

Technical sheet :

# **ES 112 EASY**

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 **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                  |
| Weight                    |                                                             |           |                          |
| 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          |
| Wheels                    |                                                             |           |                          |
| 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                   |
| Dimensions                |                                                             |           |                          |
| 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                      | Fork 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                  |
| Performances              |                                                             |           |                          |
| 5.1                       | Travel speed (laden / unladen)                              |           | 4.20 km/h / 4.50 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         |
| Engine                    |                                                             |           |                          |
| 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                    |
| Miscellaneous             |                                                             |           |                          |
| 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   | 2458   |
| h3 - Mast lifting height        | mm | 2700   | 3600   |
| h4 - Mast extended height       | mm | 3274   | 4258   |
| Residual capacity at max height | kg | 1000   | 600    |

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



**Head Office**

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

[www.manitou.com](http://www.manitou.com)



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