Technical sheet:

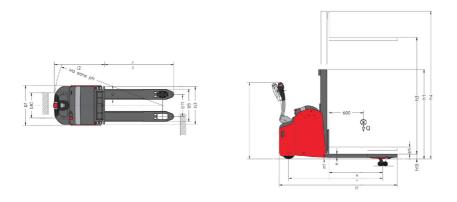
## ES 410





|       |   | <b>ES 410</b> GE | ated on August 12, 2025 at 8.03 PM OTC |
|-------|---|------------------|--|
|       | Technical characteristics                                   |                  | Metric                                 |
| 1.1   | Manufacturer  |                  | Manitou                                |
| 1.2   | Model Name  |                  | ES 410                                 |
| 1.3   | Power source  |                  | Electrical                             |
| 1.4   | Operator type   |                  | Pedestrian                             |
| 1.5   | Max. capacity   | Q                | 1000 kg                                |
| 1.6   | Load center of gravity                                      | C                | 600 mm                                 |
| 1.8   | Distance from Load backrest to center of rear axle          | X                | 723 mm                                 |
| 1.9   | Wheelbase   | у                | 1286 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  |                  | 555 Mg / 251 Mg                        |
| 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                                 |
| 3.7   | Dimensions  | 511              | 300 111111                             |
| 4.15  | Fork height in low position                                 | h13              | 85 mm                                  |
| 4.19  | Overall length  | I1               | 1875 mm                                |
| 4.19  | ·   | 12               | 725 mm                                 |
|       | Length to face of forks  Overall width                      | b1               |  |
| 4.21  |   |                  | 832 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               | 30 mm                                  |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways               | Ast              | 2605 mm                                |
| 4.34  | Aisle Width for pallets 800 x 1200 crossways                | Ast              | 2518 mm                                |
| 4.35  | Tuming radius   | Wa               | 1516 mm                                |
| 4.9   | Height tiller min. / max.                                   | h14 / h14        | 920 mm / 1425 mm                       |
|       | Performances  |                  |  |
| 5.1   | Travel speed (laden / unladen)                              |                  | 6 km/h / 6 km/h                        |
| 5.2   | Lifting speed (laden / unladen)                             |                  | 0.14 m/s / 0.24 m/s                    |
| 5.3   | Lowering speed (laden / unladen)                            |                  | 0.30 m/s / 0.20 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                                   |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C                |                  | DIN 43535-B                            |
| 6.4   | Battery voltage / capacity                                  |                  | 24 V / 160 Ah                          |
| 6.5   | Battery weight (+/- 5%)                                     |                  | 165 kg                                 |
|       | Miscellaneous   |                  |  |
| 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 - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)    |    | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1940   | 2190   | 2390   |
| h3 - Mast lifting height        | mm | 2940   | 3440   | 3840   |
| h4 - Mast extended height       | mm | 3365   | 3865   | 4265   |
| Residual capacity at max height | kg | 1000   | 900    | 750    |

| Free Lift Duplex (FLD)          |    | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1940   | 2190   |
| h2 - Mast free lift             | mm | 1510   | 1760   |
| h3 - Mast lifting height        | mm | 2935   | 3435   |
| h4 - Mast extended height       | mm | 3365   | 3865   |
| Residual capacity at max height | kg | 1000   | 900    |

| Free Lift Triplex (FLT)         | FLT 42 |      |
|---------------------------------|--------|------|
| h1 - Mast lowered height        | mm     | 1965 |
| h2 - Mast free lift             | mm     | 1470 |
| h3 - Mast lifting height        | mm     | 4240 |
| h4 - Mast extended height       | mm     | 4735 |
| Residual capacity at max height | kg     | 550  |





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