Technical sheet :



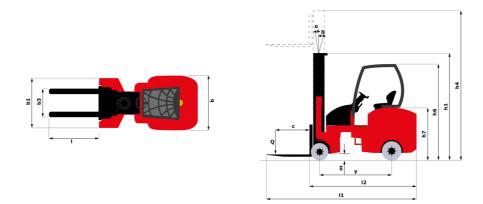




|       | Technical characteristics                                       |   |
|-------|---|---|
| 1.1   | Manufacturer  |   |
| 1.2   | Model Name  |   |
| 1.3   | Power source  |   |
| 1.4   | Operator type   |   |
| 1.5   | Max. capacity   |   |
| 1.6   | Load center of gravity  |   |
| 1.8   | Load distance, centre of drive axle to fork                     |   |
| 1.9   | Wheelbase   |   |
|       | Weight  |   |
| 2.1   | Service weight  |   |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |   |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |   |
|       | Wheels  |   |
| 3.1   | Tires type  |   |
| 3.2   | Dimensions of front wheels                                      |   |
| 3.3   | Dimensions of rear wheels                                       |   |
| 3.5   | Number of front wheels / rear wheels                            |   |
| 3.5.2 | Number of drive wheels  |   |
| 3.6   | Front wheel gauge   |   |
| 3.7   | Rear wheel gauge  |   |
| 0.7   | Dimensions  |   |
| 4.7   | Height of overhead guard (cabin)                                |   |
| 4.8   | Seat height/stand height  |   |
| 4.19  | Overall length  |   |
| 4.20  | Length to face of forks   |   |
| 4.20  | Overall width   |   |
| 4.21  | Forks section / width / length                                  | 5 |
| 4.22  | -   | : |
|       | Fork carriage ISO 2328 (class/form) A/B                         |   |
| 4.24  | Fork carriage width   |   |
| 4.31  | Ground clearance below mast                                     |   |
| 4.32  | Ground clearance at centre of wheelbase                         |   |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   |   |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | _ |
|       | Performances  |   |
| 5.1   | Travel speed (laden / unladen)                                  |   |
| 5.2   | Lifting speed (laden / unladen)                                 |   |
| 5.3   | Lowering speed (laden / unladen)                                |   |
| 5.7   | Gradeability (laden / unladen)                                  |   |
| 5.10  | Service brake   |   |
|       | Engine  |   |
| 6.1   | Drive motor rating S2 60 min                                    |   |
| 6.2   | Lift motor rating at S3 15%                                     |   |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C                    |   |
| 6.4   | Battery voltage / capacity                                      |   |
| 6.5   | Battery weight (+/- 5%)   |   |
|       | Miscellaneous   |   |
| 8.1   | Type of drive control   |   |
| 8.2   | Working hydraulic pressure for attachments                      |   |
| 8.3   | Oil flow rate for attachments                                   |   |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |   |
| 8.4   | Sound level at the driver's ear according to DIN 12 053         |   |

| EMA II    | <b>1</b> ∋ Created on June 17, 2025 at 3:38 PM UTC |
|-----------|--|
|           | Metric   |
|           | Manitou  |
|           | EMA II 13  |
|           | Electrical   |
|           | Seated   |
| Q         | 1300 kg  |
| С         | 500 mm   |
| х         | 278 mm   |
| у         | 1855 mm  |
|           |  |
|           | 5900 kg  |
|           | 3350 kg / 3850 kg                                  |
|           | 1900 kg / 4000 kg                                  |
|           |  |
|           | Solid tires  |
|           | 412 x 127 mm                                       |
|           | 457 x 152 mm                                       |
|           | 2 / 2  |
|           | 2  |
| b10       | 825 mm   |
| b11       | 1060 mm  |
|           |  |
| h6        | 2260 mm  |
| h7        | 1200 mm  |
| 1         | 3890 mm  |
| 12        | 2740 mm  |
| b1        | 1060 mm  |
| s / e / l | 40 mm x 100 mm x 1150 mm                           |
|           | 2  |
| b3        | 860 mm   |
| m1        | 50 mm  |
| m2        | 130 mm   |
| Ast       | 1700 mm  |
| Ast       | 1900 mm  |
|           |  |
|           | 9 km/h-9.50 km/h                                   |
|           | 0.35 m/s-0.45 m/s                                  |
|           | 0.40 m/s-0.35 m/s                                  |
|           | 8 % / 10.50 %                                      |
|           | Hydraulic  |
|           | 10 kW  |
|           | 9 kW   |
|           |  |
|           | DIN 43595<br>48 V / 620 Ah                         |
|           |  |
|           | 1030 kg  |
|           | Mosfet AC speed controller                         |
|           | 200 bar  |
|           | 200 bai  |
|           | < 73 dB  |
|           | 73 dB  |
|           | / 3 UD   |

## EMA II 13 - Dimensional drawing



## Characteristics of masts and residual capacities

| Free Lift Triplex (FLT)                                    | FLT 42 | FLT 50 | FLT 56 | FLT 60 | FLT 66 | FLT 76 |      |
|--|--------|--------|--------|--------|--------|--------|------|
| a - Mast/fork carriage tilt, forward °                     |        | 1      | 1      | 1      | 1      | 1      | 1    |
| β - Mast/fork carriage tilt, backward                      | ۰      | 3      | 3      | 3      | 3      | 3      | 3    |
| h1 - Mast lowered height                                   | mm     | 2360   | 2630   | 2810   | 2960   | 3210   | 3650 |
| h2 - Mast free lift  | mm     | 1400   | 1750   | 193    | 2080   | 2330   | 2670 |
| h3 - Mast lifting height                                   | mm     | 4200   | 5010   | 5550   | 6000   | 6600   | 7620 |
| h4 - Mast extended height                                  | mm     | 5030   | 5910   | 6450   | 6900   | 7500   | 8520 |
| Residual capacity with integrated side shift at max heigth | kg     | 1300   | 1200   | 1100   | 1000   | 900    | 750  |



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