Technical sheet:

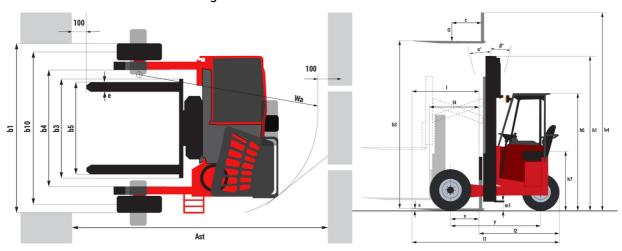
## **TMM 20 4W ST5**





|       |   | TMM 20 4W ST5          | Freated on June 17, 2025 at 1:43 AM  |
|-------|---|------------------------|--------------------------------------|
|       | Technical characteristics                               |                        | Metric                               |
| 1.1   | Manufacturer  |                        | MANITOU                              |
| 1.2   | Model Name  |                        | TMM 20 4W ST5                        |
| .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                                  | С                      | 500 mm                               |
| 1.8   | Load distance, centre of drive axle to fork             | х                      | 500 mm                               |
| 1.9   | Wheelbase   | у                      | 1598 mm                              |
|       | Weight  | , in the second second |                                      |
|       | Standard mast reference of the machine                  |                        | FVD 30                               |
| 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 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                              |
| 3.0   | Dimensions  | B10                    | 2143 111111                          |
| 4.4   | Max. lifting height                                     | h3                     | 4200 mm                              |
| 4.4   |   | h6                     | 2120 mm                              |
|       | Height of overhead guard (cabin)                        | h7                     | 1070 mm                              |
| 4.8   | Seat height/stand height  Overall length                | 117                    | 2638 mm                              |
| 4.19  | -   |                        |                                      |
| 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                 | ho.                    | 2A                                   |
| 4.24  | Fork carriage width                                     | b3                     | 1260 m                               |
| 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                              |
|       | 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                  |
| 5.3   | 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                          |
|       | Engine  |                        |                                      |
| 7.1   | Engine brand / norm / model                             |                        | Kubota - Stage V / D1105-E4B-MNT-2   |
| 7.2   | I.C. Engine power rating / Power                        |                        | 18.50 kW / 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)                   |    |
|---|-----------------|--|----|
|   |                 | h1 - Mast lowered height                       | mm |
|   |                 | h3 - Mast lifting height                       | mm |
|   |                 | h4 - Mast extended height                      | mm |
| ıt &  | ے               | Pantograph reach in                            | kg |
| leigh   |                 | Pantograph reach out with stabilizers          | kg |
| 늍   | keac            | Pantograph reach out without stabilizers       | kg |
| Ē.  | Simple Reach    | Telescopic forks reach in                      | kg |
| Мау<br>п  |                 | Telescopic Forks reach out with stabilizers    | kg |
| Residual Capacity (Maximum Height &<br>LC = 600 mm) |                 | Telescopic Forks reach out without stabilizers | kg |
| Ca  | Double<br>Reach | Pantograph & TF reach in                       | kg |
| idua  |                 | Pantograph & TF reach out with stabilizers     | kg |
| Res   |                 | Pantograph & TF reach out without stabilizers  | kg |

| FVD 30 | FVD 36 | FVD 42 |
|--------|--------|--------|
| 2352   | 2702   | 3090   |
| 3000   | 3600   | 4200   |
| 4455   | 5055   | 5695   |
| 2000   | 2000   | 2500   |
| 1750   | 1750   |        |
| 1100   | 1050   |        |
| 2000   | 2000   |        |
| 1300   | 1300   |        |
| 1150   | 1100   |        |
| 2000   | 2000   |        |
| 1100   | 1100   |        |
| 550    | 550    |        |





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