Technical sheet:

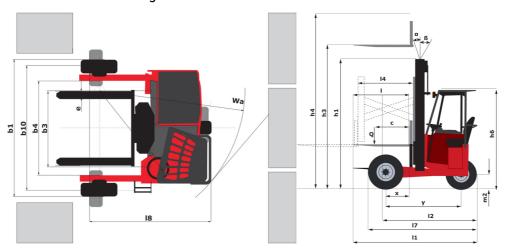
## **TMM 20 4W ST5**





|       |   | TMM 20 4W ST5          | Created on April 29, 2024 at 3:30:54 AM UT |
|-------|---|------------------------|--|
|       | Technical characteristics                               |                        | Metric                                     |
| 1.1   | Manufacturer  |                        | MANITOU                                    |
| 1.2   | Model Name  |                        | TMM 20 4W ST5                              |
| 1.2.1 | Reach out equipment                                     |                        | Pantograph                                 |
| 1.3   | Power source  |                        | Diesel                                     |
| 1.4   | Operator type   |                        | Seated                                     |
| 1.5   | Max. capacity   | Q                      | 2000 kg                                    |
| 1.6   | Load center of gravity                                  | c                      | 500 mm                                     |
| 1.8   | Load distance, centre of drive axle to fork             | х                      | 500 mm                                     |
| 1.9   | Wheelbase   | ٧                      | 1598 mm                                    |
|       | Weight  | , in the second second |  |
| 2.1   | Service weight  |                        | 2450 kg                                    |
| 2.2   | Weight on front axle (laden) / rear axle (laden)        |                        | 3180 kg / 1270 kg                          |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)    |                        | 1180 kg / 1270 kg                          |
| 2.0   | Wheels  |                        | 1100 kg / 1270 kg                          |
| 3.1   | Tires type  |                        | Pneumatic                                  |
| 3.2   | Dimensions of front wheels                              |                        | 27X10-12 IC30                              |
| 3.3   | Dimensions of rear wheels                               |                        | 27X10 12 1030<br>27X10-12 IC30             |
| 3.5   | Number of front wheels / rear wheels                    |                        | 2/1  |
| 3.5.2 |   |                        | 2/1  |
|       | Drive wheels (front / rear)  Front wheel gauge          | h10                    |  |
| 3.6   |   | b10                    | 2095 mm                                    |
| 4.7   | Dimensions  Uninth of produced ground (solvin)          | hc                     | 2080 mm                                    |
| 4.7   | Height of overhead guard (cabin)                        | h6                     |  |
| 4.8   | Seat height/stand height                                | h7                     | 1030 mm                                    |
| 4.19  | Overall length  | l1                     | 2598 mm                                    |
| 4.21  | Overall width   | b1                     | 2315 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 m                                     |
| 4.25  | Distance between support arms                           | b4                     | 1165 mm                                    |
| 4.26  | Distance between wheel arms/loading surfaces            | b4                     | 1492 mm                                    |
| 4.28  | Maximum horizontal extension at COG 600                 | 14                     | 1000 mm                                    |
| 4.32  | Ground clearance at centre of wheelbase                 | m2                     | 231 mm                                     |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways            | Ast                    | 3363 mm                                    |
| 4.35  | Turning radius  | Wa                     | 2463 mm                                    |
|       | Performances  |                        |  |
| 5.1   | Travel speed (laden / unladen)                          |                        | 9.40 km/h - 9.50 km/h                      |
| 5.2   | Lifting speed (laden / unladen)                         |                        | 0.26 m/s / 0.24 m/s                        |
| 5.5   | Nominal pulling force (laden)                           |                        | 2450                                       |
| 5.3   | Lowering speed (laden / unladen)                        |                        | 0.38 m/s / 0.24 m/s                        |
| 5.7   | Gradeability (laden / unladen)                          |                        | 47 % / 48 %                                |
| 5.10  | Service brake   |                        | Hydraulic brakes by loss of pressure       |
| 5.9   | Acceleration time (laden / unladen)                     |                        | 4.10 s / 2.60 s                            |
| 5.11  | Transmission type                                       |                        | Hydrostatic                                |
|       | Engine  |                        |  |
| 7.1   | Engine brand / norm                                     |                        | Kubota - Stage V                           |
| 7.2   | Engine power according to ISO 1585                      |                        | 18.50 kW                                   |
| 7.3   | Rated speed   |                        | 3000 rpm                                   |
| 7.4   | Number of cylinders / Capacity of cylinders             |                        | 3 - 1123 cm³                               |
|       | Miscellaneous   |                        |  |
| 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 20 4W ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

|  |                 | Full Visibility Duplex (FVD)                   |    | FVD 30 | FVD 36 |
|--|-----------------|--|----|--------|--------|
|  |                 | h1 - Mast lowered height                       | mm | 2352   | 2702   |
|  |                 | h3 - Mast lifting height                       | mm | 3000   | 3600   |
|  |                 | h4 - Mast extended height                      | mm | 4455   | 5055   |
| nt &                                       | Simple Reach    | Pantograph reach in                            | kg | 2000   | 2000   |
| leigh                                      |                 | Pantograph reach out with stabilizers          | kg | 1750   | 1750   |
| E  |                 | Pantograph reach out without stabilizers       | kg | 1100   | 1050   |
| m (iii                                     |                 | Telescopic forks reach in                      | kg | 2000   | 2000   |
| Max<br>0 m                                 |                 | Telescopic Forks reach out with stabilizers    | kg | 1300   | 1300   |
| Capacity (Maximum Height &<br>LC = 600 mm) |                 | Telescopic Forks reach out without stabilizers | kg | 1150   | 1100   |
|  | Double<br>Reach | Pantograph & TF reach in                       | kg | 2000   | 2000   |
| Residual                                   |                 | Pantograph & TF reach out with stabilizers     | kg | 1100   | 1100   |
| Res  |                 | Pantograph & TF reach out without stabilizers  | kg | 550    | 550    |





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