

Technical sheet :

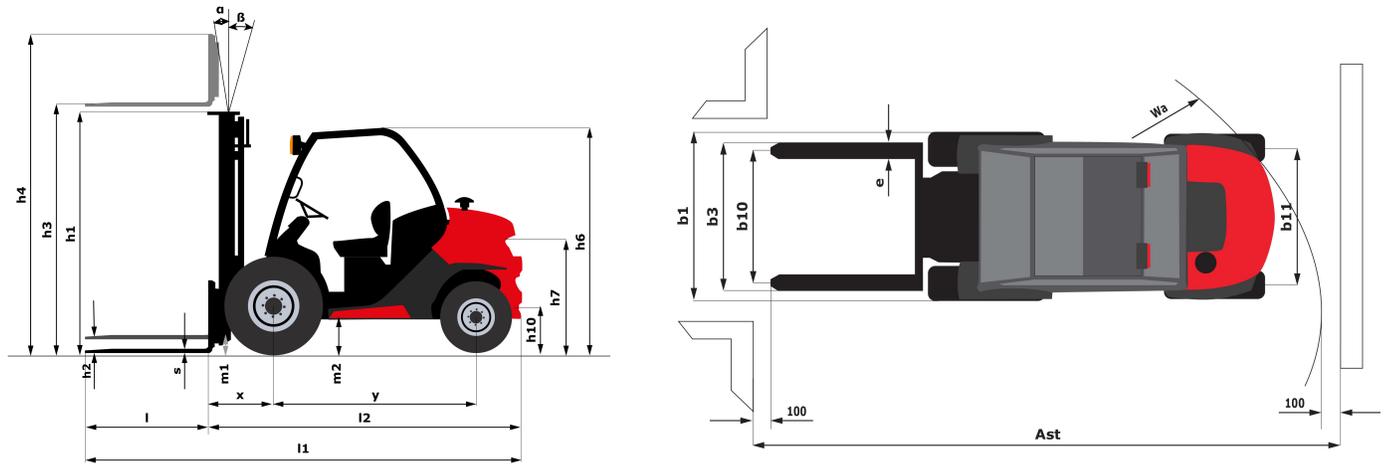
# **MC 18-4 ST5**

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|       | Technical characteristics                                       |                  | Metric                               |
|-------|---|------------------|--------------------------------------|
| 1.1   | Manufacturer  |                  | Manitou                              |
| 1.2   | Model Name  |                  | MC 18-4 ST5                          |
| 1.3   | Power source  |                  | Diesel                               |
| 1.4   | Operator type   |                  | Seated                               |
| 1.5   | Max. capacity   | Q                | 1800 kg                              |
| 1.6   | Load centre of gravity  | c                | 500 mm                               |
| 1.8   | Load distance, centre of drive axle to fork                     | x                | 616 mm                               |
| 1.9   | Wheelbase   | y                | 1900 mm                              |
|       | <b>Weight</b>   |                  |                                      |
| 2.1   | Service weight  |                  | 3590 kg                              |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |                  | 4670 kg / 720 kg                     |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |                  | 1660 kg / 1930 kg                    |
|       | <b>Wheels</b>   |                  |                                      |
| 3.1   | Tyres type  |                  | Pneumatic                            |
| 3.2   | Dimensions of front wheels                                      |                  | 12,5/80-18/12 SL R4                  |
| 3.3   | Dimensions of rear wheels                                       |                  | 27x10-12 SKS                         |
| 3.5   | Number of front wheels / rear wheels                            |                  | 2 / 2                                |
| 3.5.2 | Number of drive wheels  |                  | 4                                    |
| 3.6   | Front wheel gauge   | b10              | 1159 mm                              |
| 3.7   | Rear wheel gauge  | b11              | 1176 mm                              |
|       | <b>Dimensions</b>   |                  |                                      |
| 4.1   | Tilt of Mast Forward (deg) / Backward (deg)                     | $\alpha / \beta$ | 12 / 10                              |
| 4.7   | Height of overhead guard (cabin)                                | h6               | 2155 mm                              |
| 4.7   | Overall height of low overhead guard (Buggie version)           | h6*              | 1990 mm                              |
| 4.8   | Seat height/stand height  | h7               | 1094 mm                              |
| 4.19  | Overall length  | l1               | 4100 mm                              |
| 4.20  | Length to face of forks   | l2               | 2950 mm                              |
| 4.21  | Overall width   | b1               | 1450 mm                              |
| 4.22  | Forks section / width / length                                  | s / e / l        | 35 mm x 100 mm / 1150 mm             |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |                  | FEM 2A                               |
| 4.24  | Fork carriage width   | b3               | 1260 mm                              |
| 4.31  | Ground clearance below mast                                     | m1               | 300 mm                               |
| 4.32  | Ground clearance at centre of wheelbase                         | m2               | 310 mm                               |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast              | 5336 mm                              |
| 4.35  | Turning radius  | Wa               | 3370 mm                              |
|       | <b>Performances</b>   |                  |                                      |
| 5.1   | Travel speed (laden / unladen)                                  |                  | 12 km/h / 23.50 km/h                 |
| 5.2   | Lifting speed (laden / unladen)                                 |                  | 0.44 m/s / 0.44 m/s                  |
| 5.3   | Lowering speed (laden / unladen)                                |                  | 0.40 m/s / 0.40 m/s                  |
| 5.5   | Drawbar pull (Laden)  |                  | 1800 daN                             |
| 5.7   | Gradeability (laden)  |                  | 35 %                                 |
| 5.10  | Service brake   |                  | Hydraulic brakes by loss of pressure |
|       | <b>Engine</b>   |                  |                                      |
| 7.1   | Engine brand / model / norm                                     |                  | Kubota / D1803 CR E5B / Stage V      |
| 7.2   | Engine power according to ISO 1585                              |                  | 27 kW                                |
| 7.3   | Rated speed   |                  | 2700 rpm                             |
| 7.4   | Number of cylinders / Capacity of cylinders                     |                  | 3 - 1826 cm <sup>3</sup>             |
| 7.5   | Fuel consumption according to VDI cycle                         |                  | 3.68 l/h                             |
|       | <b>Miscellaneous</b>  |                  |                                      |
| 8.1   | Type of drive control   |                  | Electronic                           |
| 8.2   | Working hydraulic pressure for attachments                      |                  | 160 Bar                              |
| 8.3   | Oil flow rate for attachments                                   |                  | 31 l/min                             |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |                  | < 80 dB(A)                           |

## Dimensional drawing

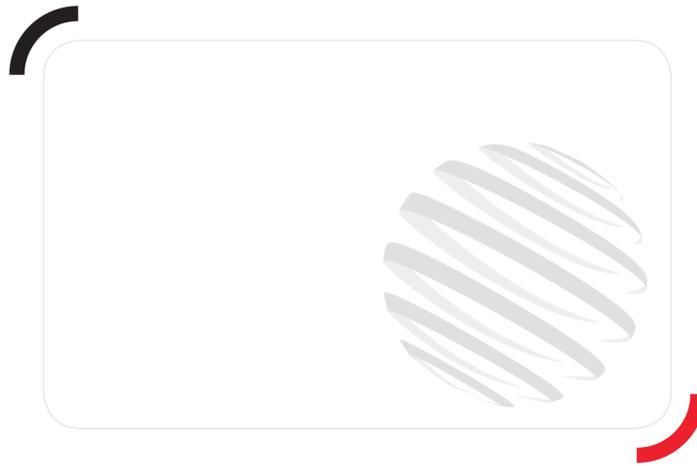


## Characteristics of masts and residual capacities

| Full Visibility Duplex  |    | FVD 33  | FVD 37  | FVD 40  | FVD 45  |
|---|----|---------|---------|---------|---------|
| h2 - Free lift  | mm | 85      | 85      | 85      | 85      |
| h1 - Height mast lowered *  | mm | 2348    | 2608    | 2798    | 3048    |
| h3 - Lifting Height   | mm | 3300    | 3700    | 4000    | 4500    |
| h4 - Height mast extended *   | mm | 4018    | 4428    | 4768    | 5268    |
| α / β - Mast inclination (front / rear)                             | °  | 12 / 10 | 12 / 10 | 12 / 10 | 12 / 10 |
| Residual capacity without attachment (Industrial load chart)        | kg | 1800    | 1800    |         | 1100    |
| Residual capacity with hooked-on side shift (Industrial load chart) | kg | 1800    | 1800    |         | 1100    |
| Height at max capacity  | mm | 3300    | 3700    |         | 3600    |
| Height at max capacity with hooked-on sideshift                     | mm | 3300    | 3700    |         | 3600    |

| Free Lift Triplex   |    | FLT 37  | FLT 43  | FLT 47  | FLT 55 |
|---|----|---------|---------|---------|--------|
| h2 - Free lift  | mm | 1305    | 1505    | 1655    | 1915   |
| h1 - Height mast lowered *  | mm | 1998    | 2198    | 2348    | 2608   |
| h3 - Lifting Height   | mm | 3700    | 4300    | 4700    | 5500   |
| h4 - Height mast extended *   | mm | 4453    | 5053    | 5453    | 6253   |
| α / β - Mast inclination (front / rear)                             | °  | 12 / 10 | 12 / 10 | 12 / 10 | 6 / 6  |
| Residual capacity without attachment (Industrial load chart)        | kg | 1600    | 1000    | 600     |        |
| Residual capacity with hooked-on side shift (Industrial load chart) | kg | 1550    | 1000    | 600     |        |
| Height at max capacity  | mm | 3400    | 3400    | 3400    |        |
| Height at max capacity with hooked-on sideshift                     | mm | 3300    | 3400    | 3400    |        |

| Full Visibility Triplex   |    | FVT 33  |
|---|----|---------|
| h2 - Free lift  | mm | 135     |
| h1 - Height mast lowered *  | mm | 1888    |
| h3 - Lifting Height   | mm | 3300    |
| h4 - Height mast extended *   | mm | 4048    |
| α / β - Mast inclination (front / rear)                             | °  | 12 / 10 |
| Residual capacity without attachment (Industrial load chart)        | kg | 1800    |
| Residual capacity with hooked-on side shift (Industrial load chart) | kg | 1800    |
| Height at max capacity  | mm | 3300    |
| Height at max capacity with hooked-on sideshift                     | mm | 3300    |



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