Technical sheet:

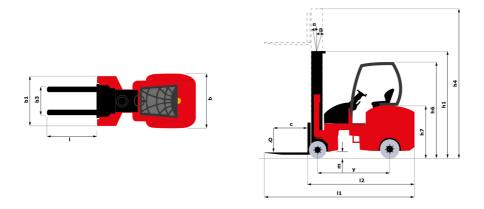
EMA II 20





| | | EMA II 20 Created on May 3, 2024 at 1.10.01 PM 010 | | | | | |
|---|-----------|--|--|--|--|--|--|
| Technical characteristics | | Metric | | | | | |
| Manufacturer | | Manitou | | | | | |
| Model Name | | EMA II 20 | | | | | |
| Power source | | Electrical | | | | | |
| Operator type | | Seated | | | | | |
| Max. capacity | Q | 2000 kg | | | | | |
| Load center of gravity | c | 500 mm | | | | | |
| Load distance, centre of drive axle to fork | X | 278 mm | | | | | |
| Wheelbase | у | 1745 mm | | | | | |
| Weight | | | | | | | |
| Service weight | | 6600 kg | | | | | |
| Weight on front axle (laden) / rear axle (laden) | | 4800 kg / 4400 kg | | | | | |
| Weight on front axle (Unladen) / rear axle (Unladen) | | 2200 kg / 4400 kg | | | | | |
| Wheels | | | | | | | |
| Tires type | | Solid tires | | | | | |
| Dimensions of front wheels | | 412 x 178 | | | | | |
| Dimensions of rear wheels | | 457 x 152 | | | | | |
| Number of front wheels / rear wheels | | 2 / 2 | | | | | |
| Number of drive wheels | | 2 | | | | | |
| | b10 | 1125 mm | | | | | |
| Front wheel gauge | b10 | 1125 mm | | | | | |
| Rear wheel gauge | DII | 1200 mm | | | | | |
| Dimensions | 16 | 2010 | | | | | |
| Height of overhead guard (cabin) | h6 | 2260 mm | | | | | |
| Seat height/stand height | h7 | 1200 mm | | | | | |
| Overall length | l1 | 3710 mm | | | | | |
| Length to face of forks | 12 | 2560 mm | | | | | |
| Overall width | b1 | 1200 mm | | | | | |
| Forks section / width / length | s / e / l | 40 mm x 125 mm x 1150 mm | | | | | |
| Fork carriage ISO 2328 (class/form) A/B | | 2 | | | | | |
| Fork carriage width | b3 | 860 mm | | | | | |
| Ground clearance below mast | m1 | 50 mm | | | | | |
| Ground clearance at centre of wheelbase | m2 | 130 mm | | | | | |
| Aisle Width for pallets 1000 x 1200 crossways | Ast | 1900 mm | | | | | |
| Aisle width for 800 x 1200 pallet lengthways | Ast | 2100 mm | | | | | |
| Performances | | | | | | | |
| Travel speed (laden / unladen) | | 9 km/h-9.50 km/h | | | | | |
| Lifting speed (laden / unladen) | | 0.35 m/s-0.45 m/s | | | | | |
| Lowering speed (laden / unladen) | | 0.40 m/s-0.36 m/s | | | | | |
| Gradeability (laden / unladen) | | 8 % / 10.50 % | | | | | |
| Service brake | | Hydraulic | | | | | |
| Engine | | | | | | | |
| Drive motor rating S2 60 min | | 10 kW | | | | | |
| Lift motor rating at S3 15% | | 9 kW | | | | | |
| Battery according to DIN 43531/35/36 A, B, C | | DIN 43595 | | | | | |
| Battery voltage / capacity | | 48 V / 750 Ah | | | | | |
| Battery weight (+/- 5%) | | 1135 kg | | | | | |
| Miscellaneous | | | | | | | |
| Type of drive control | | Mosfet AC speed controller | | | | | |
| Working hydraulic pressure for attachments | | 200 bar | | | | | |
| Oil flow rate for attachments | | 25 l/min | | | | | |
| Measured/guaranteed mean noise level at the ear of the operator | | < 73 dB | | | | | |
| Sound level at the driver's ear according to DIN 12 053 | | 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 | ۰ | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mast/fork carriage tilt, backward | ۰ | 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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