Technical sheet :



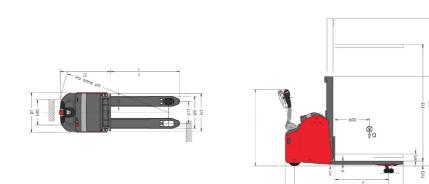




|       | Technical characteristics                                   |
|-------|---|
| 1.1   | Manufacturer  |
| 1.2   | Model Name  |
| 1.3   | Power source  |
| 1.4   | Operator type   |
| 1.5   | Max. capacity   |
| 1.6   | Load center of gravity                                      |
| 1.8   | Distance from Load backrest to center of rear axle          |
| 1.9   | Wheelbase   |
|       | Weight  |
| 2.1   | Service weight  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)            |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)        |
|       | Wheels  |
| 3.1   | Tires type  |
| 3.3   | Number of load wheels / Size of load wheels                 |
| 3.4   | Number of stabilizer wheels / Size of the stabilizer wheels |
| 3.5   | Number of front wheels / rear wheels                        |
| 3.5.2 | Number of drive wheels / Size of drive wheels               |
| 3.6   | Front wheel gauge   |
| 3.7   | Rear wheel gauge  |
|       | Dimensions  |
| 4.15  | Fork height in low position                                 |
| 4.19  | Overall length  |
| 4.20  | Length to face of forks                                     |
| 4.21  | Overall width   |
| 4.22  | Forks section / width / length                              |
| 4.24  | Fork carriage width   |
| 4.31  | Ground clearance below mast                                 |
| 4.32  | Ground clearance at centre of wheelbase                     |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways               |
| 4.34  | Aisle Width for pallets 800 x 1200 crossways                |
| 4.35  | Turning radius  |
| 4.9   | Height tiller min. / max.                                   |
|       | Performances  |
| 5.1   | Travel speed (laden / unladen)                              |
| 5.2   | Lifting speed (laden / unladen)                             |
| 5.3   | Lowering speed (laden / unladen)                            |
| 5.8   | Max Gradeability (laden / unladen)                          |
| 5.10  | Service brake   |
|       | Engine  |
| 6.1   | Drive motor rating S2 60 min                                |
| 6.2   | Lift motor rating at S3 15%                                 |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C                |
| 6.4   | Battery voltage / capacity                                  |
| 6.5   | Battery weight (+/- 5%)                                     |
|       | Miscellaneous   |
| 8.1   | Type of drive control                                       |
| 8.4   | Sound level at the driver's ear according to DIN 12 053     |
|       |   |

| ES 410    | Created on August 13, 2025 at 12:26 AM UTC |  |  |  |  |
|-----------|--|--|--|--|--|
|           | Metric                                     |  |  |  |  |
|           | Manitou                                    |  |  |  |  |
|           | ES 410                                     |  |  |  |  |
|           | Electrical                                 |  |  |  |  |
|           | Pedestrian                                 |  |  |  |  |
| Q         | 1000 kg                                    |  |  |  |  |
| С         | 600 mm                                     |  |  |  |  |
| Х         | 723 mm                                     |  |  |  |  |
| у         | 1286 mm                                    |  |  |  |  |
|           |  |  |  |  |  |
|           | 870 kg                                     |  |  |  |  |
|           | 709 kg / 1161 kg                           |  |  |  |  |
|           | 609 kg / 261 kg                            |  |  |  |  |
|           |  |  |  |  |  |
|           | Polyurethane                               |  |  |  |  |
|           | 2 / 125x50                                 |  |  |  |  |
|           | 1 / 125x50                                 |  |  |  |  |
|           | 2/2  |  |  |  |  |
|           | 1/230x70                                   |  |  |  |  |
| b10       | 517 mm                                     |  |  |  |  |
| b11       | 380 mm                                     |  |  |  |  |
|           |  |  |  |  |  |
| h13       | 85 mm                                      |  |  |  |  |
| 1         | 1875 mm                                    |  |  |  |  |
| 12        | 725 mm                                     |  |  |  |  |
| b1        | 832 mm                                     |  |  |  |  |
| s / e / l | 60 mm / 180 mm / 1150 mm                   |  |  |  |  |
| b3        | 680 mm                                     |  |  |  |  |
| m1        | 35 mm                                      |  |  |  |  |
| m2        | 30 mm                                      |  |  |  |  |
| Ast       | 2605 mm                                    |  |  |  |  |
| Ast       | 2518 mm                                    |  |  |  |  |
| Wa        | 1516 mm                                    |  |  |  |  |
| h14 / h14 | 920 mm / 1425 mm                           |  |  |  |  |
|           |  |  |  |  |  |
|           | 6 km/h / 6 km/h                            |  |  |  |  |
|           | 0.14 m/s / 0.24 m/s                        |  |  |  |  |
|           | 0.30 m/s / 0.20 m/s                        |  |  |  |  |
|           | 8 % / 10 %                                 |  |  |  |  |
|           | Electro magnetic                           |  |  |  |  |
|           |  |  |  |  |  |
|           | 1.20 kW                                    |  |  |  |  |
|           | 3 kW                                       |  |  |  |  |
|           | DIN 43535-B                                |  |  |  |  |
|           | 24 V / 160 Ah                              |  |  |  |  |
|           | 165 kg                                     |  |  |  |  |
|           |  |  |  |  |  |
|           | AC   |  |  |  |  |
|           | 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    |



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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