Technical sheet :

EMA II 20 HD-2



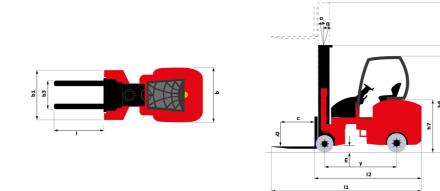


| | | EMA II 20 HD-2 GIE |
|-------|---|--------------------|
| | Technical characteristics | |
| 1.1 | Manufacturer | |
| 1.2 | Model Name | |
| 1.3 | Power source | |
| 1.4 | Operator type | |
| 1.5 | Max. capacity | Q |
| 1.6 | Load center of gravity | c |
| 1.8 | Load distance, centre of drive axle to fork | x |
| 1.9 | Wheelbase | y |
| | Weight | , , |
| 2.1 | Service weight | |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | |
| 2.3 | Weight on front axle (Inladen) / rear axle (Inladen) | |
| 2.5 | Wheels | |
| 3.1 | | |
| 3.1 | Tires type Dimensions of front wheels | |
| | | |
| 3.3 | Dimensions of rear wheels Number of front wheels / rear wheels | |
| 3.5 | | |
| 3.5.2 | Number of drive wheels | 140 |
| 3.6 | Front wheel gauge | b10 |
| 3.7 | Rear wheel gauge | b11 |
| | Dimensions | |
| 4.7 | Height of overhead guard (cabin) | h6 |
| 4.8 | Seat height/stand height | h7 |
| 4.19 | Overall length | 11 |
| 4.20 | Length to face of forks | 12 |
| 4.21 | Overall width | b1 |
| 4.22 | Forks section / width / length | s / e / l |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | |
| 4.24 | Fork carriage width | b3 |
| 4.31 | Ground clearance below mast | m1 |
| 4.32 | Ground clearance at centre of wheelbase | m2 |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast |
| | Performances | |
| 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 | |
| | Engine | |
| 6.1 | Drive motor rating S2 60 min | |
| 6.2 | Lift motor rating at S3 15% | |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | |
| 6.4 | Battery voltage / capacity | |
| 6.5 | Battery weight (+/- 5%) | |
| | Miscellaneous | |
| 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 | |
| | | |

| | Metric |
|---|--|
| | Manitou |
| | EMA II 20 HD-2 |
| | Electrical |
| | Seated |
| | 2000 kg |
| | 500 mm |
| | 278 mm |
| | 1745 mm |
| | 1745 1111 |
| | 8700 kg |
| | |
| | 6330 kg / 4080 kg |
| | 3480 kg / 5220 kg |
| | |
| | Solid tires |
| | 412 x 178 |
| | 457 x 178 |
| | 2/2 |
| | 2 |
| | 1110 mm |
| | 1370 mm |
| | |
| | 2260 mm |
| | 1200 mm |
| | 3710 mm |
| | 2560 mm |
| | 1350 mm |
| I | 40 mm x 125 mm x 1150 mm |
| | 2 |
| | |
| | 860 mm |
| | 860 mm 50 mm |
| | |
| | 50 mm |
| | 50 mm 130 mm |
| | 50 mm 130 mm 2000 mm |
| | 50 mm 130 mm 2000 mm |
| | 50 mm 130 mm 2000 mm 2200 mm |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW 9 kW |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW 9 kW DIN 43595 |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW 9 kW DIN 43595 48 V / 930 Ah |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW 9 kW DIN 43595 48 V / 930 Ah 1300 kg |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW 9 kW DIN 43595 48 V / 930 Ah |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW 9 kW DIN 43595 48 V / 930 Ah 1300 kg Mosfet AC speed controller |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW 9 kW DIN 43595 48 V / 930 Ah 1300 kg Mosfet AC speed controller 200 bar |
| | 50 mm 130 mm 2000 mm 2200 mm 8.50 km/h-9 km/h 0.35 m/s-0.45 m/s 0.40 m/s-0.36 m/s 6 % / 8 % Hydraulic 10 kW 9 kW DIN 43595 48 V / 930 Ah 1300 kg Mosfet AC speed controller 200 bar 25 l/min |

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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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