

Technical sheet :

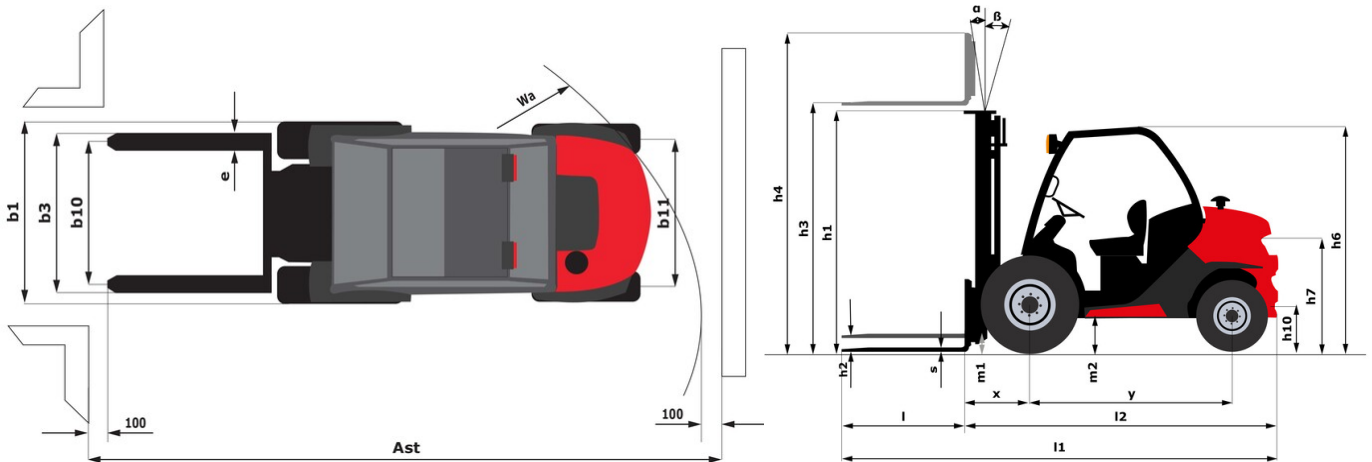
# **MC 25-4 ST5**

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| Technical characteristics |  | Imperial  |                                      |
|---------------------------|--|-----------|--------------------------------------|
| 1.1                       | Manufacturer   |           | Manitou                              |
| 1.2                       | Model Name   |           | MC 25-4 ST5                          |
| 1.3                       | Power source   |           | Diesel                               |
| 1.4                       | Operator type  |           | Seated                               |
| 1.5                       | Max. capacity  | Q         | 5512 lb                              |
| 1.6                       | Load center of gravity   | c         | 20 in                                |
| 1.8                       | Load distance, centre of drive axle to fork  | x         | 24 in                                |
| 1.9                       | Wheelbase  | y         | 75 in                                |
| Weight                    |  |           |                                      |
|                           | Standard mast reference of the machine   |           | FVD 33                               |
| 2.1                       | Service weight   |           | 9458 lb                              |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)   |           | 13162 lb / 1808 lb                   |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)                                     |           | 3924 lb / 5534 lb                    |
| Wheels                    |  |           |                                      |
| 3.1                       | Tires 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       | 46 in                                |
| 3.7                       | Rear wheel gauge   | b11       | 46 in                                |
| Dimensions                |  |           |                                      |
| 4.7                       | Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version) | h6 / h6*  | 85 in / 78 in                        |
| 4.8                       | Seat height/stand height   | h7        | 43 in                                |
| 4.19                      | Overall length   | l1        | 165 in                               |
| 4.20                      | Length to face of forks  | l2        | 120 in                               |
| 4.21                      | Overall width  | b1        | 57 in                                |
| 4.22                      | Forks section x width x length   | s / e / l | 2 in x 4 in / 47 in                  |
| 4.23                      | Fork carriage ISO 2328 (class/form) A/B  |           | 2A                                   |
| 4.24                      | Fork carriage width  | b3        | 50 in                                |
| 4.31                      | Ground clearance below mast  | m1        | 12 in                                |
| 4.32                      | Ground clearance at centre of wheelbase  | m2        | 12 in                                |
| 4.35                      | Turning radius   | Wa        | 11171 ft 3 in                        |
| Performances              |  |           |                                      |
| 5.1                       | Travel speed (laden / unladen)   |           | 7 mph / 15 mph                       |
| 5.2                       | Lifting speed (laden / unladen)  |           | 2 ft/s / 2 ft/s                      |
| 5.3                       | Lowering speed (laden / unladen)   |           | 2 ft/s / 0.98 ft/s                   |
| 5.5                       | Drawbar pull (Laden)   |           | 3100 daN                             |
| 5.7                       | Gradeability (laden)   |           | 51 %                                 |
| 5.10                      | Service brake  |           | Hydraulic brakes by loss of pressure |
| Engine                    |  |           |                                      |
| 7.2                       | I.C. Engine power rating   |           | 37 kW                                |
| 7.1                       | Engine brand / model / norm  |           | Kubota / D1803 CRT E5B / Stage V     |
| 7.3                       | Rated speed  |           | 2700 rpm                             |
| 7.4                       | Number of cylinders / Capacity of cylinders  |           | 3 - 111 in³                          |
| Miscellaneous             |  |           |                                      |
| 8.1                       | Type of drive control  |           | Electronic                           |
| 8.2                       | Working hydraulic pressure for attachments   |           | 2901 PSI                             |
| 8.3                       | Oil flow rate for attachments  |           | 11 US gpm                            |

MC 25-4 ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                              |    | FVD 33 | FVD 37 | FVD 45 |  |  |
|---|----|--------|--------|--------|--|--|
| α - Mast/fork carriage tilt, forward                      | °  | 12     | 12     | 12     |  |  |
| β - Mast/fork carriage tilt, backward                     | °  | 10     | 10     | 10     |  |  |
| h1 - Mast lowered height                                  | in | 92     | 102.3  | 119.6  |  |  |
| h2 - Mast free lift                                       | in | 4.4    | 4.4    | 4.4    |  |  |
| h3 - Mast lifting height                                  | in | 129.9  | 145.7  | 177.2  |  |  |
| h4 - Mast extended height                                 | in | 161    | 176.8  | 208.3  |  |  |
| Residual capacity at max height                           | lb | 5512   | 3197   | 1764   |  |  |
| Residual capacity with hooked-on side shift at max height | lb | 5512   | 3197   | 1764   |  |  |
| Height at max capacity                                    | in | 118.1  | 118.1  | 118.1  |  |  |
| Height at max capacity with hooked-on sideshift           | in | 118.1  | 118.1  | 118.1  |  |  |

| Free Lift Triplex (FLT)                                   |    | FLT 34 | FLT 37 | FLT 40 | FLT 43 | FLT 47 | FLT 55 |
|---|----|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                      | °  | 12     | 12     | 12     | 12     | 12     | 6      |
| β - Mast/fork carriage tilt, backward                     | °  | 10     | 10     | 10     | 10     | 10     | 6      |
| h1 - Mast lowered height                                  | in | 78.3   | 82.2   | 86.1   | 92     | 96     | 109.8  |
| h2 - Mast free lift                                       | in | 47.6   | 51.6   | 55.5   | 59.4   | 65.4   | 75.6   |
| h3 - Mast lifting height                                  | in | 133.9  | 145.7  | 157.5  | 169.3  | 185    | 216.5  |
| h4 - Mast extended height                                 | in | 166.8  | 178.6  | 190.4  | 203.5  | 218    | 252.3  |
| Residual capacity at max height                           | lb | 4189   | 3307   | 2976   | 1764   | 1543   | 1102   |
| Residual capacity with hooked-on side shift at max height | lb | 3968   | 3197   | 2976   | 1543   | 1543   | 11023  |
| Height at max capacity                                    | in | 118.1  | 114.2  | 118.1  | 118.1  | 118.1  | 118.1  |
| Height at max capacity with hooked-on sideshift           | in | 118.1  | 118.1  | 118.1  | 118.1  | 118.1  | 118.1  |

| Full Visibility Triplex (FVT)         |    | FVT 33 |
|---------------------------------------|----|--------|
| α - Mast/fork carriage tilt, forward  | °  | 12     |
| β - Mast/fork carriage tilt, backward | °  | 10     |
| h1 - Mast lowered height              | in | 73.9   |
| h2 - Mast free lift                   | in | 4.9    |
| h3 - Mast lifting height              | in | 129.9  |
| h4 - Mast extended height             | in | 160.6  |
| Height at max capacity                | in | 98.4   |



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