

Technical sheet :

# ***TMM 25 4W ST5***

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|       | Technical characteristics                               |           | Metric                               |
|-------|---|-----------|--------------------------------------|
| 1.1   | Manufacturer  |           | MANITOU                              |
| 1.2   | Model Name  |           | TMM 25 4W ST5                        |
| 1.2.1 | Reach out equipment                                     |           | Pantograph                           |
| 1.3   | Power source  |           | Diesel                               |
| 1.4   | Operator type   |           | Seated                               |
| 1.5   | Max. capacity   | Q         | 2500 kg                              |
| 1.6   | Load center of gravity                                  | c         | 500 mm                               |
| 1.8   | Load distance, centre of drive axle to fork             | x         | 500 mm                               |
| 1.9   | Wheelbase   | y         | 1598 mm                              |
|       | <b>Weight</b>   |           |                                      |
|       | Standard mast reference of the machine                  |           | FVD 30                               |
| 2.1   | Service weight  |           | 2500 kg                              |
| 2.2   | Weight on front axle (laden) / rear axle (laden)        |           | 3715 kg / 1285 kg                    |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)    |           | 1215 kg / 1285 kg                    |
|       | <b>Wheels</b>   |           |                                      |
| 3.1   | Tires type  |           | Pneumatic                            |
| 3.2   | Dimensions of front wheels                              |           | 27X10-12 IC30                        |
| 3.3   | Dimensions of rear wheels                               |           | 27X10-12 IC30                        |
| 3.5   | Number of front wheels / rear wheels                    |           | 2 / 1                                |
| 3.5.2 | Drive wheels (front / rear)                             |           | 2 / 1                                |
| 3.6   | Front wheel gauge                                       | b10       | 2143 mm                              |
|       | <b>Dimensions</b>                                       |           |                                      |
| 4.4   | Max. lifting height                                     | h3        | 4200 mm                              |
| 4.7   | Height of overhead guard (cabin)                        | h6        | 2120 mm                              |
| 4.8   | Seat height/stand height                                | h7        | 1070 mm                              |
| 4.19  | Overall length  | l1        | 2638 mm                              |
| 4.21  | Overall width   | b1        | 2398 mm                              |
| 4.22  | Forks section / width / length                          | s / e / l | 40 mm x 122 mm x 1200 mm             |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                 |           | 2A                                   |
| 4.24  | Fork carriage width                                     | b3        | 1260 mm                              |
| 4.26  | Distance between support arms                           | b5        | 1165 mm                              |
| 4.26  | Distance between wheel arms/loading surfaces            | b4        | 1492 mm                              |
| 4.28  | Maximum outreach  |           | 1000 mm                              |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways            | Ast       | 3363 mm                              |
| 4.35  | Turning radius  | Wa        | 2463 mm                              |
|       | <b>Performances</b>                                     |           |                                      |
| 5.1   | Travel speed (laden / unladen)                          |           | 10.60 km/h - 10.70 km/h              |
| 5.2   | Lifting speed (laden / unladen)                         |           | 0.26 m/s / 0.24 m/s                  |
| 5.3   | Lowering speed (laden / unladen)                        |           | 0.38 m/s / 0.24 m/s                  |
| 5.7   | Gradeability (laden / unladen)                          |           | 47 % / 48 %                          |
| 5.9   | Acceleration time (laden / unladen)                     |           | 4.10 s / 2.60 s                      |
| 5.10  | Service brake   |           | Hydraulic brakes by loss of pressure |
|       | Transmission type                                       |           | Hydrostatic                          |
|       | <b>Engine</b>   |           |                                      |
| 7.1   | Engine brand / norm / model                             |           | Kubota - Stage V / D1105-E4B-MNT-2   |
| 7.2   | I.C. Engine power rating                                |           | 18.50 kW                             |
| 7.3   | Rated speed   |           | 3000 rpm                             |
| 7.4   | Number of cylinders / Capacity of cylinders             |           | 3 - 1123 cm³                         |
|       | <b>Miscellaneous</b>                                    |           |                                      |
| 8.1   | Type of drive control                                   |           | Cable                                |
| 8.2   | Working hydraulic pressure for attachments              |           | 190 bar                              |
| 8.3   | Oil flow rate for attachments                           |           | 43 l/min                             |
| 8.4   | Sound level at the driver's ear according to DIN 12 053 |           | 84 dB                                |

## TMM 25 4W ST5 - Dimensional drawing



Characteristics of masts and residual capacities

| Residual Capacity (Maximum Height & LC = 600 mm) | Simple Reach | Full Visibility Duplex (FVD)                   |    | FVD 30 | FVD 36 | FVD 42 |
|--|--------------|--|----|--------|--------|--------|
|  |              | h1 - Mast lowered height                       | mm | 2392   | 2742   | 3092   |
|  |              | h3 - Mast lifting height                       | mm | 3000   | 3600   | 4200   |
|  |              | h4 - Mast extended height                      | mm | 4495   | 5095   | 5695   |
|  | Double Reach | Pantograph reach in                            | kg | 2500   | 2500   | 2500   |
|  |              | Pantograph reach out with stabilizers          | kg | 2050   | 2050   |        |
|  |              | Pantograph reach out without stabilizers       | kg | 1150   | 1100   |        |
|  |              | Telescopic forks reach in                      | kg | 2500   | 2500   |        |
|  |              | Telescopic Forks reach out with stabilizers    | kg | 1350   | 1300   |        |
|  |              | Telescopic Forks reach out without stabilizers | kg | 1200   | 1150   |        |
|  |              | Pantograph & TF reach in                       | kg | 2500   | 2500   |        |
|  |              | Pantograph & TF reach out with stabilizers     | kg | 1100   | 1100   |        |
|  |              | Pantograph & TF reach out without stabilizers  | kg | 550    | 550    |        |



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