Technical sheet :



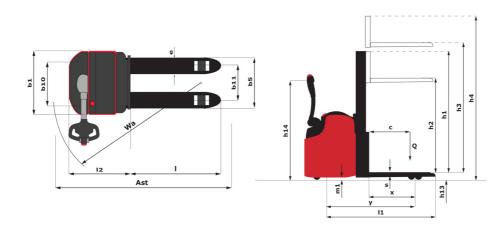




| Technical characteristics 1.1 Manufacturer 1.2 Model Name 1.3 Power source 1.4 Operator type 1.5 Max. capacity 1.6 Load center of gravity 1.8 Distance from Load backrest to center of rear axle 1.9 Wheelbase | |
|--|--|
| 1.2 Model Name 1.3 Power source 1.4 Operator type 1.5 Max. capacity 1.6 Load center of gravity 1.8 Distance from Load backrest to center of rear axle 1.9 Wheelbase | |
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| 1.9 Wheelbase | |
| | |
| | |
| 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 castor 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 800 x 1200 pallet lengthways | |
| 4.35 Turning radius | |
| 4.9 Height tiller 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% | |
| 6.2 Lift motor rating at S3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C | |
| | |
| 6.3 Battery according to DIN 43531/35/36 A, B, C | |
| 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity | |
| 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) | |

| ES 4 1 | 4 Created on August 11, 2025 at 8:22 AM 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 |
| 140 | 1/230x70 |
| b10 | 517 mm |
| b11 | 380 mm |
| h13 | 87 mm |
| 11 | 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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