Technical sheet:

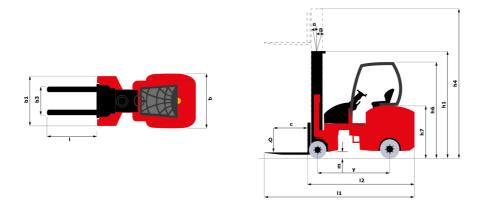
EMA II 20





| | | EMA II 20 U | EMA II 20 Created on 4 May 2024 at 5.40.04 AM 010 | | | | |
|---|---|-------------|---|--|--|--|--|
| | Technical characteristics | | Metric | | | | |
| 1.1 | Manufacturer | | Manitou | | | | |
| 1.2 | Model Name | | EMA II 20 | | | | |
| 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 | у | 1745 mm | | | | |
| | Weight | | | | | | |
| 2.1 | Service weight | | 6600 kg | | | | |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 4800 kg / 4400 kg | | | | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 2200 kg / 4400 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 152 | | | | |
| 3.5 | Number of front wheels / rear wheels | | 2/2 | | | | |
| 3.5.2 | Number of drive wheels | | 2 | | | | |
| 3.6 | Front wheel gauge | b10 | 1125 mm | | | | |
| 3.7 | Rear wheel gauge | b11 | 1200 mm | | | | |
| 3.7 | Dimensions | BIII | 1200 111111 | | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 2260 mm | | | | |
| 4.7 | Seat height/stand height | h7 | 1200 mm | | | | |
| 4.0 | Overall length | 11 | 3710 mm | | | | |
| 4.19 | Length to face of forks | 12 | 2560 mm | | | | |
| 4.20 | Overall width | b1 | 1200 mm | | | | |
| 4.21 | Forks section / width / length | s / e / l | 40 mm x 125 mm x 1150 mm | | | | |
| | - | \$7 671 | 2 | | | | |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | h2 | 2 860 mm | | | | |
| 4.24 | Fork carriage width | b3 | 50 mm | | | | |
| 4.31 | Ground clearance below mast | m1 | | | | | |
| | | | | | | | |
| | | | | | | | |
| 4.34 | | AST | 2100 mm | | | | |
| F.4 | | | 01 (1.050) (1 | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 5.10 | | | Hydraulic | | | | |
| | | | | | | | |
| | - | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | Battery voltage / capacity | | | | | | |
| 6.5 | | | 1135 kg | | | | |
| | Miscellaneous | | | | | | |
| 8.1 | Type of drive control | | · | | | | |
| 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 | | | | |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 73 dB | | | | |
| 4.32 4.33 4.34 5.1 5.2 5.3 5.7 5.10 6.1 6.2 6.3 6.4 6.5 8.1 8.2 8.3 8.4 | Ground clearance at centre of wheelbase Aisle Width for pallets 1000 x 1200 crossways Aisle width for 800 x 1200 pallet lengthways Performances Travel speed (laden / unladen) Lifting speed (laden / unladen) Lowering speed (laden / unladen) Gradeability (laden / unladen) Service brake Engine Drive motor rating S2 60 min Lift motor rating at S3 15% Battery according to DIN 43531/35/36 A, B, C Battery voltage / capacity Battery weight (+/- 5%) Miscellaneous Type of drive control Working hydraulic pressure for attachments Oil flow rate for attachments Measured/guaranteed mean noise level at the ear of the operator | m2 Ast Ast | 130 mm 1900 mm 2100 mm 2100 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 / 750 Ah 1135 kg Mosfet AC speed controller 200 bar 25 l/min < 73 dB | | | | |

EMA II 20 - Dimensional drawing



Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | | FLT 42 | FLT 45 | FLT 50 | FLT 56 | FLT 60 | FLT 66 | FLT 72 | FLT 76 | FLT 80 | FLT 86 | FLT 90 | FLT 95 | FLT 102 |
|---|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Mast/fork carriage tilt, forward | ٠ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mast/fork carriage tilt, backward | ٠ | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| h1 - Mast lowered height | mm | 2300 | 2410 | 2570 | 2750 | 2900 | 3150 | 3400 | 3590 | 3720 | 4020 | 4150 | 4500 | 4690 |
| h2 - Mast free lift | mm | 1480 | 1590 | 1750 | 1930 | 2080 | 2330 | 2580 | 2770 | 2900 | 3200 | 3330 | 3650 | 3870 |
| h3 - Mast lifting height | mm | 4200 | 4530 | 5010 | 5550 | 6000 | 6600 | 7200 | 7620 | 8010 | 8610 | 9000 | 9500 | 10200 |
| h4 - Mast extended height | mm | 5030 | 5360 | 5840 | 6380 | 6830 | 7430 | 8030 | 8450 | 8840 | 9440 | 9830 | 10475 | 11175 |
| Residual capacity with integrated side shift at max heigth | kg | 1800 | 1700 | 1600 | 1500 | 1400 | 1300 | 1200 | 1150 | 1080 | 1000 | 1000 | 900 | 750 |





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