Technical sheet:

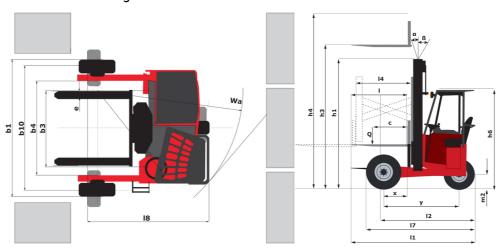
## **TMM 20 ST5**





|            |   | TMM 20 ST5 | Created on 28 April 2024 at 20:21:59 UTC |
|------------|---|------------|--|
|            | Technical characteristics   |            | Metric                                   |
| 1.1        | Manufacturer  |            | MANITOU                                  |
| 1.2        | Model Name  |            | TMM 20 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          | 490 mm                                   |
| 1.9        | Wheelbase   | V          | 1598 mm                                  |
|            | Weight  |            |  |
| 2.1        | Service weight  |            | 2290 kg                                  |
| 2.2        | Weight on front axle (laden) / rear axle (laden)                            |            | 3050 kg / 1240 kg                        |
| 2.3        | Weight on front axle (Unladen) / rear axle (Unladen)                        |            | 1050 kg / 1240 kg                        |
| 2.0        | Wheels  |            | 1000 kg / 1210 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        | 2151 mm                                  |
| 3.0        | Dimensions  | B10        | 2131 11111                               |
| 4.7        | Height of overhead guard (cabin)  | h6         | 2120 mm                                  |
| 4.8        | Seat height/stand height  | h7         | 1070 mm                                  |
| 4.19       | Overall length  | 11         | 2650 mm                                  |
| 4.21       | Overall width   | b1         | 2406 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                                     | 3/6/1      | 2A                                       |
| 4.24       | Fork carriage width   | b3         | 1260 mm                                  |
| 4.25       | Distance between support arms   | b4         | 1165 mm                                  |
| 4.26       | Distance between support aims  Distance between wheel arms/loading surfaces | b4         | 1600 mm                                  |
| 4.28       | Maximum horizontal extension at COG 600                                     | 14         | 1000 mm                                  |
| 4.32       | Ground clearance at centre of wheelbase                                     | m2         | 272 mm                                   |
| 4.34       | Aisle width for 800 x 1200 pallet lengthways                                | Ast        | 3363 mm                                  |
| 4.35       | Tuming radius   | Wa         | 2463 mm                                  |
| 4.55       | Performances  | vva        | 2403 11111                               |
| 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)   |            | 2200                                     |
| 5.3        | Lowering speed (laden / unladen)  |            | 0.38 m/s / 0.24 m/s                      |
| 5.7        | Gradeability (laden / unladen)  |            | 56 % / 51 %                              |
| 5.10       | Service brake   |            | Hydraulic brakes by loss of pressure     |
| 5.9        | Acceleration time (laden / unladen)   |            | 4.10 s / 2.60 s                          |
| 5.11       |   |            | Hydrostatic                              |
| J. 1 I     | Transmission type  Engine   |            | Tryulosidiic                             |
| 7.1        | Engine brand / norm   |            | Vuhoto Storio V                          |
| 7.1<br>7.2 | Engine brand / norm Engine power according to ISO 1585                      |            | Kubota - Stage V<br>18.50 kW             |
| 7.2        | Rated speed   |            | 3000 rpm                                 |
|            | Number of cylinders / Capacity of cylinders                                 |            |  |
| 7.4        |   |            | 3 - 1123 cm³                             |
| 0.1        | Miscellaneous   |            | Cabla                                    |
| 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 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   |
| Ē  |                 | Pantograph reach out without stabilizers       | kg | 1050   | 1050   |
| iĝ<br>(E                                   |                 | Telescopic forks reach in                      | kg | 2000   | 2000   |
| Ма)<br>00 гг                               |                 | Telescopic Forks reach out with stabilizers    | kg | 1300   | 1300   |
| Capacity (Maximum Height &<br>LC = 600 mm) |                 | Telescopic Forks reach out without stabilizers | kg | 1100   | 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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