

Technical sheet :

# **M 70-2 H D ST5**

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 **MANITOU**  
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| Technical characteristics |   | Metric    |                          |
|---------------------------|---|-----------|--------------------------|
| 1.1                       | Manufacturer  |           | MANITOU                  |
| 1.2                       | Model Name  |           | M 70-2 H D ST5           |
| 1.3                       | Power source  |           | Diesel                   |
| 1.4                       | Operator type   |           | Seated                   |
| 1.5                       | Max. capacity   | Q         | 7000 kg                  |
| 1.6                       | Load center of gravity                                  | c         | 600 mm                   |
| 1.8                       | Load distance, centre of drive axle to fork             | x         | 803 mm                   |
| 1.9                       | Wheelbase   | y         | 2493 mm                  |
| Weight                    |   |           |                          |
|                           | Standard mast reference of the machine                  |           | FVD 40                   |
| 2.1                       | Service weight  |           | 9880 kg                  |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)        |           | 14954 kg / 1926 kg       |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)    |           | 4040 kg / 5840 kg        |
| Wheels                    |   |           |                          |
| 3.1                       | Tires type  |           | Pneumatic                |
| 3.2                       | Dimensions of front wheels                              |           | 18R19.5 8T N20XF         |
| 3.3                       | Dimensions of rear wheels                               |           | 265/70R19.5 6T P30HT3    |
| 3.5                       | Number of front wheels / rear wheels                    |           | 2 / 2                    |
| 3.5.2                     | Number of drive wheels                                  |           | 2                        |
| 3.6                       | Front wheel gauge                                       | b10       | 1700 mm                  |
| 3.7                       | Rear wheel gauge  | b11       | 1545 mm                  |
| Dimensions                |   |           |                          |
| 4.7                       | Height of overhead guard (cabin)                        | h6        | 2475 mm                  |
| 4.8                       | Seat height/stand height                                | h7        | 1485 mm                  |
| 4.19                      | Overall length  | l1        | 5700 mm                  |
| 4.20                      | Length to face of forks                                 | l2        | 4200 mm                  |
| 4.21                      | Overall width   | b1        | 2155 mm                  |
| 4.22                      | Forks section x width x length                          | s / e / l | 70 mm x 150 mm / 1500 mm |
| 4.23                      | Fork carriage ISO 2328 (class/form) A/B                 |           | 4A                       |
| 4.24                      | Fork carriage width                                     | b3        | 1750 mm                  |
| 4.31                      | Ground clearance below mast                             | m1        | 300 mm                   |
| 4.32                      | Ground clearance at centre of wheelbase                 | m2        | 410 mm                   |
| 4.33                      | Aisle width for 1000 x 1200 pallet widthways            | Ast       | 6703 mm                  |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways            | Ast       | 6703 mm                  |
| 4.35                      | Turning radius  | Wa        | 4200 mm                  |
| Performances              |   |           |                          |
| 5.1                       | Travel speed (laden / unladen)                          |           | 11 m/s / 23 km/h         |
| 5.2                       | Lifting speed (laden / unladen)                         |           | 0.32 m/s / 0.32 m/s      |
| 5.3                       | Lowering speed (laden / unladen)                        |           | 0.40 m/s / 0.34 m/s      |
| 5.5                       | Drawbar pull (Laden / Unladen)                          |           | 8060 daN / 2930 daN      |
| 5.7                       | Gradeability (laden / unladen)                          |           | 45 % / 27 %              |
| 5.10                      | Service brake   |           | Hydraulic                |
| Engine                    |   |           |                          |
| 7.2                       | I.C. Engine power rating                                |           | 55.40 kW                 |
| 7.1                       | Engine brand / model / norm                             |           | Deutz / TD 3,6 / Stage V |
| 7.3                       | Rated speed   |           | 2500 rpm                 |
| 7.4                       | Number of cylinders                                     |           | 4                        |
| Miscellaneous             |   |           |                          |
| 8.2                       | Working hydraulic pressure for attachments              |           | 230 bar                  |
| 8.3                       | Oil flow rate for attachments                           |           | 80 l/min                 |
| 8.4                       | Sound level at the driver's ear according to DIN 12 053 |           | 78 dB                    |

### M 70-2 H D ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                              | FVD 36 | FVD 40 | FVD 45 |
|---|--------|--------|--------|
| $\alpha$ - Mast/fork carriage tilt, forward               | 15     | 15     | 15     |
| $\beta$ - Mast/fork carriage tilt, backward               | 15     | 15     | 15     |
| h1 - Mast lowered height                                  | 3145   | 3345   | 3595   |
| h3 - Mast lifting height                                  | 3600   |        | 4500   |
| h4 - Mast extended height                                 | 4960   | 5360   | 5860   |
| Residual capacity at max height                           | 7000   | 7000   | 5000   |
| Residual capacity with hooked-on side shift at max height | 6300   | 6350   | 3850   |
| Height at max capacity                                    | 3600   | 4000   | 4000   |



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