

Technical sheet :

# ME 425C



 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Metric    |                          |
|---------------------------|---|-----------|--------------------------|
| 1.1                       | Manufacturer  |           | Manitou                  |
| 1.2                       | Model Name  |           | ME 425C                  |
| 1.3                       | Power source  |           | Electrical - Lead        |
| 1.4                       | Operator type   |           | Seated                   |
| 1.5                       | Max. capacity   | Q         | 2500 kg                  |
| 1.6                       | Load center of gravity  | c         | 500 mm                   |
| 1.8                       | Load distance, centre of drive axle to fork                     | x         | 448 mm                   |
| 1.9                       | Wheelbase   | y         | 1485 mm                  |
| Weight                    |   |           |                          |
| 2.1                       | Service weight  |           | 4300 kg                  |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)                |           | 6060 kg / 740 kg         |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1960 kg / 2340 kg        |
| Wheels                    |   |           |                          |
| 3.1                       | Tires type  |           | Solid tires              |
| 3.2                       | Dimensions of front wheels                                      |           | 23 x 9-10                |
| 3.3                       | Dimensions of rear wheels                                       |           | 18 x 7-8                 |
| 3.5                       | Number of front wheels / rear wheels                            |           | 2 / 2                    |
| 3.5.2                     | Number of drive wheels  |           | 2                        |
| 3.6                       | Front wheel gauge   | b10       | 1058 mm                  |
| 3.7                       | Rear wheel gauge  | b11       | 960 mm                   |
| Dimensions                |   |           |                          |
| 4.8                       | Seat height/stand height  | h7        | 1070 mm                  |
| 4.7                       | Height of overhead guard (cabin)                                | h6        | 2155 mm                  |
| 4.12                      | Height of towing bar (coupling height)                          | h10       | 303 mm                   |
| 4.19                      | Overall length  | l1        | 3492 mm                  |
| 4.20                      | Length to face of forks   | l2        | 2342 mm                  |
| 4.21                      | Overall width   | b1        | 1265 mm                  |
| 4.22                      | Forks section / width / length                                  | s / e / l | 122 mm x 1150 mm x 40 mm |
| 4.23                      | Fork carriage ISO 2328 (class/form) A/B                         |           | 2A                       |
| 4.24                      | Fork carriage width   | b3        | 1038 mm                  |
| 4.31                      | Ground clearance below mast                                     | m1        | 112 mm                   |
| 4.32                      | Ground clearance at centre of wheelbase                         | m2        | 120 mm                   |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 3738 mm                  |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 3938 mm                  |
| 4.35                      | Turning radius  | Wa        | 2090 mm                  |
| 4.36                      | Internal turning radius (over tyres)                            | b13       | 730 mm                   |
| Performances              |   |           |                          |
| 5.1                       | Travel speed (laden / unladen)                                  |           | 14 km/h-14 km/h          |
| 5.2                       | Lifting speed (laden / unladen)                                 |           | 0.23 m/s-0.43 m/s        |
| 5.3                       | Lowering speed (laden / unladen)                                |           | 0.41 m/s-0.22 m/s        |
| 5.5                       | Drawbar pull (Laden / Unladen)                                  |           | 1800 daN / 1700 daN      |
| 5.7                       | Gradeability (laden / unladen)                                  |           | 11 % / 12 %              |
| 5.10                      | Service brake   |           | Hydraulic                |
| Engine                    |   |           |                          |
| 6.1                       | Drive motor rating S2 60 min                                    |           | 11 kW                    |
| 6.2                       | Lift motor rating at S3 15%                                     |           | 8.60 kW                  |
| 6.3                       | Battery according to DIN 43531/35/36 A, B, C                    |           | DIN43531 B               |
| 6.4                       | Battery voltage / capacity                                      |           | 48 V / 700 Ah            |
| 6.6                       | Energy consumption according to VDI cycle (kWh/h)               |           | 5.80 kWh/h               |
| Miscellaneous             |   |           |                          |
| 8.1                       | Type of drive control   |           | Electronic               |
| 8.2                       | Working hydraulic pressure for attachments                      |           | 175 bar                  |
| 8.3                       | Oil flow rate for attachments                                   |           | 35 l/min                 |
| 8.4                       | Measured/guaranteed mean noise level at the ear of the operator |           | < 72 dB                  |
| 8.4                       | Sound level at the driver's ear according to DIN 12 053         |           | 72 dB                    |

ME 425C - Dimensional drawing







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