

Technical sheet :

# M 50-4

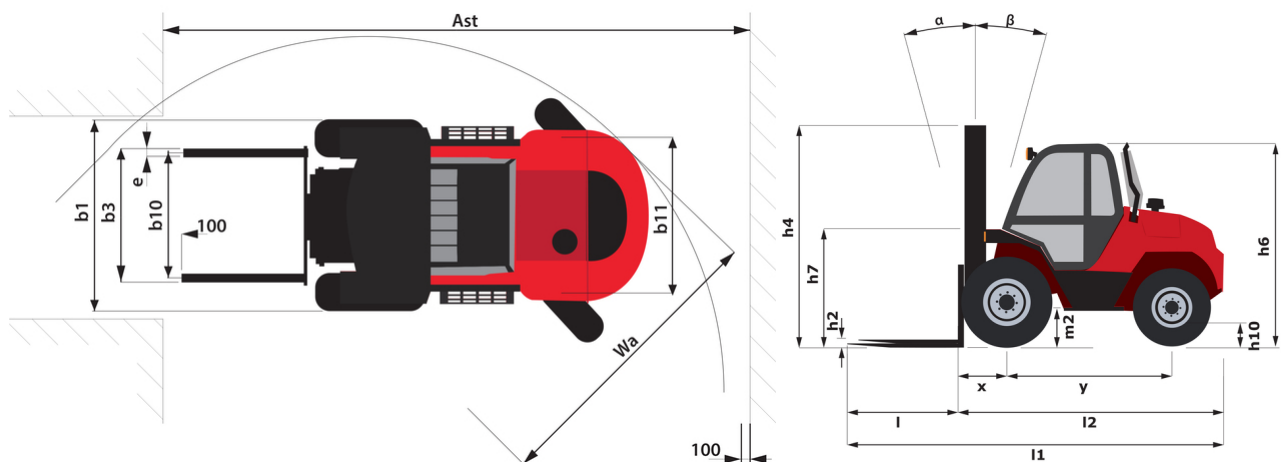
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 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                               |           | Metric                   | Imperial               |
|-------|---------------------------------------------------------|-----------|--------------------------|------------------------|
| 1.1   | Manufacturer                                            |           | Manitou                  | Manitou                |
| 1.2   | Model Name                                              |           | M 50-4                   | M 50-4                 |
| 1.3   | Power source                                            |           | Diesel                   | Diesel                 |
| 1.4   | Operator type                                           |           | Seated                   | Seated                 |
| 1.5   | Max. capacity                                           | Q         | 5000 kg                  | 11023 lb               |
| 1.6   | Load center of gravity                                  | c         | 600 mm                   | 24 in                  |
| 1.8   | Load distance, centre of drive axle to fork             | x         | 773 mm                   | 30 in                  |
| 1.9   | Wheelbase                                               | y         | 2120 mm                  | 83 in                  |
|       | Weight                                                  |           |                          |                        |
| 2.1   | Service weight                                          |           | 8325 kg                  | 18353 lb               |
| 2.2   | Weight on front axle (laden) / rear axle (laden)        |           | 11520 kg / 1805 kg       | 25397 lb / 3979 lb     |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)    |           | 3285 kg / 5040 kg        | 7242 lb / 11111 lb     |
|       | Wheels                                                  |           |                          |                        |
| 3.1   | Tires type                                              |           | Pneumatic                | Pneumatic              |
| 3.2   | Dimensions of front wheels                              |           | 18-22,5 MPT06            | 18-22,5 MPT06          |
| 3.3   | Dimensions of rear wheels                               |           | 340/80 R18 XMCL          | 340/80 R18 XMCL        |
| 3.5   | Number of front wheels / rear wheels                    |           | 2 / 2                    | 2 / 2                  |
| 3.5.2 | Number of drive wheels                                  |           | 4                        | 4                      |
| 3.6   | Front wheel gauge                                       | b10       | 1620 mm                  | 64 in                  |
| 3.7   | Rear wheel gauge                                        | b11       | 1740 mm                  | 69 in                  |
|       | Dimensions                                              |           |                          |                        |
| 4.7   | Height of overhead guard (cabin)                        | h6        | 1500 mm                  | 59 in                  |
| 4.8   | Seat height/stand height                                | h7        | 1400 mm                  | 55 in                  |
| 4.19  | Overall length                                          | l1        | 4948 mm                  | 195 in                 |
| 4.20  | Length to face of forks                                 | l2        | 3748 mm                  | 148 in                 |
| 4.21  | Overall width                                           | b1        | 2080 mm                  | 82 in                  |
| 4.22  | Forks section x width x length                          | s / e / l | 60 mm x 150 mm / 1200 mm | 2 in x 6 in / 47 in    |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                 |           | 4A                       | 4A                     |
| 4.24  | Fork carriage width                                     | b3        | 1670 mm                  | 66 in                  |
| 4.31  | Ground clearance below mast                             | m1        | 295 mm                   | 12 in                  |
| 4.32  | Ground clearance at centre of wheelbase                 | m2        | 380 mm                   | 15 in                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways            | Ast       | 6812 mm                  | 268 in                 |
| 4.35  | Turning radius                                          | Wa        | 4640 mm                  | 183 in                 |
|       | Performances                                            |           |                          |                        |
| 5.1   | Travel speed (laden / unladen)                          |           | 10 km/h / 24 km/h        | 6 mph / 15 mph         |
| 5.2   | Lifting speed (laden / unladen)                         |           | 0.40 m/s / 0.40 m/s      | 1 ft/s / 1 ft/s        |
| 5.3   | Lowering speed (laden / unladen)                        |           | 0.40 m/s / 0.30 m/s      | 1 ft/s / 0.98 ft/s     |
| 5.5   | Drawbar pull (Laden)                                    |           | 1020 daN                 | 1020 daN               |
| 5.10  | Service brake                                           |           | Hydraulic                | Hydraulic              |
|       | Engine                                                  |           |                          |                        |
| 7.2   | Engine power according to ISO 1585                      |           | 55 kW                    | 55 kW                  |
| 7.1   | Engine brand / model                                    |           | Perkins / 854F-E34T WF   | Perkins / 854F-E34T WF |
| 7.2   | Engine power according to ISO 1585                      |           | 55 kW                    | 55 kW                  |
| 7.3   | Rated speed                                             |           | 2200 rpm                 | 2200 rpm               |
| 7.4   | Number of cylinders                                     |           | 4                        | 4                      |
|       | Miscellaneous                                           |           |                          |                        |
| 8.2   | Working hydraulic pressure for attachments              |           | 230 bar                  | 3336 PSI               |
| 8.3   | Oil flow rate for attachments                           |           | 97 l/min                 | 26 US gpm              |
| 8.4   | Sound level at the driver's ear according to DIN 12 053 |           | 76 dB                    | 76 dB                  |

## M 50-4 - Dimensional drawing



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