

Technical sheet :

# ES 112 EASY



 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                   |           | Metric                   |
|-------|---|-----------|--------------------------|
| 1.1   | Manufacturer  |           | MANITOU                  |
| 1.2   | Model Name  |           | ES 112 Easy              |
| 1.3   | Power source  |           | Electrical               |
| 1.4   | Operator type   |           | Pedestrian               |
| 1.5   | Max. capacity   | Q         | 1200 kg                  |
| 1.6   | Load center of gravity                                      | c         | 600 mm                   |
| 1.8   | Distance from Load backrest to center of rear axle          | x         | 798 mm                   |
| 1.9   | Wheelbase   | y         | 1198 mm                  |
|       | <b>Weight</b>   |           |                          |
| 2.1   | Service weight  |           | 610 kg                   |
| 2.2   | Weight on front axle (laden) / rear axle (laden)            |           | 645 kg / 1165 kg         |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)        |           | 448 kg / 162 kg          |
|       | <b>Wheels</b>   |           |                          |
| 3.1   | Tires type  |           | Polyurethane             |
| 3.3   | Number of load wheels / Size of load wheels                 |           | 4 / 80x64                |
| 3.4   | Number of stabilizer wheels / Size of the stabilizer wheels |           | 1 / 80 x 64              |
| 3.5   | Number of front wheels / rear wheels                        |           | 2 / 4                    |
| 3.5.2 | Number of drive wheels / Size of drive wheels               |           | 1/210x70                 |
| 3.6   | Front wheel gauge   | b10       | 566 mm                   |
| 3.7   | Rear wheel gauge  | b11       | 396 mm                   |
|       | <b>Dimensions</b>   |           |                          |
| 4.2   | Mast lowered height   | h1        | 1924 mm                  |
| 4.4   | Mast lifting height   | h3        | 2700 mm                  |
| 4.5   | Mast extended height  | h4        | 3274 mm                  |
| 4.15  | Fork height in low position                                 | h13       | 85 mm                    |
| 4.19  | Overall length  | l1        | 1700 mm                  |
| 4.20  | Length to face of forks                                     | l2        | 560 mm                   |
| 4.21  | Overall width   | b1        | 800 mm                   |
| 4.22  | Forks section / width / length                              | s / e / l | 60 mm / 170 mm / 1150 mm |
| 4.24  | Fork carriage width   | b3        | 680 mm                   |
| 4.25  | Forks spread  | b5        | 560 mm                   |
| 4.31  | Ground clearance below mast                                 | m1        | 26 mm                    |
| 4.32  | Ground clearance at centre of wheelbase                     | m2        | 26 mm                    |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways               | Ast       | 2226 mm                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                | Ast       | 2169 mm                  |
| 4.35  | Turning radius  | Wa        | 1402 mm                  |
|       | <b>Performances</b>   |           |                          |
| 5.1   | Travel speed (laden / unladen)                              |           | 4.50 km/h / 5 km/h       |
| 5.2   | Lifting speed (laden / unladen)                             |           | 0.11 m/s / 0.15 m/s      |
| 5.3   | Lowering speed (laden / unladen)                            |           | 0.12 m/s / 0.12 m/s      |
| 5.8   | Max Gradeability (laden / unladen)                          |           | 6 % / 10 %               |
| 5.10  | Service brake   |           | Electro magnetic         |
|       | <b>Engine</b>   |           |                          |
| 6.1   | Drive motor rating S2 60 min                                |           | 0.65 kW                  |
| 6.2   | Lift motor rating at S3 15%                                 |           | 2.20 kW                  |
| 6.4   | Battery voltage / capacity                                  |           | 24 V / 60 Ah             |
|       | Battery technology  |           | Lithium-ion              |
| 6.5   | Battery weight (+/- 5%)                                     |           | 18 kg                    |
|       | <b>Miscellaneous</b>  |           |                          |
| 8.1   | Type of drive control                                       |           | DC                       |
| 8.4   | Sound level at the driver's ear according to DIN 12 053     |           | 65 dB                    |

## ES 112 Easy - Dimensional drawing





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