

Technical sheet :

# **MI 50 GST5**

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| Technical characteristics |                                                                 | Metric    |                            |
|---------------------------|-----------------------------------------------------------------|-----------|----------------------------|
| 1.1                       | Manufacturer                                                    |           | Manitou                    |
| 1.2                       | Model Name                                                      |           | MI 50 G ST5                |
| 1.3                       | Power source                                                    |           | Lpg                        |
| 1.4                       | Operator type                                                   |           | Seated                     |
| 1.5                       | Max. capacity                                                   | Q         | 5000 kg                    |
| 1.6                       | Load center of gravity                                          | c         | 500 mm                     |
| 1.8                       | Load distance, centre of drive axle to fork                     | x         | 560 mm                     |
| 1.9                       | Wheelbase                                                       | y         | 2150 mm                    |
| Weight                    |                                                                 |           |                            |
| 2.1                       | Service weight                                                  |           | 6930 kg                    |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)                |           | 10510 kg / 1420 kg         |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 3100 kg / 3830 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                |                                                                 |           |                            |
| 4.7                       | Height of overhead guard (cabin)                                | h6        | 2390 mm                    |
| 4.8                       | Seat height/stand height                                        | h7        | 1370 mm                    |
| 4.12                      | Height of towing bar (coupling height)                          | h10       | 445 mm                     |
| 4.19                      | Overall length                                                  | l1        | 4470 mm                    |
| 4.20                      | Length to face of forks                                         | l2        | 3250 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       | 4475 mm                    |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4675 mm                    |
| 4.35                      | Turning radius                                                  | Wa        | 2920 mm                    |
| 4.36                      | Internal turning radius (over tyres)                            | b13       | 130 mm                     |
| Performances              |                                                                 |           |                            |
| 5.1                       | Travel speed (laden / unladen)                                  |           | 21 km/h-22 km/h            |
| 5.2                       | Lifting speed (laden / unladen)                                 |           | 0.43 m/s-0.46 m/s          |
| 5.3                       | Lowering speed (laden / unladen)                                |           | 0.50 m/s-0.50 m/s          |
| 5.5                       | Drawbar pull (Laden / Unladen)                                  |           | 3800 daN / 2300 daN        |
| 5.7                       | Gradeability (laden / unladen)                                  |           | 22 % / 32 %                |
| 5.10                      | Service brake                                                   |           | Oil bath                   |
|                           | Transmission type                                               |           | Torque converter           |
| Engine                    |                                                                 |           |                            |
| 7.1                       | Engine brand / model / norm                                     |           | Kubota / WG 3800 / Stage V |
| 7.2                       | I.C. Engine power rating                                        |           | 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 50 G ST5 - Dimensional drawing







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