Technical sheet :



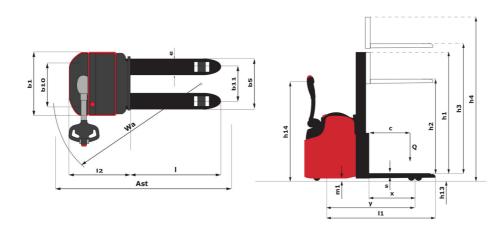




| | Technical above and the | |
|-----|---|--|
| 1.1 | Technical characteristics | |
| | Manufacturer | |
| | Model Name | |
| 3 | Power source | |
| .4 | Operator type | |
| .5 | Max. capacity | |
| 6 | Load center of gravity | |
| .8 | Distance from Load backrest to center of rear axle | |
| 9 | Wheelbase | |
| | 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 414 | Created on August 12, 2025 at 11:47 PM UTC |
|----------|--|
| | Metric |
| | Manitou |
| | ES 414 |
| | Electrical |
| | Pedestrian |
| Q | 1400 kg |
| С | 600 mm |
| X | 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 |
| 11 | 1875 mm |
| 12 | 724 mm |
| b1 | 832 mm |
| s/e/l | 60 mm / 180 mm / 1150 mm |
| b3 | 680 mm 35 mm |
| m1 m2 | 35 mm 30 mm |
| Ast | 2581 mm |
| Ast | 2381 mm |
| Wa | 1400 mm |
| h14 | 1050 mm |
| 1114 | 1030 1111 |
| | 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 |



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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