

Technical sheet :

# M 50-4

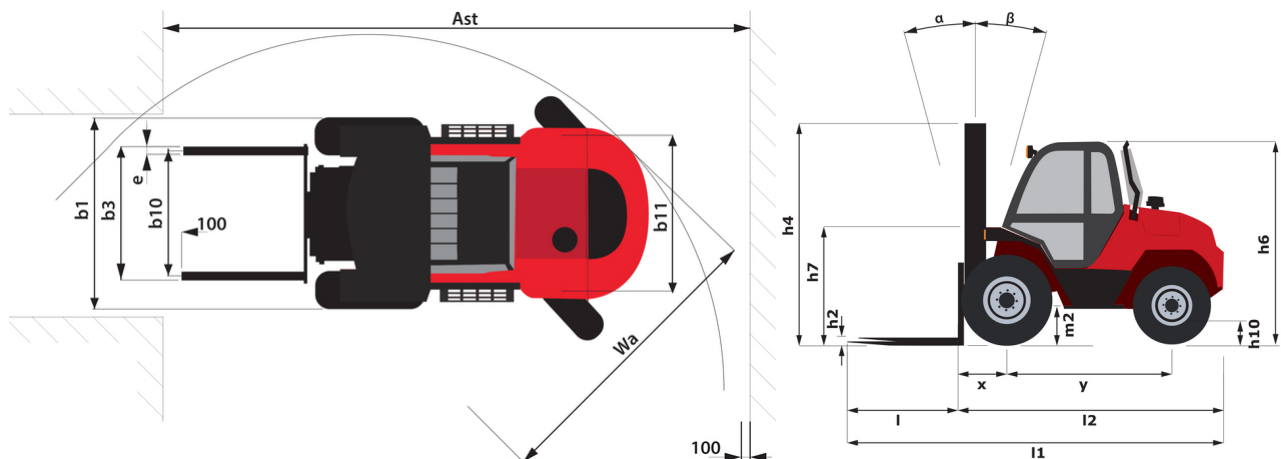
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 **MANITOU**  
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|       | Technical characteristics                               |           | Metric                              | Imperial                            |
|-------|---------------------------------------------------------|-----------|-------------------------------------|-------------------------------------|
| 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                               |
|       | <b>Weight</b>                                           |           |                                     |                                     |
|       | Standard mast reference of the machine                  |           | FVD 37                              | FVD 37                              |
| 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                  |
|       | <b>Wheels</b>                                           |           |                                     |                                     |
| 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                               |
|       | <b>Dimensions</b>                                       |           |                                     |                                     |
| 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                              |
|       | <b>Performances</b>                                     |           |                                     |                                     |
| 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                           |
|       | Transmission type                                       |           | Torque converter                    | Torque converter                    |
|       | <b>Engine</b>                                           |           |                                     |                                     |
| 7.1   | Engine brand / model / norm                             |           | Perkins / 854F-E34T WF / Stage IIIB | Perkins / 854F-E34T WF / Stage IIIB |
| 7.2   | I.C. Engine power rating                                |           | 55 kW                               | 55 kW                               |
| 7.3   | Rated speed                                             |           | 2200 rpm                            | 2200 rpm                            |
| 7.4   | Number of cylinders                                     |           | 4                                   | 4                                   |
|       | <b>Miscellaneous</b>                                    |           |                                     |                                     |
| 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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