Technical sheet :



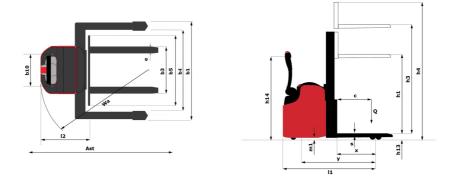




|                      | Technical characteristics                                   |  |  |
|----------------------|---|--|--|
| 1.1                  | Manufacturer  |  |  |
| 1.2                  | Model Name  |  |  |
| 1.3                  | Power source  |  |  |
| 1.4                  | Operator 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                     |  |  |
| 4.35                 | Turning radius  |  |  |
|                      | 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%                                 |  |  |
| 6.4                  | 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 ET | Created on May 3, 2024 at 6:22:23 PM UTC |  |  |  |
|-----------|--|--|--|--|
|           | Metric                                   |  |  |  |
|           | Manitou                                  |  |  |  |
|           | ES 410 ET                                |  |  |  |
|           | Electrical                               |  |  |  |
|           | Pedestrian                               |  |  |  |
| Q         | 1000 kg                                  |  |  |  |
| С         | 600 mm                                   |  |  |  |
| x         | 720 mm                                   |  |  |  |
| у         | 1245 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                                    |  |  |  |
| 11        | 1870 mm                                  |  |  |  |
| 2         | 720 mm                                   |  |  |  |
| b1        | 800 mm                                   |  |  |  |
| s/e/l     | 60 mm / 180 mm / 1150 mm                 |  |  |  |
| b3        | 680 mm                                   |  |  |  |
| m1        | 35 mm                                    |  |  |  |
| m2        | 20 mm                                    |  |  |  |
| Wa        | 1400 mm                                  |  |  |  |
|           |  |  |  |  |
|           | 5.80 km/h / 6 km/h                       |  |  |  |
|           | 0.24 m/s / 0.14 m/s                      |  |  |  |
|           | 0.20 m/s / 0.30 m/s                      |  |  |  |
|           | 8 % / 10 %                               |  |  |  |
|           | Electro magnetic                         |  |  |  |
|           | 1.20 kW                                  |  |  |  |
|           | 1.20 kW<br>3 kW                          |  |  |  |
|           | 24 V / 160 Ah                            |  |  |  |
|           | 150 kg                                   |  |  |  |
|           | 100 kg                                   |  |  |  |
|           | AC                                       |  |  |  |
|           | 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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