Technical sheet :

EMA II 18 HL-1





| EMA II 18 HL-1 | Created on | May 4, | , 2024 at | 5:25:23 | AM UTC |
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 Metric

 Manitou

 EMA II 18 HL-1

 Electrical

 Seated

 1750 kg

 500 mm

 308 mm

 1745 mm

 6900 kg

 4200 kg / 4500 kg

 2200 kg / 4700 kg

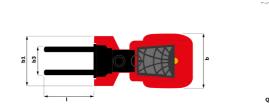
Solid tires

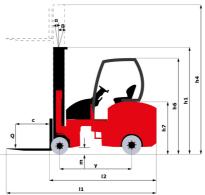
| | Technical characteristics | |
|-------|---|-------|
| 1.1 | Manufacturer | |
| 1.2 | Model Name | |
| 1.3 | Power source | |
| 1.4 | Operator type | |
| 1.5 | Max. capacity | Q |
| 1.6 | Load center of gravity | С |
| 1.8 | Load distance, centre of drive axle to fork | x |
| 1.9 | Wheelbase | у |
| | 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 | b10 |
| 3.7 | Rear wheel gauge | b11 |
| 5.7 | Dimensions | bii |
| 4.7 | Height of overhead guard (cabin) | h6 |
| 4.8 | Seat height/stand height | h7 |
| 4.19 | Overall length | 11 |
| 4.10 | Length to face of forks | 2 |
| 4.21 | Overall width | b1 |
| 4.21 | Forks section / width / length | s/e/l |
| 4.22 | Fork carriage ISO 2328 (class/form) A/B | 37671 |
| 4.23 | Fork carriage width | b3 |
| 4.31 | Ground clearance below mast | m1 |
| 4.31 | Ground clearance at centre of wheelbase | m2 |
| 4.32 | Aisle Width for pallets 1000 x 1200 crossways | Ast |
| 4.33 | Aisle width for 800 x 1200 pallet lengthways | Ast |
| 4.34 | Performances | Ast |
| 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 | |
| 5.10 | Engine | |
| 6.1 | Drive motor rating S2 60 min | |
| 6.2 | Lift motor rating at \$3 15% | |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | |
| 6.4 | | |
| | Battery voltage / capacity | |
| 6.5 | Battery weight (+/- 5%) Miscellaneous | |
| 0.1 | | |
| 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 | |

| Solid tires | | | | |
|-----------------------------|--|--|--|--|
| 412 x 178 | | | | |
| 457 x 178 | | | | |
| 2 / 2 | | | | |
| 2 | | | | |
| 1110 mm | | | | |
| 1250 mm | | | | |
| | | | | |
| 2260 mm | | | | |
| 1200 mm | | | | |
| 3740 mm | | | | |
| 2590 mm | | | | |
| 1250 mm | | | | |
| 40 mm x 125 mm x 1150 mm | | | | |
| 2 | | | | |
| 860 mm | | | | |
| 50 mm | | | | |
| 130 mm | | | | |
| 1950 mm | | | | |
| 2200 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 / 775 Ah | | | | |
| 1435 kg | | | | |
| Marfat AQ an and a antrolly | | | | |
| Mosfet AC speed controller | | | | |
| 200 bar | | | | |
| 25 l/min < 73 dB | | | | |
| < /3 OB | | | | |

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 |
|---|----|--------|--------|--------|--------|--------|---------|---------|---------|
| Mast/fork carriage tilt, forward | ۰ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mast/fork carriage tilt, backward | ٥ | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| h1 - Mast lowered height | mm | 3720 | 3900 | 4020 | 4150 | 4500 | 4590 | 4690 | 4820 |
| h2 - Mast free lift | mm | 2900 | 3080 | 3200 | 3330 | 3650 | 3770 | 3870 | 4000 |
| h3 - Mast lifting height | mm | 8010 | 8400 | 8610 | 9000 | 9500 | 10020 | 10200 | 10560 |
| h4 - Mast extended height | mm | 8840 | 9230 | 9440 | 9830 | 10475 | 10850 | 11175 | 11535 |
| Residual capacity with integrated side shift at max heigth | kg | 1250 | 1150 | 1150 | 1000 | 1000 | 750 | 750 | 650 |



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