Technical sheet:

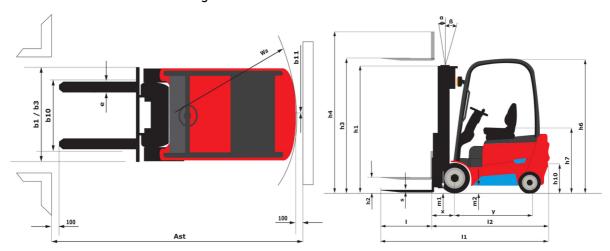
## ME 425 LD LIFT





|            |   | ME 425 LD LIFT GR | ated on June 18, 2025 at 6:32 PM 011     |
|------------|---|-------------------|--|
|            | Technical characteristics   |                   | Metric                                   |
| 1.1        | Manufacturer  |                   | Manitou                                  |
| 1.2        | Model Name  |                   | ME 425 LD LIFT                           |
| 1.3        | Power source  |                   | Electrical                               |
| 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                 | 431 mm                                   |
| 1.9        | Wheelbase   | у                 | 1520 mm                                  |
|            | Standard mast reference of the machine  |                   | FVD 30                                   |
|            | Weight  |                   |  |
| 2.1        | Service weight  |                   | 3830 kg                                  |
| 2.2        | Weight on front axle (laden) / rear axle (laden)  |                   | 5575 kg / 755 kg                         |
| 2.3        | Weight on front axle (Unladen) / rear axle (Unladen)  |                   | 1560 kg / 2270 kg                        |
|            | Wheels  |                   |  |
| 3.1        | Tires type  |                   | Solid tires                              |
| 3.2        | Dimensions of front wheels  |                   | 23x9-10-18PR                             |
| 3.3        | Dimensions of rear wheels   |                   | 18X7-8-14PR                              |
| 3.5        | Number of front wheels  |                   | 2  |
| 3.5.2      | Number of drive wheels  |                   | 2  |
| 3.6        | Front wheel gauge   | b10               | 1046 mm                                  |
| 3.7        | Rear wheel gauge  | b11               | 960 mm                                   |
| 3.7        | Dimensions  | 011               | 900 IIIII                                |
| 4.7        | Height of overhead guard (cabin)  | h6                | 2186 mm                                  |
| 4.8        | Seat height/stand height  | h7                | 1155 mm                                  |
| 4.12       | Height of towing bar (coupling height)  | h10               | 440 mm                                   |
| 4.12       | Overall length  | l1                | 3357 mm                                  |
| 4.19       | Length to face of forks   | 12                | 2287 mm                                  |
| 4.20       | Overall width   | b1                | 1271 mm                                  |
| 4.22.1     | Forks width / length  | e / I             | 40 mm x 122 mm                           |
| 4.22.1     | Fork carriage ISO 2328 (class/form) A/B   | 6/1               | 2A                                       |
| 4.23       | Fork carriage width   | b3                | 1038 mm                                  |
| 4.24       | Ground clearance at centre of wheelbase   | m2                | 115 mm                                   |
| 4.33       |   | Ast               | 3670 mm                                  |
| 4.33       | Aisle Width for pallets 1000 x 1200 crossways  Aisle width for 800 x 1200 pallet lengthways | Ast               | 3866 mm                                  |
| 4.34       |   | Wa                | 2035 mm                                  |
| 4.55       | Tuming radius   | vvd               | 2033 111111                              |
| 5.1        | Performances Troyal anced (Index / upladex)   |                   | 16 km/h-17 km/h                          |
|            | Travel speed (laden / unladen)  |                   |  |
| 5.2<br>5.3 | Lifting speed (laden / unladen)   |                   | 0.35 m/s-0.46 m/s                        |
| 5.5        | Lowering speed (laden / unladen)  |                   | 0.51 m/s-0.54 m/s<br>6000 daN / 6500 daN |
|            | Drawbar pull (Laden / Unladen)  |                   |  |
| 5.7        | Gradeability (laden / unladen)  |                   | 10 % / 18 %                              |
| 5.10       | Service brake   |                   | Hydraulic                                |
|            | Engine  |                   | 47.1 W                                   |
| 6.1        | Drive motor rating S2 60 min  |                   | 17 kW                                    |
| 6.2        | Lift motor rating at S3 15%   |                   | 23 kW                                    |
| 6.3        | Battery according to DIN 43531/35/36 A, B, C  |                   | No 76 00 V / 220 Ab                      |
| 6.4        | Battery voltage / capacity  |                   | 76.80 V / 230 Ah                         |
| 6.5        | Battery weight (+/- 5%)   |                   | 180 kg                                   |
| 6.6        | Energy consumption according to VDI cycle (kWh/h)   |                   | 5.80 kWh/h                               |
|            | Miscellaneous   |                   |  |
| 8.2        | Working hydraulic pressure for attachments  |                   | 160 bar                                  |
| 8.3        | Oil flow rate for attachments   |                   | 25 l/min                                 |
| 8.4        | Sound level at the driver's ear according to DIN 12 053                                     |                   | 70 dB                                    |

## ME 425 LD LIFT - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                               |    |
|--|----|
| α - Mast/fork carriage tilt, forward                       | ۰  |
| β - Mast/fork carriage tilt, backward                      | ۰  |
| h1 - Mast lowered height                                   | mm |
| h2 - Mast free lift  | mm |
| h3 - Mast lifting height                                   | mm |
| h4 - Mast extended height                                  | mm |
| Residual capacity at max height                            | kg |
| Residual capacity with integrated side shift at max heigth | kg |

| FVD 30 | FVD 33 | FVD 37 | FVD 40 | FVD 45 |
|--------|--------|--------|--------|--------|
| 6      | 6      | 6      | 6      | 6      |
| 12     | 12     | 12     | 12     | 6      |
| 2000   | 2150   | 2400   | 2600   | 2850   |
| 140    | 140    | 140    | 140    | 140    |
| 3000   | 3300   | 3700   | 4000   | 4500   |
| 4046   | 4346   | 4746   | 5046   | 5546   |
| 2500   | 2500   | 2500   | 2500   | 2450   |
| 2450   | 2450   | 2450   | 2450   | 2400   |

| Free Lift Triplex (FLT)                                    |    | FLT 40 | FLT 45 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|--|----|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward °                     |    | 6      | 6      | 6      | 6      | 3      | 3      | 3      |
| β - Mast/fork carriage tilt, backward                      | ۰  | 6      | 6      | 6      | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height                                   | mm | 1950   | 2100   | 2200   | 2300   | 2450   | 2650   | 2850   |
| h2 - Mast free lift  | mm | 904    | 1054   | 1154   | 1254   | 1404   | 1604   | 1804   |
| h3 - Mast lifting height                                   | mm | 4000   | 4500   | 4800   | 5000   | 5500   | 6000   | 6500   |
| h4 - Mast extended height                                  | mm | 5046   | 5546   | 5846   | 6046   | 6546   | 7046   | 7546   |
| Residual capacity at max height                            | kg | 2500   | 2350   | 2250   | 2150   | 2050   | 1850   | 1600   |
| Residual capacity with integrated side shift at max heigth | kg | 2450   | 2300   | 2200   | 2100   | 2000   | 1800   | 1550   |





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