

Technical sheet :

# ME 425C US

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 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Imperial  |                     |
|---------------------------|---|-----------|---------------------|
| 1.1                       | Manufacturer  |           | Manitou             |
| 1.2                       | Model Name  |           | ME 425C US          |
| 1.3                       | Power source  |           | Electrical          |
| 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         | 18 in               |
| 1.9                       | Wheelbase   | y         | 58 in               |
| Weight                    |   |           |                     |
| 2.1                       | Service weight  |           | 9480 lb             |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)                |           | 13360 lb / 1631 lb  |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 4321 lb / 5159 lb   |
| 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       | 42 in               |
| 3.7                       | Rear wheel gauge  | b11       | 38 in               |
| Dimensions                |   |           |                     |
| 4.7                       | Height of overhead guard (cabin)                                | h6        | 85 in               |
| 4.8                       | Seat height/stand height  | h7        | 42 in               |
| 4.12                      | Height of towing bar (coupling height)                          | h10       | 12 in               |
| 4.19                      | Overall length  | l1        | 137 in              |
| 4.20                      | Length to face of forks   | l2        | 92 in               |
| 4.21                      | Overall width   | b1        | 50 in               |
| 4.22                      | Forks section / width / length                                  | s / e / l | 5 in x 45 in x 2 in |
| 4.23                      | Fork carriage ISO 2328 (class/form) A/B                         |           | 2A                  |
| 4.24                      | Fork carriage width   | b3        | 41 in               |
| 4.31                      | Ground clearance below mast                                     | m1        | 4 in                |
| 4.32                      | Ground clearance at centre of wheelbase                         | m2        | 5 in                |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 147 in              |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 155 in              |
| 4.35                      | Turning radius  | Wa        | 82 in               |
| 4.36                      | Internal turning radius (over tyres)                            | b13       | 29 in               |
| Performances              |   |           |                     |
| 5.1                       | Travel speed (laden / unladen)                                  |           | 9 mph-9 mph         |
| 5.2                       | Lifting speed (laden / unladen)                                 |           | 0.75 ft/s-1 ft/s    |
| 5.3                       | Lowering speed (laden / unladen)                                |           | 1 ft/s-0.72 ft/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            |
| Miscellaneous             |   |           |                     |
| 8.1                       | Type of drive control   |           | Electronic          |
| 8.2                       | Working hydraulic pressure for attachments                      |           | 2538 PSI            |
| 8.3                       | Oil flow rate for attachments                                   |           | 9 US gpm            |
| 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 US - Dimensional drawing







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