Technical sheet :

# EMA II 18 HL-1

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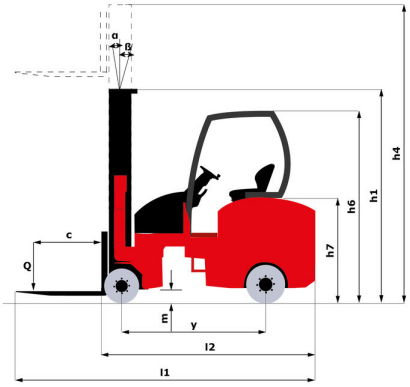
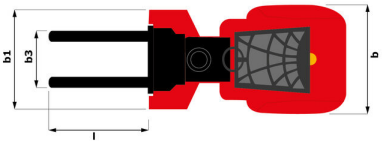
| | Technical characteristics | | Metric |
|---|---|---|---|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | EMA II 18 HL-1 |
| 1.3 | Power source | | Battery |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 1750 kg |
| 1.6 | Load centre of gravity | c | 500 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 308 mm |
| 1.9 | Wheelbase | y | 1745 mm |
| | **Weight** | | |
| 2.1 | Service weight | | 6900 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 4200 kg / 4500 kg |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 2200 kg / 4700 kg |
| | **Wheels** | | |
| 3.1 | Tyres type | | PPS |
| 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 | 1110 mm |
| 3.7 | Rear wheel gauge | b11 | 1250 mm |
| | **Dimensions** | | |
| 4.1 | Tilt of Mast Forward (deg) / Backward (deg) | α / β | 1.5 / 4 |
| 4.7 | Height of overhead guard (cabin) | h6 | 2260 mm |
| 4.8 | Seat height/stand height | h7 | 1200 mm |
| 4.19 | Overall length | l1 | 3740 mm |
| 4.20 | Length to face of forks | l2 | 2590 mm |
| 4.21 | Overall width | b1 | 1250 mm |
| 4.22 | Forks section / width / length | s / e / l | 40 mm x 125 mm / 1150 mm |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2 |
| 4.24 | Fork carriage width | b3 | 860 mm |
| 4.31 | Ground clearance below mast | m1 | 50 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 130 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 2200 mm |
| | **Performances** | | |
| 5.1 | Travel speed (laden / unladen) | | 9 km/h / 9.50 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.35 m/s / 0.45 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.40 m/s / 0.36 m/s |
| 5.7 | 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 / Batteries capacity | | 48 V / 775 Ah |
| | **Miscellaneous** | | |
| 8.1 | Type of drive control | | Mosfet AC speed controller |
| 8.2 | Working hydraulic pressure for attachments | | 200 bar |
| 8.3 | Oil flow rate for attachments | | 25 l/min |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 73 dB(A) |

# Dimensional drawing




# Characteristics of masts and residual capacities

| Free Lift Triplex | | FLT 8010 | FLT 8400 | FLT 8610 | FLT 9000 | FLT 9500 | FLT 10020 | FLT 10200 | FLT 10560 |
|---|---|---|---|---|---|---|---|---|---|
| β - Mast inclination (rear) | ° | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Residual capacity with integrated side shift (Industrial load chart) | kg | 1250 | 1150 | 1150 | 1000 | 1000 | 750 | 750 | 650 |
| Residual capacity with integrated sideshift (Maximum height & LC = 600 mm) | kg | 1100 | 1000 | 1000 | 800 | 800 | 650 | 650 | 600 |

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