Technical sheet :



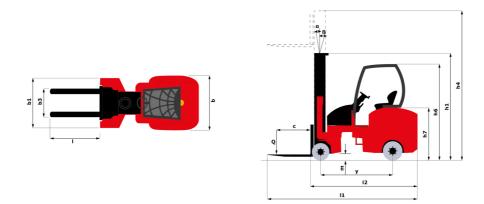




|        | Technical characteristics                                       |  |
|--------|---|--|
| 1      | Manufacturer  |  |
|        | Model Name  |  |
|        | Power source  |  |
|        | Operator type   |  |
| 5      | Max. capacity   |  |
| 6      | Load center of gravity  |  |
| .8     | Load distance, centre of drive axle to fork                     |  |
| .9     | Wheelbase   |  |
|        | Weight  |  |
| .1     | Service weight  |  |
| .2     | Weight on front axle (laden) / rear axle (laden)                |  |
| 3      | Weight on front axle (Unladen) / rear axle (Unladen)            |  |
|        | Wheels  |  |
| .1     | Tires type  |  |
| 2      | Dimensions of front wheels                                      |  |
| 3      | Dimensions of rear wheels                                       |  |
|        | Number of front wheels / rear wheels                            |  |
| 2      | Number of drive wheels  |  |
|        | Front wheel gauge   |  |
|        | Rear wheel gauge  |  |
|        | Dimensions  |  |
|        | Height of overhead guard (cabin)                                |  |
|        | Seat height/stand height  |  |
|        | Overall length  |  |
| )      | Length to face of forks   |  |
|        | Overall width   |  |
| 2      | Forks section / width / length                                  |  |
| 3      | Fork carriage ISO 2328 (class/form) A/B                         |  |
| 1      | Fork carriage width   |  |
|        | Ground clearance below mast                                     |  |
|        | Ground clearance at centre of wheelbase                         |  |
| 2<br>3 | Aisle Width for pallets 1000 x 1200 crossways                   |  |
| ļ      | Aisle width for 800 x 1200 pallet lengthways                    |  |
|        | Performances  |  |
|        | Travel speed (laden / unladen)                                  |  |
|        | Lifting speed (laden / unladen)                                 |  |
|        | Lowering speed (laden / unladen)                                |  |
|        | Gradeability (laden / unladen)                                  |  |
| )      | Service brake   |  |
|        | Engine  |  |
|        | Drive motor rating S2 60 min                                    |  |
|        | Lift motor rating at S3 15%                                     |  |
|        | Battery according to DIN 43531/35/36 A, B, C                    |  |
|        |   |  |
| l<br>: | Battery voltage / capacity                                      |  |
| 5      | Battery weight (+/- 5%)<br>Miscellaneous                        |  |
|        |   |  |
| 1      | Type of drive control   |  |
| 2<br>3 | Working hydraulic pressure for attachments                      |  |
| 3      | Oil flow rate for attachments                                   |  |
|        | Measured/guaranteed mean noise level at the ear of the operator |  |
|        | Sound level at the driver's ear according to DIN 12 053         |  |

| EMA II 20 | Created on June 15, 2025 at 9:28 PM UTC |
|-----------|---|
|           | Metric                                  |
|           | Manitou                                 |
|           | EMA II 20                               |
|           | Electrical                              |
|           | Seated                                  |
| Q         | 2000 kg                                 |
| С         | 500 mm                                  |
| x         | 278 mm                                  |
| у         | 1745 mm                                 |
|           |   |
|           | 6600 kg                                 |
|           | 4800 kg / 4400 kg                       |
|           | 2200 kg / 4400 kg                       |
|           |   |
|           | Solid tires                             |
|           | 412 x 178                               |
|           | 457 x 152                               |
|           | 2/2                                     |
|           | 2                                       |
| b10       | 1125 mm                                 |
| b11       | 1200 mm                                 |
| 1.4       | 0040                                    |
| h6        | 2260 mm                                 |
| h7<br> 1  | 1200 mm<br>3710 mm                      |
| 12        | 2560 mm                                 |
| b1        | 1200 mm                                 |
| s/e/l     | 40 mm x 125 mm x 1150 mm                |
| 57 671    | 2                                       |
| b3        | -<br>860 mm                             |
| m1        | 50 mm                                   |
| m2        | 130 mm                                  |
| Ast       | 1900 mm                                 |
| Ast       | 2100 mm                                 |
|           |   |
|           | 9 km/h-9.50 km/h                        |
|           | 0.35 m/s-0.45 m/s                       |
|           | 0.40 m/s-0.36 m/s                       |
|           | 8 % / 10.50 %                           |
|           | Hydraulic                               |
|           |   |
|           | 10 kW                                   |
|           | 9 kW                                    |
|           | DIN 43595                               |
|           | 48 V / 750 Ah                           |
|           | 1135 kg                                 |
|           | Marfeld AD and the H                    |
|           | Mosfet AC speed controller              |
|           | 200 bar                                 |
|           | 25 l/min                                |
|           | < 73 dB<br>73 dB                        |
|           | 75 UB                                   |

## EMA II 20 - Dimensional drawing



## Characteristics of masts and residual capacities

| Free Lift Triplex<br>(FLT)  |    | FLT 42 | FLT 45 | FLT 50 | FLT 56 | FLT 60 | FLT 66 | FLT 72 | FLT 76 | FLT 80 | FLT 86 | FLT 90 | FLT 95 | FLT 102 |
|---|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| α - Mast/fork<br>carriage tilt,<br>forward                          | ۰  | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1       |
| β - Mast/fork<br>carriage tilt,<br>backward                         | ۰  | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3      | 3       |
| h1 - Mast lowered<br>height   | mm | 2300   | 2410   | 2570   | 2750   | 2900   | 3150   | 3400   | 3590   | 3720   | 4020   | 4150   | 4500   | 4690    |
| h2 - Mast free lift   | mm | 1480   | 1590   | 1750   | 1930   | 2080   | 2330   | 2580   | 2770   | 2900   | 3200   | 3330   | 3650   | 3870    |
| h3 - Mast lifting<br>height   | mm | 4200   | 4530   | 5010   | 5550   | 6000   | 6600   | 7200   | 7620   | 8010   | 8610   | 9000   | 9500   | 10200   |
| h4 - Mast<br>extended height  | mm | 5030   | 5360   | 5840   | 6380   | 6830   | 7430   | 8030   | 8450   | 8840   | 9440   | 9830   | 10475  | 11175   |
| Residual capacity<br>with integrated<br>side shift at max<br>heigth | kg | 1800   | 1700   | 1600   | 1500   | 1400   | 1300   | 1200   | 1150   | 1080   | 1000   | 1000   | 900    | 750     |



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