |
| 3.7                       | Rear wheel gauge  | b11       | 1130 mm                    |
| Dimensions                |   |           |                            |
| 4.8                       | Seat height/stand height  | h7        | 1370 mm                    |
| 4.7                       | Height of overhead guard (cabin)                                | h6        | 2390 mm                    |
| 4.12                      | Height of towing bar (coupling height)                          | h10       | 445 mm                     |
| 4.19                      | Overall length  | l1        | 4315 mm                    |
| 4.20                      | Length to face of forks   | l2        | 3095 mm                    |
| 4.21                      | Overall width   | b1        | 1490 mm                    |
| 4.21                      | Overall width - Single wheels                                   | b1        | 1490 mm                    |
| 4.21                      | Overall width - Twinned wheels                                  | b1        | 1940 mm                    |
| 4.22                      | Forks section / width / length                                  | s / e / l | 50 mm x 150 mm x 1220 mm   |
| 4.23                      | Fork carriage ISO 2328 (class/form) A/B                         |           | 3A                         |
| 4.24                      | Fork carriage width   | b3        | 1250 mm                    |
| 4.31                      | Ground clearance below mast                                     | m1        | 170 mm                     |
| 4.32                      | Ground clearance at centre of wheelbase                         | m2        | 230 mm                     |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 4350 mm                    |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4550 mm                    |
| 4.35                      | Turning radius  | Wa        | 2800 mm                    |
| 4.36                      | Internal turning radius (over tyres)                            | b13       | 100 mm                     |
| Performances              |   |           |                            |
| 5.1                       | Travel speed (laden / unladen)                                  |           | 21 km/h-22 km/h            |
| 5.2                       | Lifting speed (laden / unladen)                                 |           | 0.49 m/s-0.52 m/s          |
| 5.3                       | Lowering speed (laden / unladen)                                |           | 0.50 m/s-0.50 m/s          |
| 5.5                       | Drawbar pull (Laden / Unladen)                                  |           | 3800 daN / 2200 daN        |
| 5.7                       | Gradeability (laden / unladen)                                  |           | 23 % / 34 %                |
| 5.10                      | Service brake   |           | Oil bath                   |
|                           | Transmission type   |           | Torque converter           |
| Engine                    |   |           |                            |
| 7.1                       | Engine brand / model / norm                                     |           | Kubota / WG 3800 / Stage V |
| 7.2                       | Engine power (Hp / kW)  |           | 83 Hp/61 kW                |
| 7.3                       | Rated speed   |           | 2300 rpm                   |
| 7.4                       | Number of cylinders / Capacity of cylinders                     |           | 4 - 3769 cm³               |
| Miscellaneous             |   |           |                            |
| 8.2                       | Working hydraulic pressure for attachments                      |           | 190 bar                    |
| 8.3                       | Oil flow rate for attachments                                   |           | 55 l/min                   |
| 8.4                       | Measured/guaranteed mean noise level at the ear of the operator |           | < 83 dB                    |

### MI 45 G ST5 - Dimensional drawing







**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