Technical sheet:

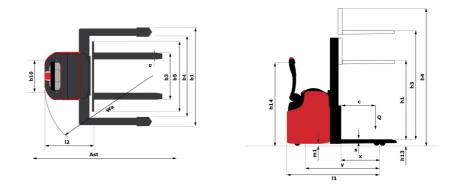
## ES 410 ET





|       |   | ES 410 ET CIE | ateu on August 1, 2025 at 11.41 PM o 1 |
|-------|---|---------------|--|
|       | Technical characteristics                                   |               | Metric                                 |
| 1.1   | Manufacturer  |               | Manitou                                |
| 1.2   | Model Name  |               | ES 410 ET                              |
| 1.3   | Power source  |               | Electrical                             |
| 1.4   | Operator type   |               | Pedestrian                             |
| 1.5   | Max. capacity   | Q             | 1000 kg                                |
| 1.6   | Load center of gravity                                      | С             | 600 mm                                 |
| 1.8   | Distance from Load backrest to center of rear axle          | X             | 720 mm                                 |
| 1.9   | Wheelbase   | у             | 1245 mm                                |
|       | Weight  |               |  |
| 2.1   | Service weight  |               | 870 kg                                 |
| 2.2   | Weight on front axle (laden) / rear axle (laden)            |               | 709 kg / 1161 kg                       |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)        |               | 609 kg / 261 kg                        |
|       | Wheels  |               |  |
| 3.1   | Tires type  |               | Polyurethane                           |
| 3.3   | Number of load wheels / Size of load wheels                 |               | 2 / 125x50                             |
| 3.4   | Number of stabilizer wheels / Size of the stabilizer wheels |               | 1 / 125x50                             |
| 3.5   | Number of front wheels / rear wheels                        |               | 2 / 2                                  |
| 3.5.2 | Number of drive wheels / Size of drive wheels               |               | 1/230x70                               |
| 3.6   | Front wheel gauge   | b10           | 517 mm                                 |
| 3.7   | Rear wheel gauge  | b11           | 380 mm                                 |
|       | Dimensions  |               |  |
| 4.15  | Fork height in low position                                 | h13           | 85 mm                                  |
| 4.19  | Overall length  | I1            | 1870 mm                                |
| 4.20  | Length to face of forks                                     | 12            | 720 mm                                 |
| 4.21  | Overall width   | b1            | 800 mm                                 |
| 4.22  | Forks section / width / length                              | s / e / l     | 60 mm / 180 mm / 1150 mm               |
| 4.24  | Fork carriage width   | b3            | 680 mm                                 |
| 4.31  | Ground clearance below mast                                 | m1            | 35 mm                                  |
| 4.32  | Ground clearance at centre of wheelbase                     | m2            | 20 mm                                  |
| 4.35  | Turning radius  | Wa            | 1400 mm                                |
|       | Performances  |               |  |
| 5.1   | Travel speed (laden / unladen)                              |               | 5.80 km/h / 6 km/h                     |
| 5.2   | Lifting speed (laden / unladen)                             |               | 0.24 m/s / 0.14 m/s                    |
| 5.3   | Lowering speed (laden / unladen)                            |               | 0.20 m/s / 0.30 m/s                    |
| 5.8   | Max Gradeability (laden / unladen)                          |               | 8 % / 10 %                             |
| 5.10  | Service brake   |               | Electro magnetic                       |
|       | Engine  |               |  |
| 6.1   | Drive motor rating S2 60 min                                |               | 1.20 kW                                |
| 6.2   | Lift motor rating at S3 15%                                 |               | 3 kW                                   |
| 6.4   | Battery voltage / capacity                                  |               | 24 V / 160 Ah                          |
| 6.5   | Battery weight (+/- 5%)                                     |               | 150 kg                                 |
|       | Miscellaneous   |               | <u> </u>                               |
| 8.1   | Type of drive control                                       |               | AC                                     |
| 8.4   | Sound level at the driver's ear according to DIN 12 053     |               | 65 dB                                  |

## ES 410 ET - Dimensional drawing



## Characteristics of masts and residual capacities

| Central Cylinder Duplex (CCD)   | CCD 26 | CCD 29 | CCD 34 |      |
|---------------------------------|--------|--------|--------|------|
| h1 - Mast lowered height        | mm     | 1780   | 1930   | 2180 |
| h2 - Mast free lift             | mm     | 140    | 140    | 140  |
| h3 - Mast lifting height        | mm     | 2630   | 2930   | 3430 |
| h4 - Mast extended height       | mm     | 3065   | 3365   | 3865 |
| Residual capacity at max height | kg     | 1000   | 1000   | 900  |

| Central Cylinder Simplex (CCS)  |    | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1930   | 2180   |
| h2 - Mast free lift             | mm | 1500   | 1750   |
| h3 - Mast lifting height        | mm | 1500   | 1750   |
| h4 - Mast extended height       | mm | 1930   | 2180   |
| Residual capacity at max height | kg | 1000   | 1000   |





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