

Technical sheet :

# ME 435 FOB

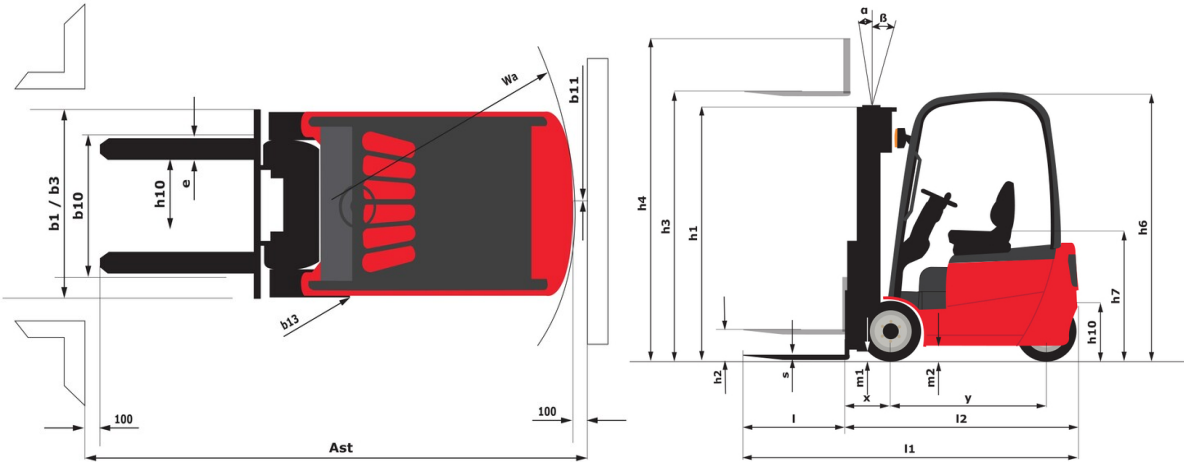
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|       | Technical characteristics                                       |           | Metric                   |
|-------|-----------------------------------------------------------------|-----------|--------------------------|
| 1.1   | Manufacturer                                                    |           | Manitou                  |
| 1.2   | Model Name                                                      |           | ME 435 FOB               |
| 1.3   | Power source                                                    |           | Electrical               |
| 1.4   | Operator type                                                   |           | Seated                   |
| 1.5   | Max. capacity                                                   | Q         | 3500 kg                  |
| 1.6   | Load center of gravity                                          | c         | 500 mm                   |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 445 mm                   |
| 1.9   | Wheelbase                                                       | y         | 1750 mm                  |
|       | Weight                                                          |           |                          |
| 2.1   | Service weight                                                  |           | 5550 kg                  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 8050 kg / 1000 kg        |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 2720 kg / 2830 kg        |
|       | Wheels                                                          |           |                          |
| 3.1   | Tires type                                                      |           | Solid tires              |
| 3.2   | Dimensions of front wheels                                      |           | 23 x 10 -12              |
| 3.3   | Dimensions of rear wheels                                       |           | 200/50 - 10              |
| 3.5   | Number of front wheels / rear wheels                            |           | 2 / 2                    |
| 3.5.2 | Number of drive wheels                                          |           | 2                        |
| 3.6   | Front wheel gauge                                               | b10       | 1085 mm                  |
| 3.7   | Rear wheel gauge                                                | b11       | 960 mm                   |
|       | Dimensions                                                      |           |                          |
| 4.7   | Height of overhead guard (cabin)                                | 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        | 3650 mm                  |
| 4.20  | Length to face of forks                                         | l2        | 2500 mm                  |
| 4.21  | Overall width                                                   | b1        | 1315 mm                  |
| 4.22  | Forks section / width / length                                  | s / e / l | 50 mm x 122 mm x 1150 mm |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |           | 3A                       |
| 4.24  | Fork carriage width                                             | b3        | 1100 mm                  |
| 4.31  | Ground clearance below mast                                     | m1        | 112 mm                   |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 115 mm                   |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 4045 mm                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4245 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)                                 |           | 0.39 m/s-0.54 m/s        |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.47 m/s-0.42 m/s        |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 1690 daN / 1700 daN      |
| 5.7   | Gradeability (laden / unladen)                                  |           | 12 % / 18 %              |
| 5.10  | Service brake                                                   |           | Oil bath                 |
|       | Engine                                                          |           |                          |
| 6.1   | Drive motor rating S2 60 min                                    |           | 18.50 kW                 |
| 6.2   | Lift motor rating at S3 15%                                     |           | 25.40 kW                 |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C                    |           | DIN43536 A               |
| 6.4   | Battery voltage / capacity                                      |           | 80 V / 700 Ah            |
| 6.6   | Energy consumption according to VDI cycle (kWh/h)               |           | 12.50 kWh/h              |
|       | Miscellaneous                                                   |           |                          |
| 8.1   | Type of drive control                                           |           | Electronic               |
| 8.2   | Working hydraulic pressure for attachments                      |           | 210 bar                  |
| 8.3   | Oil flow rate for attachments                                   |           | 65 l/min                 |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 74 dB                  |

ME 435 FOB - Dimensional drawing



# Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                              |    | FVD 30 | FVD 33 | FVD 35 | FVD 37 | FVD 40 | FVD 43 | FVD 45 | FVD 48 | FVD 50 |
|-----------------------------------------------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork camiage tilt, forward                       | °  | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      |
| β - Mast/fork camiage tilt, backward                      | °  | 8      | 8      | 8      | 8      | 8      | 5      | 5      | 5      | 5      |
| h1 - Mast lowered height                                  | mm | 2235   | 2385   | 2485   | 2858   | 2835   | 2985   | 3085   | 3235   | 3335   |
| h2 - Mast free lift                                       | mm | 150    | 150    | 150    | 150    | 150    | 150    | 150    | 150    | 150    |
| h3 - Mast lifting height                                  | mm | 3000   | 3300   | 3500   | 3700   | 4000   | 4300   | 4500   | 4800   | 5000   |
| h4 - Mast extended height                                 | mm | 3838   | 4138   | 4338   | 4538   | 4838   | 5138   | 5338   | 5638   | 5838   |
| Residual capacity at max height                           | kg | 3500   | 3500   | 3500   | 3500   | 3500   | 3500   | 3500   | 3500   | 3400   |
| Residual capacity with integrated side shift at max heigh | kg | 3500   | 3500   | 3500   | 3500   | 3500   | 3500   | 3400   | 3350   | 3400   |
| Residual capacity with hooked-on side shift at max heigh  | kg | 3500   | 3500   | 3500   | 3500   | 3500   | 3500   | 3400   | 3300   | 3200   |
| Height at max capacity                                    | mm | 3000   | 3300   | 3500   | 3700   | 4000   | 4300   | 4500   | 4800   | 4000   |
| Height at max capacity with integrated sideshift          | mm | 3000   | 3300   | 3500   | 3700   | 4000   | 4300   | 4000   | 4000   | 4000   |

| Free Lift Duplex (FLD)                                    |    | FLD 30 | FLD 33 | FLD 37 | FLD 40 |
|-----------------------------------------------------------|----|--------|--------|--------|--------|
| α - Mast/fork camiage tilt, forward                       | °  | 5      | 5      | 5      | 5      |
| β - Mast/fork camiage tilt, backward                      | °  | 8      | 8      | 8      | 8      |
| h1 - Mast lowered height                                  | mm | 2135   | 2285   | 2485   | 2685   |
| h2 - Mast free lift                                       | mm | 1275   | 1425   | 1625   | 1825   |
| h3 - Mast lifting height                                  | mm | 3000   | 3300   | 3700   | 4000   |
| h4 - Mast extended height                                 | mm | 3860   | 4160   | 4560   | 4860   |
| Residual capacity at max height                           | kg | 3500   | 3500   | 3500   | 3500   |
| Residual capacity with integrated side shift at max heigh | kg | 3500   | 3500   | 3500   | 3500   |
| Residual capacity with hooked-on side shift at max heigh  | kg | 3500   | 3500   | 3500   | 3500   |
| Height at max capacity                                    | mm | 3000   | 3300   | 3700   | 4000   |
| Height at max capacity with integrated sideshift          | mm | 3000   | 3300   | 3700   | 4000   |

| Free Lift Triplex (FLT)                                   |    | FLT 40 | FLT 43 | FLT 48 | FLT 50 | FLT 55 | FLT 60 |
|-----------------------------------------------------------|----|--------|--------|--------|--------|--------|--------|
| α - Mast/fork camiage tilt, forward                       | °  | 5      | 5      | 5      | 5      | 5      | 5      |
| β - Mast/fork camiage tilt, backward                      | °  | 5      | 5      | 5      | 5      | 5      | 5      |
| h1 - Mast lowered height                                  | mm | 2135   | 2235   | 2435   | 2535   | 2735   | 2985   |
| h2 - Mast free lift                                       | mm | 1275   | 1375   | 1575   | 1675   | 1875   | 2125   |
| h3 - Mast lifting height                                  | mm | 4000   | 4300   | 4800   | 5000   | 5500   | 6000   |
| h4 - Mast extended height                                 | mm | 4680   | 5160   | 5660   | 5860   | 6360   | 6860   |
| Residual capacity at max height                           | kg | 3500   | 3400   | 3300   | 3200   | 3150   | 3000   |
| Residual capacity with integrated side shift at max heigh | kg | 3500   | 3350   | 3250   | 3200   | 3150   | 3000   |
| Residual capacity with hooked-on side shift at max heigh  | kg | 3400   | 3250   | 3100   | 3050   | 3000   | 2850   |
| Height at max capacity                                    | mm | 2500   | 2500   | 2500   | 2500   | 2500   | 2500   |



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