

Technical sheet :

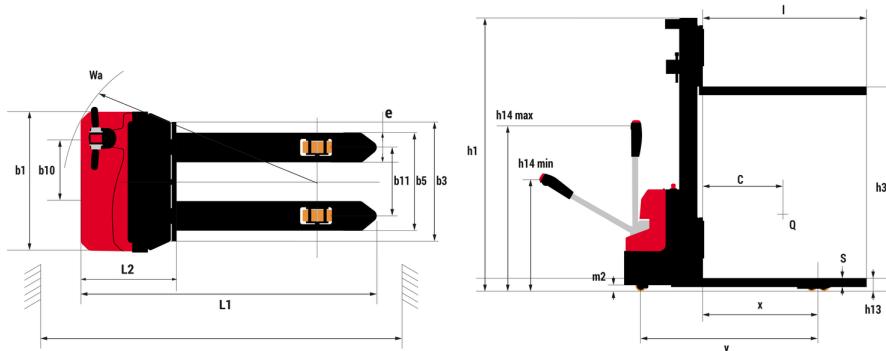
# ES 112 EASY



 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Metric                   |  |
|---------------------------|---|--------------------------|--|
| 1.1                       | Manufacturer  | MANITOU                  |  |
| 1.2                       | Model Name  | ES 112 Easy              |  |
| 1.3                       | Power source  | Electrical - Lithium     |  |
| 1.4                       | Operator type   | Pedestrian               |  |
| 1.5                       | Max. capacity   | 1200 kg                  |  |
| 1.6                       | Load center of gravity                                      | 600 mm                   |  |
| 1.8                       | Distance from Load backrest to center of rear axle          | 798 mm                   |  |
| 1.9                       | Wheelbase   | 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 cushion     |  |
| 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   | 566 mm                   |  |
| 3.7                       | Rear wheel gauge  | 396 mm                   |  |
| <b>Dimensions</b>         |   |                          |  |
| 4.15                      | Fork height in low position                                 | 85 mm                    |  |
| 4.19                      | Overall length  | 1700 mm                  |  |
| 4.20                      | Length to face of forks                                     | 560 mm                   |  |
| 4.21                      | Overall width   | 800 mm                   |  |
| 4.22                      | Forks section / width / length                              | 60 mm / 170 mm / 1150 mm |  |
| 4.24                      | Fork carriage width   | 680 mm                   |  |
| 4.25                      | Forks spread  | 560 mm                   |  |
| 4.31                      | Ground clearance below mast                                 | 26 mm                    |  |
| 4.32                      | Ground clearance at centre of wheelbase                     | 26 mm                    |  |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways               | 2226 mm                  |  |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                | 2169 mm                  |  |
| 4.35                      | Turning radius  | 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             |  |
| 6.5                       | 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



## Characteristics of masts and residual capacities

| Central Cylinder Duplex (CCD)   | CCD 27 | CCD 36 |
|---------------------------------|--------|--------|
| h1 - Mast lowered height        | mm     | 1924   |
| h3 - Mast lifting height        | mm     | 2700   |
| h4 - Mast extended height       | mm     | 3274   |
| Residual capacity at max height | kg     | 1000   |
| Height at max capacity          | mm     | 2500   |
|                                 |        | 2458   |
|                                 |        | 3600   |
|                                 |        | 4258   |
|                                 |        | 600    |
|                                 |        | 2500   |

| Central Cylinder Simplex (CCS)  | CCS 11 | CCS 15 |
|---------------------------------|--------|--------|
| h1 - Mast lowered height        | mm     | 1716   |
| h2 - Mast free lift             | mm     | 1100   |
| h3 - Mast lifting height        | mm     | 1100   |
| h4 - Mast extended height       | mm     | 1716   |
| Residual capacity at max height | kg     | 1200   |
| Height at max capacity          | mm     | 1100   |
|                                 |        | 1992   |
|                                 |        | 1475   |
|                                 |        | 1500   |
|                                 |        | 2015   |
|                                 |        | 1200   |
|                                 |        | 1500   |



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