Technical sheet:

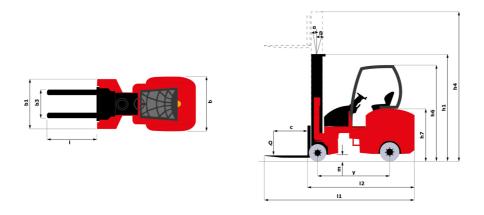
EMA II 18 HL-1





| | | EMAILIBRE-1 Olculo | ed on November 8, 2025 at 4.31 PM C |
|-------|---|--------------------|-------------------------------------|
| | Technical characteristics | | Imperial |
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | EMA II 18 HL-1 |
| 1.3 | Power source | | Electrical - Lead |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 3858 lb |
| 1.6 | Load center of gravity | c | 20 in |
| 1.8 | Load distance, centre of drive axle to fork | x | 12 in |
| 1.9 | Wheelbase | y | 69 in |
| 1.7 | Weight | , | 07111 |
| 2.1 | Service weight | | 15212 lb |
| 2.1 | • | | 9259 lb / 9921 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 4850 lb / 10362 lb |
| | Wheels | | |
| 3.1 | Tires type | | Solid tires |
| 3.2 | Dimensions of front wheels | | 412 x 178 |
| 3.3 | Dimensions of rear wheels | | 457 x 178 |
| 3.5 | Number of front wheels / rear wheels | | 2/2 |
| 3.5.2 | Number of drive wheels | | 2 |
| 3.6 | Front wheel gauge | b10 | 44 in |
| 3.7 | Rear wheel gauge | b11 | 49 in |
| | Dimensions | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 89 in |
| 4.8 | Seat height/stand height | h7 | 47 in |
| 4.19 | Overall length | l1 | 147 in |
| 4.20 | Length to face of forks | I2 | 102 in |
| 4.21 | Overall width | b1 | 49 in |
| 4.22 | Forks section / width / length | s / e / l | 2 in x 5 in x 45 in |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2 |
| 4.24 | Fork carriage width | b3 | 34 in |
| 4.31 | Ground clearance below mast | m1 | 2 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 5 in |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 77 in |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 87 in |
| 4.04 | Performances | 7,51 | 07 III |
| 5.1 | Travel speed (laden / unladen) | | 6 mph-6 mph |
| 5.2 | Lifting speed (laden / unladen) | | 1 ft/s-1 ft/s |
| 5.3 | - ' ' | | 1 ft/s-1 ft/s |
| 5.7 | Lowering speed (laden / unladen) | | |
| | Gradeability (laden / unladen) | | 8 % / 10.50 % |
| 5.10 | Service brake | | Hydraulic |
| | Engine | | |
| 6.1 | Drive motor rating S2 60 min | | 10 kW |
| 6.2 | Lift motor rating at S3 15% | | 9 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN 43595 |
| 6.4 | Battery voltage / capacity | | 48 V / 775 Ah |
| 6.5 | Battery weight (+/- 5%) | | 3164 lb |
| | Miscellaneous | | |
| 8.1 | Type of drive control | | Mosfet AC speed controller |
| 8.2 | Working hydraulic pressure for attachments | | 2901 PSI |
| 8.3 | Oil flow rate for attachments | | 7 US gpm |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 73 dB |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 73 dB |

EMA II 18 HL-1 - Dimensional drawing



Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | | FLT 80 | FLT 84 | FLT 86 | FLT 90 | FLT 95 | FLT 100 | FLT 102 | FLT 106 |
|--|----|--------|--------|--------|--------|--------|---------|---------|---------|
| α - Mast/fork carriage tilt, forward | ۰ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| β - Mast/fork carriage tilt, backward | ۰ | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| h1 - Mast lowered height | in | 146.5 | 153.5 | 158.3 | 163.4 | 177.2 | 180.7 | 184.6 | 189.8 |
| h2 - Mast free lift | in | 114.2 | 121.3 | 126 | 131.1 | 143.7 | 148.4 | 152.4 | 157.5 |
| h3 - Mast lifting height | in | 315.4 | 330.7 | 339 | 354.3 | 374 | 394.5 | 401.6 | 415.7 |
| h4 - Mast extended height | in | 348 | 363.4 | 371.7 | 387 | 412.4 | 427.2 | 440 | 454.1 |
| Residual capacity with integrated side shift at max heigth | lb | 2756 | 2535 | 2535 | 2205 | 2205 | 1653 | 1653 | 1433 |





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