Technical sheet :



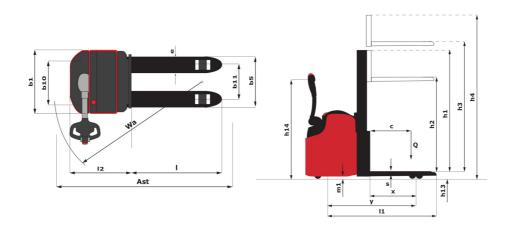




|     | Technical above and the                                     |  |
|-----|---|--|
| 1.1 | Technical characteristics                                   |  |
|     | Manufacturer  |  |
|     | Model Name  |  |
| 3   | Power source  |  |
| .4  | Operator type   |  |
| .5  | Max. capacity   |  |
| 6   | Load center of gravity                                      |  |
| .8  | Distance from Load backrest to center of rear axle          |  |
| 9   | Wheelbase   |  |
|     | Weight  |  |
| .1  | Service weight  |  |
| 2   | Weight on front axle (laden) / rear axle (laden)            |  |
| 3   | Weight on front axle (Unladen) / rear axle (Unladen)        |  |
|     | Wheels  |  |
| 1   | Tires type  |  |
| 3   | Number of load wheels / Size of load wheels                 |  |
| 4   | Number of castor wheels                                     |  |
| .4  | Number of stabilizer wheels / Size of the stabilizer wheels |  |
| 5   | Number of front wheels / rear wheels                        |  |
| .2  | Number of drive wheels / Size of drive wheels               |  |
| .6  | Front wheel gauge   |  |
| 7   | Rear wheel gauge  |  |
|     | Dimensions  |  |
| 5   | Fork height in low position                                 |  |
| 9   | Overall length  |  |
| .0  | Length to face of forks                                     |  |
| 21  | Overall width   |  |
| 22  | Forks section / width / length                              |  |
| 4   | Fork carriage width   |  |
| 31  | Ground clearance below mast                                 |  |
| 32  | Ground clearance at centre of wheelbase                     |  |
| 33  | Aisle Width for pallets 1000 x 1200 crossways               |  |
| 34  | Aisle width for 800 x 1200 pallet lengthways                |  |
| 5   | Turning radius  |  |
| 9   | Height tiller max.  |  |
|     | Performances  |  |
|     | Travel speed (laden / unladen)                              |  |
|     | Lifting speed (laden / unladen)                             |  |
| 3   | Lowering speed (laden / unladen)                            |  |
| 8   | Max Gradeability (laden / unladen)                          |  |
| 0   | Service brake   |  |
|     | Engine  |  |
|     | Drive motor rating \$2 60 min                               |  |
|     | Lift motor rating at S3 15%                                 |  |
| 2   | Battery according to DIN 43531/35/36 A, B, C                |  |
| 4   | Battery voltage / capacity                                  |  |
| 5   | Battery weight (+/- 5%)                                     |  |
|     | Miscellaneous   |  |
| 1   | Type of drive control                                       |  |
| 1   | Sound level at the driver's ear according to DIN 12 053     |  |
|     |   |  |

| ES 41     | 4 Created on August 14, 2025 at 9:58 PM UTC |
|-----------|---|
|           | Metric                                      |
|           | Manitou                                     |
|           | ES 414                                      |
|           | Electrical                                  |
|           | Pedestrian                                  |
| Q         | 1400 kg                                     |
| С         | 600 mm                                      |
| х         | 684 mm                                      |
| у         | 1245 mm                                     |
|           |   |
|           | 968 kg                                      |
|           | 800 kg / 1624 kg                            |
|           | 684 kg / 284 kg                             |
|           |   |
|           | Polyurethane                                |
|           | 2 / 82x68                                   |
|           | 1   |
|           | 2 / 125x50                                  |
|           | 2/2   |
|           | 1/230x70                                    |
| b10       | 517 mm                                      |
| b11       | 380 mm                                      |
| h13       | 87 mm                                       |
| 113<br> 1 | 1875 mm                                     |
| 12        | 724 mm                                      |
| b1        | 832 mm                                      |
| s/e/l     | 60 mm / 180 mm / 1150 mm                    |
| b3        | 680 mm                                      |
| m1        | 35 mm                                       |
| m2        | 30 mm                                       |
| Ast       | 2581 mm                                     |
| Ast       | 2490 mm                                     |
| Wa        | 1400 mm                                     |
| h14       | 1050 mm                                     |
|           |   |
|           | 6 km/h / 6 km/h                             |
|           | 0.10 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 / 180 Ah                               |
|           | 183 kg                                      |
|           |   |
|           | AC  |
|           | 65 dB                                       |

## ES 414 - 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 | 1250   | 1050   | 850    |
| Height at max capacity          | mm | 2700   | 2700   | 2700   |

| Free Lift Duplex (FLD)          |    | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1940   | 2190   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 2935   | 3435   |
| h4 - Mast extended height       | mm | 3365   | 3865   |
| Residual capacity at max height | kg | 1250   | 1000   |
| Height at max capacity          | mm | 2700   | 2700   |

| Free Lift Triplex (FLT)         |    | FLT 42 |
|---------------------------------|----|--------|
| h1 - Mast lowered height        | mm | 1890   |
| h2 - Mast free lift             | mm | 1380   |
| h3 - Mast lifting height        | mm | 4240   |
| h4 - Mast extended height       | mm | 4678   |
| Residual capacity at max height | kg | 700    |
| Height at max capacity          | mm | 2700   |



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