

Technical sheet :

EMA II 17



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | Metric | | Imperial | |
|---------------------------|---|-----------|----------------------------|----------|----------------------------|
| 1.1 | Manufacturer | | Manitou | | Manitou |
| 1.2 | Model Name | | EMA II 17 | | EMA II 17 |
| 1.3 | Power source | | Electrical | | Electrical |
| 1.4 | Operator type | | Seated | | Seated |
| 1.5 | Max. capacity | Q | 1700 kg | | 3748 lb |
| 1.6 | Load center of gravity | c | 500 mm | | 20 in |
| 1.8 | Load distance, centre of drive axle to fork | x | 278 mm | | 11 in |
| 1.9 | Wheelbase | y | 1745 mm | | 69 in |
| Weight | | | | | |
| 2.1 | Service weight | | 6000 kg | | 13228 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 4250 kg / 3250 kg | | 9370 lb / 7165 lb |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 2000 kg / 4000 kg | | 4409 lb / 8818 lb |
| Wheels | | | | | |
| 3.1 | Tires type | | Solid tires | | Solid tires |
| 3.2 | Dimensions of front wheels | | 412 x 152 | | 412 x 152 |
| 3.3 | Dimensions of rear wheels | | 457 x 152 | | 457 x 152 |
| 3.5 | Number of front wheels / rear wheels | | 2 / 2 | | 2 / 2 |
| 3.5.2 | Number of drive wheels | | 2 | | 2 |
| 3.6 | Front wheel gauge | b10 | 960 mm | | 38 in |
| 3.7 | Rear wheel gauge | b11 | 1080 mm | | 43 in |
| Dimensions | | | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 2260 mm | | 89 in |
| 4.8 | Seat height/stand height | h7 | 1200 mm | | 47 in |
| 4.19 | Overall length | l1 | 3710 mm | | 146 in |
| 4.20 | Length to face of forks | l2 | 2560 mm | | 101 in |
| 4.21 | Overall width | b1 | 1080 mm | | 43 in |
| 4.22 | Forks section / width / length | s / e / l | 40 mm x 100 mm x 1150 mm | | 2 in x 4 in x 45 in |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2 | | 2 |
| 4.24 | Fork carriage width | b3 | 860 mm | | 34 in |
| 4.31 | Ground clearance below mast | m1 | 50 mm | | 2 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 130 mm | | 5 in |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 1800 mm | | 71 in |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 2000 mm | | 79 in |
| Performances | | | | | |
| 5.1 | Travel speed (laden / unladen) | | 9 km/h-9.50 km/h | | 6 mph-6 mph |
| 5.2 | Lifting speed (laden / unladen) | | 0.35 m/s-0.45 m/s | | 1 ft/s-1 ft/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.40 m/s-0.36 m/s | | 1 ft/s-1 ft/s |
| 5.7 | Gradeability (laden / unladen) | | 8 % / 10.50 % | | 8 % / 10.50 % |
| 5.10 | Service brake | | Hydraulic | | Hydraulic |
| Engine | | | | | |
| 6.1 | Drive motor rating S2 60 min | | 10 kW | | 10 kW |
| 6.2 | Lift motor rating at S3 15% | | 9 kW | | 9 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN 43595 | | DIN 43595 |
| 6.4 | Battery voltage / capacity | | 48 V / 620 Ah | | 48 V / 620 Ah |
| 6.5 | Battery weight (+/- 5%) | | 1030 kg | | 2271 lb |
| Miscellaneous | | | | | |
| 8.1 | Type of drive control | | Mosfet AC speed controller | | Mosfet AC speed controller |
| 8.2 | Working hydraulic pressure for attachments | | 200 bar | | 2901 PSI |
| 8.3 | Oil flow rate for attachments | | 25 l/min | | 7 US gpm |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 73 dB | | < 73 dB |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 73 dB | | 73 dB |

EMA II 17 - Dimensional drawing



Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | | FLT 39 | FLT 42 | FLT 46 | FLT 48 | FLT 50 | FLT 52 | FLT 56 | FLT 60 | FLT 66 | FLT 72 | FLT 76 |
|---|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|
| Mast/fork carriage tilt, forward | ° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Mast/fork carriage tilt, backward | ° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| h1 - Mast lowered height | in (mm) | 87 (2210) | 90.6 (2300) | 96.1 (2440) | 98.4 (2500) | 101.2 (2570) | 103.9 (2640) | 108.3 (2750) | 114.2 (2900) | 124 (3150) | 133.9 (3400) | 141.3 (3590) |
| h2 - Mast free lift | in (mm) | 54.7 (1390) | 58.3 (1480) | 63.8 (1620) | 66.1 (1680) | 68.9 (1750) | 71.7 (1820) | 76 (1930) | 81.9 (2080) | 917.3 (23300) | 101.6 (2580) | 109.1 (2770) |
| h3 - Mast lifting height | in (mm) | 154.7 (3930) | 165.4 (4200) | 181.9 (4620) | 189 (4800) | 197.2 (5010) | 205.5 (5220) | 218.5 (5550) | 236.2 (6000) | 259.8 (6600) | 283.5 (7200) | 300 (7620) |
| h4 - Mast extended height | in (mm) | 187.4 (4760) | 198 (5030) | 214.6 (5450) | 221.7 (5630) | 229.9 (5840) | 238.2 (6050) | 251.2 (6380) | 268.9 (6830) | 292.5 (7430) | 316.1 (8030) | 332.7 (8450) |
| Residual capacity with integrated side shift at max heigh | lb (kg) | 2756 (1250) | 2866 (1300) | 2866 (1300) | 2646 (1200) | 2646 (1200) | 2646 (1200) | 2646 (1200) | 2425 (1100) | 2094 (950) | 1984 (900) | 1984 (900) |



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