

Technical sheet :

# MI 18 G ST5

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 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Metric    |                            |
|---------------------------|---|-----------|----------------------------|
| 1.1                       | Manufacturer  |           | MANITOU                    |
| 1.2                       | Model Name  |           | MI 18 G ST5                |
| 1.3                       | Power source  |           | Lpg                        |
| 1.4                       | Operator type   |           | Seated                     |
| 1.5                       | Max. capacity   | Q         | 1800 kg                    |
| 1.6                       | Load center of gravity  | c         | 500 mm                     |
| 1.8                       | Load distance, centre of drive axle to fork                     | x         | 405 mm                     |
| 1.9                       | Wheelbase   | y         | 1420 mm                    |
| Weight                    |   |           |                            |
| 2.1                       | Service weight  |           | 2905 kg                    |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)                |           | 4160 kg / 454 kg           |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1215 kg / 1690 kg          |
| Wheels                    |   |           |                            |
| 3.1                       | Tires type  |           | Super Elastic              |
| 3.2                       | Dimensions of front wheels                                      |           | 6.50-10 10                 |
| 3.3                       | Dimensions of rear wheels                                       |           | 5.00-8 8                   |
| 3.5                       | Number of front wheels / rear wheels                            |           | 2 / 2                      |
| 3.5.2                     | Number of drive wheels  |           | 2                          |
| 3.6                       | Front wheel gauge   | b10       | 900 mm                     |
| 3.7                       | Rear wheel gauge  | b11       | 920 mm                     |
| Dimensions                |   |           |                            |
| 4.7                       | Height of overhead guard (cabin)                                | h6        | 2090 mm                    |
| 4.8                       | Seat height/stand height  | h7        | 1160 mm                    |
| 4.12                      | Height of towing bar (coupling height)                          | h10       | 315 mm                     |
| 4.19                      | Overall length  | l1        | 3350 mm                    |
| 4.20                      | Length to face of forks   | l2        | 2280 mm                    |
| 4.21                      | Overall width   | b1        | 1080 mm                    |
| 4.21                      | Overall width - Single wheels                                   | b1        | 1080 mm                    |
| 4.21                      | Overall width - Twinned wheels                                  | b1        | 1500 mm                    |
| 4.22                      | Forks section / width / length                                  | s / e / l | 35 mm x 100 mm x 1070 mm   |
| 4.23                      | Fork carriage ISO 2328 (class/form) A/B                         |           | 2A                         |
| 4.24                      | Fork carriage width   | b3        | 1000 mm                    |
| 4.31                      | Ground clearance below mast                                     | m1        | 115 mm                     |
| 4.32                      | Ground clearance at centre of wheelbase                         | m2        | 150 mm                     |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 3615 mm                    |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 3815 mm                    |
| 4.35                      | Turning radius  | Wa        | 2010 mm                    |
| 4.36                      | Internal turning radius (over tyres)                            | b13       | 55 mm                      |
| Performances              |   |           |                            |
| 5.1                       | Travel speed (laden / unladen)                                  |           | 17.50 km/h-18 km/h         |
| 5.2                       | Lifting speed (laden / unladen)                                 |           | 0.61 m/s-0.65 m/s          |
| 5.3                       | Lowering speed (laden / unladen)                                |           | 0.50 m/s-0.55 m/s          |
| 5.5                       | Drawbar pull (Laden / Unladen)                                  |           | 1800 daN / 800 daN         |
| 5.7                       | Gradeability (laden / unladen)                                  |           | 20 % / 20 %                |
| 5.10                      | Service brake   |           | Hydraulic                  |
| Engine                    |   |           |                            |
| 7.1                       | Engine brand / model  |           | GCT (ex-Nissan) / GK21 LPG |
| 7.2                       | I.C. Engine power rating  |           | 38.40 kW                   |
| 7.3                       | Rated speed   |           | 2700 rpm                   |
| 7.4                       | Number of cylinders / Capacity of cylinders                     |           | 4 - 2065 cm³               |
| Miscellaneous             |   |           |                            |
| 8.2                       | Working hydraulic pressure for attachments                      |           | 160 bar                    |
| 8.3                       | Oil flow rate for attachments                                   |           | 25 l/min                   |
| 8.4                       | Measured/guaranteed mean noise level at the ear of the operator |           | < 81 dB                    |

### MI 18 G ST5 - Dimensional drawing







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