

Technical sheet :

# MI 45 D ST5

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 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Metric                     |
|-------|-----------------------------------------------------------------|-----------|----------------------------|
| 1.1   | Manufacturer                                                    |           | MANITOU                    |
| 1.2   | Model Name                                                      |           | MI 45 D ST5                |
| 1.3   | Power source                                                    |           | Diesel                     |
| 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                                                      |           | Super Elastic              |
| 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        | 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       | 4550 mm                    |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4350 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)                                  |           | 13 km/h-23 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 / 2000 daN        |
| 5.7   | Gradeability (laden / unladen)                                  |           | 20 % / 20 %                |
| 5.10  | Service brake                                                   |           | Hydraulic                  |
|       | Engine                                                          |           |                            |
| 7.1   | Engine brand / model / norm                                     |           | Deutz / TCD2.9L4 / Stage V |
| 7.2   | Engine power according to ISO 1585                              |           | 55.40 kW                   |
| 7.3   | Rated speed                                                     |           | 2200 rpm                   |
| 7.4   | Number of cylinders / Capacity of cylinders                     |           | 4 - 2920 cm³               |
|       | Miscellaneous                                                   |           |                            |
| 8.2   | Working hydraulic pressure for attachments                      |           | 190 bar                    |
| 8.3   | Oil flow rate for attachments                                   |           | 90 l/min                   |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 89 dB                    |

## MI 45 D ST5 - Dimensional drawing







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