Technical sheet:

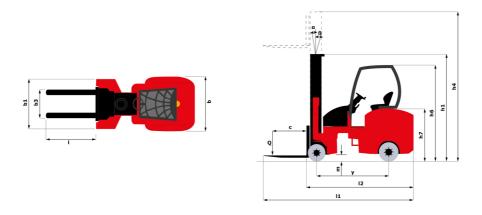
EMA II 20 HD-2





| | | EMA II 20 HD-2 | EMA II 20 HD-2 Created on 6 May 2024 at 17.32.06 010 | | | |
|------------|---|----------------|--|--|--|--|
| | Technical characteristics | | Metric | | | |
| 1.1 | Manufacturer | | Manitou | | | |
| 1.2 | Model Name | | EMA II 20 HD-2 | | | |
| 1.3 | Power source | | Electrical | | | |
| 1.4 | Operator type | | Seated | | | |
| 1.5 | Max. capacity | Q | 2000 kg | | | |
| 1.6 | Load center of gravity | c | 500 mm | | | |
| 1.8 | Load distance, centre of drive axle to fork | x | 278 mm | | | |
| 1.9 | Wheelbase | y | 1745 mm | | | |
| 1.5 | Weight | y | 1743 11111 | | | |
| 2.1 | Service weight | | 8700 kg | | | |
| 2.1 | • | | * | | | |
| | Weight on front axle (laden) / rear axle (laden) | | 6330 kg / 4080 kg | | | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 3480 kg / 5220 kg | | | |
| | 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 | 1110 mm | | | |
| 3.7 | Rear wheel gauge | b11 | 1370 mm | | | |
| | Dimensions | | | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 2260 mm | | | |
| 4.8 | Seat height/stand height | h7 | 1200 mm | | | |
| 4.19 | Overall length | I1 | 3710 mm | | | |
| 4.20 | Length to face of forks | 12 | 2560 mm | | | |
| 4.21 | Overall width | b1 | 1350 mm | | | |
| 4.22 | Forks section / width / length | s / e / l | 40 mm x 125 mm x 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 | | | |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 2000 mm | | | |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 2200 mm | | | |
| | Performances | 7.00 | 2200 11111 | | | |
| 5.1 | Travel speed (laden / unladen) | | 8.50 km/h-9 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) | | 6 % / 8 % | | | |
| 5.10 | Service brake | | Hydraulic | | | |
| 3.10 | | | Hydraulic | | | |
| <i>c</i> 1 | Engine | | 10 1.00 | | | |
| 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 / 930 Ah | | | |
| 6.5 | Battery weight (+/- 5%) | | 1300 kg | | | |
| | 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 I/min | | | |
| 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 20 HD-2 - Dimensional drawing



Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | | FLT 55 | FLT 60 | FLT 66 | FLT 76 | FLT 80 | FLT 86 | FLT 90 | FLT 100 | FLT 106 |
|--|----|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| Mast/fork carriage tilt, forward | ۰ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mast/fork carriage tilt, backward | ۰ | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| h1 - Mast lowered height | mm | 2750 | 2900 | 3150 | 3590 | 3720 | 4020 | 4150 | 4590 | 4820 |
| h2 - Mast free lift | mm | 1930 | 2080 | 2330 | 2770 | 2900 | 3200 | 3330 | 3770 | 4000 |
| h3 - Mast lifting height | mm | 5500 | 6000 | 6600 | 7620 | 8010 | 8610 | 9000 | 10020 | 10560 |
| h4 - Mast extended height | mm | 3680 | 6830 | 7430 | 8450 | 8840 | 9440 | 9830 | 11000 | 11540 |
| Residual capacity with integrated side shift at max heigth | kg | 1500 | 1500 | 1450 | 1400 | 1350 | 1300 | 1250 | 1000 | 850 |





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