Technical sheet :

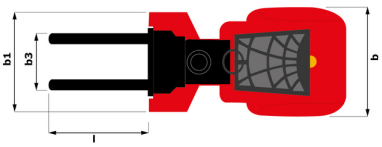
# EMA II 18 HL-2

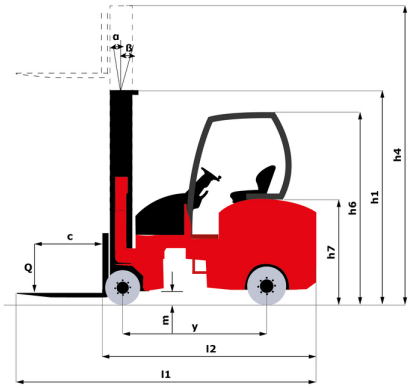


MANITOU
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| | Technical characteristics | | Metric | Imperial |
|---|---|---|---|---|
| 1.1 | Manufacturer | | Manitou | Manitou |
| 1.2 | Model Name | | EMA II 18 HL-2 | EMA II 18 HL-2 |
| 1.3 | Power source | | Electrical | Electrical |
| 1.4 | Operator type | | Sitting | Sitting |
| 1.5 | Max. capacity | Q | 1750 kg | 3858 lb |
| 1.6 | Load center of gravity | c | 500 mm | 20 in |
| 1.8 | Load distance, centre of drive axle to fork | x | 308 mm | 12 in |
| 1.9 | Wheelbase | y | 1745 mm | 69 in |
| | **Weight** | | | |
| 2.1 | Service weight | | 8700 kg | 19180 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 6330 kg / 4080 kg | 13955 lb / 8995 lb |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 3480 kg / 5220 kg | 7672 lb / 11508 lb |
| | **Wheels** | | | |
| 3.1 | Tires type | | PPS | PPS |
| 3.2 | Dimensions of front wheels | | 412 x 178 | 412 x 178 |
| 3.3 | Dimensions of rear wheels | | 457 x 178 | 457 x 178 |
| 3.5 | Number of front wheels / rear wheels | | 2 / 2 | 2 / 2 |
| 3.5.2 | Number of drive wheels | | 2 | 2 |
| 3.6 | Front wheel gauge | b10 | 1110 mm | 44 in |
| 3.7 | Rear wheel gauge | b11 | 1350 mm | 53 in |
| | **Dimensions** | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 2260 mm | 89 in |
| 4.8 | Seat height/stand height | h7 | 1200 mm | 47 in |
| 4.19 | Overall length | l1 | 3740 mm | 147 in |
| 4.20 | Length to face of forks | l2 | 2590 mm | 102 in |
| 4.21 | Overall width | b1 | 1350 mm | 53 in |
| 4.22 | Forks section / width / length | s / e / l | 40 mm x 125 mm x 1150 mm | 2 in x 5 in x 45 in |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2 | 2 |
| 4.24 | Fork carriage width | b3 | 860 mm | 34 in |
| 4.31 | Ground clearance below mast | m1 | 50 mm | 2 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 130 mm | 5 in |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 2000 mm | 79 in |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 2200 mm | 87 in |
| | **Performances** | | | |
| 5.1 | Travel speed (laden / unladen) | | 9 km/h-9.50 km/h | 6 mph-6 mph |
| 5.2 | Lifting speed (laden / unladen) | | 0.35 m/s-0.45 m/s | 1 ft/s-1 ft/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.40 m/s-0.36 m/s | 1 ft/s-1 ft/s |
| 5.7 | Gradeability (laden / unladen) | | 8 % / 10.50 % | 8 % / 10.50 % |
| 5.10 | Service brake | | Hydraulic | Hydraulic |
| | **Engine** | | | |
| 6.1 | Drive motor rating S2 60 min | | 10 kW | 10 kW |
| 6.2 | Lift motor rating at S3 15% | | 9 kW | 9 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN 43595 | DIN 43595 |
| 6.4 | Battery voltage / capacity | | 48 V / 930 Ah | 48 V / 930 Ah |
| | **Miscellaneous** | | | |
| 8.1 | Type of drive control | | Mosfet AC speed controller | Mosfet AC speed controller |
| 8.2 | Working hydraulic pressure for attachments | | 200 bar | 2901 PSI |
| 8.3 | Oil flow rate for attachments | | 25 l/min | 7 US gpm |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 73 dB | < 73 dB |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 73 dB | 73 dB |

## EMA II 18 HL-2 - Dimensional drawing



# Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | | FLT 80 | FLT 84 | FLT 90 | FLT 95 | FLT 100 | FLT 102 | FLT 110 | FLT 120 | FLT 125 | FLT 127 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mast/fork carriage tilt, forward | ° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mast/fork carriage tilt, backward | ° | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| h1 - Mast lowered height | in (mm) | 146.5 (3720) | 153.5 (3900) | 163.4 (4150) | 168.1 (4270) | 180.7 (4590) | 184.6 (4690) | 196.9 (5000) | 210.2 (5340) | 218.5 (5550) | 219.3 (5570) |
| h2 - Mast free lift | in (mm) | 114.2 (2900) | 121.3 (3080) | 131.1 (3330) | 143.7 (3650) | 148.4 (3770) | 152.4 (3870) | 164.6 (4180) | 178 (4520) | 184.3 (4680) | 187 (4750) |
| h3 - Mast lifting height | in (mm) | 315.4 (8010) | 330.7 (8400) | 354.3 (9000) | 374 (9500) | 394.5 (10020) | 401.6 (10200) | 433.5 (11010) | 472.4 (12000) | 492.5 (12510) | 500.8 (12720) |
| h4 - Mast extended height | in (mm) | 348 (8840) | 363.4 (9230) | 387 (9830) | 407.5 (10350) | 427.2 (10850) | 440 (11175) | 471.9 (11985) | 512 (13005) | 530.9 (13485) | 539.2 (13695) |
| Residual capacity with integrated side shift at max heigth | lb (kg) | 2756 (1250) | 2756 (1250) | 2756 (1250) | 2425 (1100) | 2425 (1100) | 2205 (1000) | 1874 (850) | 1653 (750) | 1543 (700) | 1102 (500) |

**Head Office**
B.P. 249 - 430 rue de l'Aubinière
44150 Ancenis Cedex - France
Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97
www.manitou.com



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