

Technical sheet :

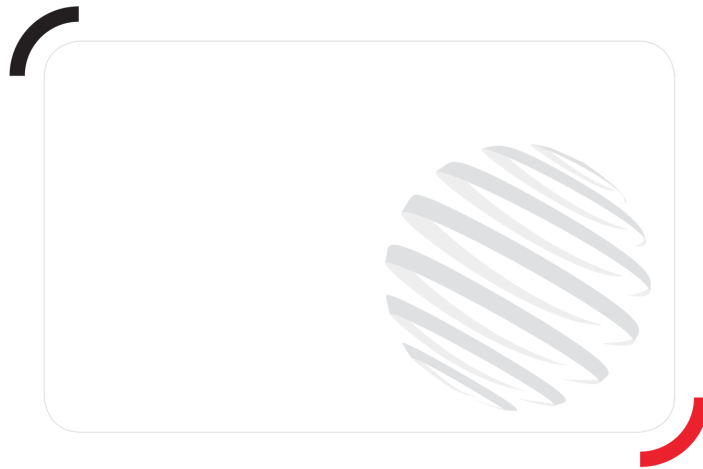
ME 425



| Technical characteristics | | | Metric |
|---------------------------|--|------------------|--------------------------|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ME 425 |
| 1.3 | Power source | | Electric |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 2500 kg |
| 1.6 | Load centre of gravity | c | 500 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 435 mm |
| 1.9 | Wheelbase | y | 1750 mm |
| Weight | | | |
| 2.1 | Service Weight | | 5100 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 6620 kg / 980 kg |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 2500 kg / 2600 kg |
| Wheels | | | |
| 3.1 | Tyres type | | Super Elastic |
| 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 |
| 3.2 | Number of drive wheels | | 2 |
| 3.6 | Front wheel gauge | b10 | 1073 mm |
| 3.7 | Rear wheel | b11 | 960 mm |
| Dimensions | | | |
| 4.1 | Tilt of Mast Forward (deg) / Backward (deg) | α / β | 5 / 8 |
| 4.7 | Height of overhead guard (cabin) | h6 | 2240 mm |
| 4.7 | Overall height of standard overhead guard | h6 | 2240 mm |
| 4.8 | Seat height/stand height | h7 | 1190 mm |
| 4.12 | Height of towing bar (coupling height) | h10 | 625 mm |
| 4.19 | Overall length | l1 | 3640 mm |
| 4.20 | Length to face of forks | l2 | 2490 mm |
| 4.21 | Overall width | b1 | 1275 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 | 1100 mm |
| 4.31 | Ground clearance below mast | m1 | 105 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 115 mm |
| 4.33 | Aisle width for 1000 x 1200 pallet widthways | Ast | 4035 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 4235 mm |
| 4.35 | Turning radius | Wa | 2400 mm |
| 4.36 | Internal turning radius (over tyres) | b13 | 730 mm |
| Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 19 km/h / 20 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.46 Nm / 0.62 Nm |
| 5.3 | Lowering speed (laden / unladen) | | 0.47 Nm / 0.42 Nm |
| 5.5 | Drawbar pull (Laden / Unladen) | | 1740 daN / 1640 |
| 5.7 | Gradeability - laden / unladen (%) | | 16 % / 21 |

| | | | |
|------|---|--|--------------|
| | Performances | | |
| 5.10 | Service brake | | Oil bath |
| | Engine | | |
| 6.1 | Drive motor rating S2 60 min | | 18.5 kW |
| 6.2 | Lift motor rating at S3 15% | | 25.4 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN43536 A |
| 6.4 | Battery / Batteries capacity | | 80 V / 700 A |
| 7.5 | Fuel consumption according to VDI cycle | | 10.5 |
| | Miscellaneous | | |
| 8.1 | Type of drive control | | Electronic |
| 8.2 | Working hydraulic pressure for attachments (bar) | | 210 Bar |
| 8.3 | Oil flow rate for attachments (l/min) | | 65 |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | 71 |

| Free Lift Triplex | | FLT 40 | FLT 43 | FLT 48 | FLT 50 | FLT 55 | FLT 60 |
|--|----|--------|--------|--------|--------|--------|--------|
| Residual Capacity without attachment (Industrial load chart) | kg | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Residual Capacity with integrated side shift (Industrial load chart) | kg | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Residual capacity with hooked-on side shift (Industrial load chart) | kg | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height at max capacity | mm | 4000 | 4300 | 4800 | 5000 | 5500 | 6000 |
| Height at max capacity with integrated sideshift | mm | 4000 | 4300 | 4800 | 5000 | 5500 | 6000 |



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