Technical sheet:

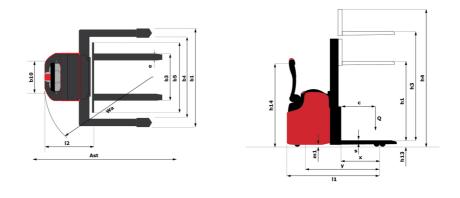
## **ES 410 LE**





|       |   | <b>ES 410 LE</b> GR | ES 410 LE Greated on August 30, 2025 at 6.00 PM 010 |  |
|-------|---|---------------------|---|--|
|       | Technical characteristics                                   |                     | Metric  |  |
| 1.1   | Manufacturer  |                     | Manitou   |  |
| 1.2   | Model Name  |                     | ES 410 LE   |  |
| 1.3   | Power source  |                     | Electrical - Lead                                   |  |
| 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                   | 723 mm  |  |
| 1.9   | Wheelbase   | У                   | 1285 mm   |  |
|       | Weight  |                     |   |  |
| 2.1   | Service weight  |                     | 920 kg  |  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)            |                     | 728 kg / 1192 kg                                    |  |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)        |                     | 644 kg / 276 kg                                     |  |
|       | Wheels  |                     | 3 3   |  |
| 3.1   | Tires type  |                     | Polyurethane  |  |
| 3.3   | Number of load wheels / Size of load wheels                 |                     | 2 / 78x78   |  |
| 3.4   | Number of castor wheels                                     |                     | 1   |  |
| 3.4   | Number of stabilizer wheels / Size of the stabilizer wheels |                     | 2 / 125x50  |  |
| 3.5   | Number of front wheels / rear wheels                        |                     | 2/2   |  |
| 3.5.2 | Number of drive wheels / Size of drive wheels               |                     | 1/230x75  |  |
| 3.6   | Front wheel gauge   | b10                 | 517 mm  |  |
| 3.7   | Rear wheel gauge  | b11                 | 978 mm  |  |
| 0.7   | Dimensions  | 511                 | 270 Hilli   |  |
| 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                  | 1106 mm   |  |
| 4.22  | Forks section / width / length                              | s / e / l           | 30 mm / 100 mm / 1150 mm                            |  |
| 4.26  | Distance between wheel arms/loading surfaces                | b4                  | 850 mm  |  |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                     | 54                  | 2B  |  |
| 4.24  | Fork carriage width   | b3                  | 720 m   |  |
| 4.25  | Space between arms  | b3                  | 850/1050/1250                                       |  |
| 4.31  | Ground clearance below mast                                 | m1                  | 35 mm   |  |
| 4.32  | Ground clearance at centre of wheelbase                     | m2                  | 20 mm   |  |
| 4.35  | Tuming radius   | Wa                  | 1465 mm   |  |
| 4.9   | Height tiller min. / max.                                   | h14 / h14           | 1050 mm / 1050 mm                                   |  |
| 4.5   | Performances  | 11147 1114          | 1000 111117 1000 111111                             |  |
| 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                                    |  |
| 3.10  | Engine  |                     | Liecuo magnetic                                     |  |
| 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 / 180 Ah                                       |  |
| 6.5   | Battery weight (+/- 5%)                                     |                     | 176 kg  |  |
| 0.0   | Miscellaneous   |                     | 170 kg  |  |
| 8.1   | Type of drive control                                       |                     | AC  |  |
| 8.4   | •   |                     | 65 dB   |  |
| 0.4   | Sound level at the driver's ear according to DIN 12 053     |                     | UU UD   |  |

## ES 410 LE - 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    | 1000   |

| 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 | ka | 1000   | 900    |

| Free Lift Triplex (FLT)         | FLT 42 |      |
|---------------------------------|--------|------|
| h1 - Mast lowered height        | mm     | 1960 |
| h2 - Mast free lift             | mm     | 1470 |
| h3 - Mast lifting height        | mm     | 4240 |
| h4 - Mast extended height       | mm     | 4240 |
| Residual capacity at max height | kg     | 550  |





## **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



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