

Technical sheet :

# EP 20

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|      | Technical characteristics                                       |           | Metric                   |
|------|---|-----------|--------------------------|
| 1.1  | Manufacturer  |           | Manitou                  |
| 1.2  | Model Name  |           | EP 20                    |
| 1.3  | Power source  |           | Electrical               |
| 1.4  | Operator type   |           | Pedestrian               |
| 1.5  | Max. capacity   | Q         | 2000 kg                  |
| 1.6  | Load center of gravity  | c         | 600 mm                   |
| 1.8  | Load distance, centre of drive axle to fork                     | x         | 953 mm                   |
| 1.9  | Wheelbase   | y         | 1372 mm                  |
|      | <b>Weight</b>   |           |                          |
| 2.1  | Service weight  |           | 482 kg                   |
| 2.2  | Weight on front axle (laden) / rear axle (laden)                |           | 1077 kg / 1405 kg        |
| 2.3  | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 337 kg / 145 kg          |
|      | <b>Wheels</b>   |           |                          |
| 3.1  | Tires type  |           | Bandage                  |
| 3.2  | Dimensions of front wheels                                      |           | 230 x 75                 |
| 3.3  | Dimensions of rear wheels                                       |           | 4 x (82 x 70)            |
| 3.4  | Additional wheels (dimensions)                                  |           | 2 x (100 x 40)           |
| 3.5  | Number of front wheels / rear wheels                            |           | 3x + 4                   |
| 3.6  | Front wheel gauge   | b10       | 435 mm                   |
| 3.7  | Rear wheel gauge  | b11       | 366 mm                   |
|      | <b>Dimensions</b>   |           |                          |
| 4.15 | Fork height in low position                                     | h13       | 85 mm                    |
| 4.19 | Overall length  | l1        | 1739 mm                  |
| 4.20 | Length to face of forks   | l2        | 589 mm                   |
| 4.21 | Overall width   | b1        | 680 mm                   |
| 4.22 | Forks section / width / length                                  | s / e / l | 45 mm x 175 mm x 1150 mm |
| 4.25 | Fork spread   | b5        | 540 mm                   |
| 4.32 | Ground clearance at centre of wheelbase                         | m2        | 35 mm                    |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 1939 mm                  |
| 4.35 | Turning radius  | Wa        | 1544 mm                  |
| 4.4  | Mast lift   | h3        | 125 mm                   |
| 4.9  | Height tiller min.  | h14       | 866 mm                   |
| 4.9  | Height tiller max.  | h14       | 1320 mm                  |
|      | <b>Performances</b>   |           |                          |
| 5.1  | Travel speed (laden / unladen)                                  |           | 5.80 km/h / 6 km/h       |
| 5.2  | Lifting speed (laden / unladen)                                 |           | 0.02 m/s / 0.03 m/s      |
| 5.3  | Lowering speed (laden / unladen)                                |           | 0.04 m/s / 0.02 m/s      |
| 5.7  | Gradeability (laden / unladen)                                  |           | 10 % / 25 %              |
| 5.10 | Service brake   |           | Electro magnetic         |
| 5.11 | Parking brake   |           | Handle Release           |
|      | <b>Engine</b>   |           |                          |
| 6.1  | Drive motor rating S2 60 min                                    |           | 1.20 kW                  |
| 6.2  | Lift motor rating at S3 15%                                     |           | 1 kW                     |
| 6.3  | Battery according to DIN 43531/35/36 A, B, C                    |           | DIN 43535-B              |
| 6.4  | Battery voltage / capacity                                      |           | 24 V / 180 Ah            |
| 6.5  | Battery weight (+/- 5%)   |           | 180 kg                   |
|      | <b>Miscellaneous</b>  |           |                          |
| 8.1  | Type of drive control   |           | AC                       |
| 8.4  | Measured/guaranteed mean noise level at the ear of the operator |           | < 65 dB                  |

## EP 20 - Dimensional drawing





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