

Technical sheet :

ME 425C US



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | | Imperial |
|---------------------------|---|-----------|---------------------|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ME 425C US |
| 1.3 | Power source | | Electrical - Lead |
| 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/h |
| 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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