Technical sheet :



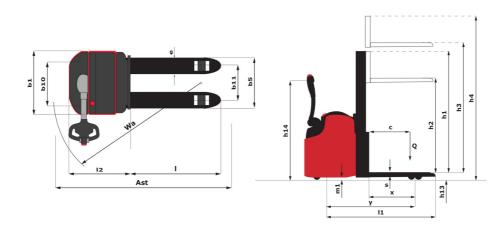




| | Technical above and the | |
|-----|---|--|
| 1.1 | Technical characteristics | |
| | Manufacturer | |
| | Model Name | |
| 3 | Power source | |
| .4 | Operator type | |
| .5 | Max. capacity | |
| 6 | Load center of gravity | |
| .8 | Distance from Load backrest to center of rear axle | |
| 9 | Wheelbase | |
| | 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 | |
| | | |

| Metric Manitou ES 414 Electrical Pedestrian Q 1400 kg c 600 mm x 684 mm y 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 11 1875 mm 12 724 mm b11 832 mm s / e / 1 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm 4st 2581 mm Ast 260 mm m1 35 mm m1 35 mm m1 35 mm <th>ES 414</th> <th>Created on August 13, 2025 at 12:27 AM UTC</th> | ES 414 | Created on August 13, 2025 at 12:27 AM UTC |
|--|--------|--|
| Manitou ES 414 Electrical Pedestrian Q 1400 kg c 600 mm x 968 kg 800 kg / 1624 kg 800 kg / 1624 kg Polyurethane 2 / 82x68 1 2 / 125x50 2 / 125x50 2 / 2 1/20x70 b10 b11 380 mm 1 1 724 mm b1 832 mm s/e /1 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 0.30 m/s / 0.24 m/s 0.30 m/s / 0.24 m/s 0.30 m/s / | | Metric |
| Electrical Pedestrian Q 1400 kg c 600 mm x 684 mm y 1245 mm 968 kg 800 kg / 1624 kg 800 kg / 1624 kg 684 kg / 284 kg 2 / 82x68 1 1 2 / 125x50 2 / 2 2 / 2 1/230x70 517 mm b10 517 mm b11 380 mm 1 1875 mm 12 724 mm b1 832 mm s / 180 mm 1150 mm 13 680 mm m1 35 mm m2 30 mm s / 180 mm 100 mm m1 35 mm m2 30 mm m4 1050 mm m4 1050 mm m2 30 mm Ast 2581 mm Ast 2490 mm Wa 1400 mm h14 1050 mm M3 kW 0.30 m/s | | |
| Pedestrian Q 1400 kg c 600 mm x 684 mm y 1245 mm 968 kg 800 kg / 1624 kg 800 kg / 1624 kg 684 kg / 284 kg Polyurethane 2 / 82x68 1 2 / 125x50 2 / 2 1//20x70 b10 517 mm b11 380 mm n1 1875 mm 12 724 mm b1 832 mm s / e / 1 60 mm / 180 mm b1 85 mm m1 35 mm m2 30 mm skt 2581 mm Ast 2581 mm Ast 2581 mm Ast 200 mm b1 100 mm / 150 mm m2 30 mm Mast 2581 mm Ast 2490 mm Wa 1400 mm h14 1050 mm Mast 2.02 m/s 8 % / 10 % 8 % / 10 % <th></th> <th>ES 414</th> | | ES 414 |
| Q 1400 kg c 600 mm x 684 mm y 1245 mm 968 kg 800 kg / 1624 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 M13 87 mm 11 1875 mm 12 724 mm b1 832 mm s / e / 1 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2581 mm Ast 2490 mm Wa 1400 mm h14 1055 mm G 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 I 120 kW 3 kW DIN 43535-B 24 V / 180 Ah 183 kg | | Electrical |
| c 600 mm x 684 mm y 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 1 1 1 1 1 1 380 mm 1 1 380 mm 1 1 380 mm 1 1 380 mm 1 380 mm 1 380 mm 1 380 mm 1 380 mm 1 380 mm 5 / e / 1 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2581 mm Ast 2581 mm 4 6 km/h / 6 km/h 0.10 ms / 0.24 m/s 0.30 ms / 0.20 m/s 8 % / 10 % Electro magnetic 1.20 kW 3 kW DIN 43535-B 24 V / 180 Ah 183 kg | | Pedestrian |
| x 684 mm y 1245 mm 968 kg 800 kg / 1624 kg 800 kg / 1624 kg 684 kg / 284 kg 800 kg / 284 kg 684 kg / 284 kg 1 2 / 82x68 1 1 2 / 125x50 2 / 2 1/230x70 510 510 517 mm 511 380 mm 832 mm 832 mm s / e / 1 60 mm / 180 mm / 1150 mm b1 832 mm s / e / 1 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 Wa 1400 mm h14 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 10 N A5355-B 24 V / 180 Ah 183 kg | Q | 1400 kg |
| y 1245 mm 968 kg 800 kg / 1624 kg 684 kg / 284 kg Polyurethane 2 / 82x68 1 1 2 / 125x50 2 / 2 1/230x70 b10 510 510 510 510 510 510 511 380 mm 51 380 mm 51 380 mm 51 387 mm 11 387 mm 11 387 mm 12 724 mm 51 832 mm 53 680 mm m1 35 mm m2 30 mm Ast 2480 mm Wa 1400 mm 150 mm 54 560 mm 150 mm 57 mm 150 mm 150 mm 58 100 mm 150 mm 150 mm 150 mm 150 mm 12 100 mm 150 mm 150 mm 150 mm 150 mm 150 mm 150 mm 150 mm 100 mm 150 mm 100 mm | С | 600 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 11 1380 mm 12 724 mm b1 832 mm s / e / 1 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2490 mm Wa 14 1050 mm Math / 6 km/h 0.10 m/s / 0.24 m/s 0.30 m/s / 0.20 m/s 8 % / 10 % Elector magnetic 1.20 kW 3 kW DIN 43535-B 24 V / 180 Ah 183 kg | х | 684 mm |
| 800 kg / 1624 kg 684 kg / 284 kg Polyurethane 2 / 82x68 1 2 / 125x50 2 / 2 1/230x70 b10 517 mm b11 380 mm 11 12 724 mm b1 87 mm 11 1875 mm 12 724 mm b1 832 mm s / e / 1 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2490 mm Wa 14 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 <td>у</td> <td>1245 mm</td> | у | 1245 mm |
| 800 kg / 1624 kg 684 kg / 284 kg Polyurethane 2 / 82x68 1 2 / 125x50 2 / 2 1/230x70 b10 517 mm b11 380 mm 11 12 724 mm b1 87 mm 11 1875 mm 12 724 mm b1 832 mm s / e / 1 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2490 mm Wa 14 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 <td></td> <td></td> | | |
| 684 kg / 284 kg Polyurethane 2 / 82x68 1 2 / 125x50 2 / 2 1/230x70 b10 517 mm b11 380 mm 11 1/230x70 b10 517 mm b11 380 mm 11 1875 mm 12 724 mm b1 83 mm s / e / I 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2490 mm Wa 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 | | 968 kg |
| Polyurethane 2 / 82x68 1 2 / 125x50 2 / 2 1/230x70 b10 517 mm b11 380 mm 11 120x70 b11 380 mm 11 13875 mm 12 724 mm b1 832 mm s / e / I 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2490 mm Wa 1400 mm 14 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 | | |
| 2 / 82x68 1 2 / 125x50 2 / 2 1/230x70 b10 517 mm b11 380 mm 11 12 724 mm b1 87 mm 12 724 mm b1 832 mm s / e / I 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2490 mm Wa 1400 mm 150 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 | | 684 kg / 284 kg |
| 2 / 82x68 1 2 / 125x50 2 / 2 1/230x70 b10 517 mm b11 380 mm 11 12 724 mm b1 87 mm 12 724 mm b1 832 mm s / e / I 60 mm / 180 mm / 1150 mm b3 680 mm m1 35 mm m2 30 mm Ast 2581 mm Ast 2490 mm Wa 1400 mm 150 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 | | |
| 1 2 / 125x50 2 / 2 1/230x70 b10 517 mm b11 380 mm 4 11 380 mm 6 11 11 12 724 mm b1 832 mm s / e / 1 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 | | |
| 2 / 125x50 2 / 2 1/230x70 b10 517 mm b11 380 mm h13 87 mm l1 1875 mm l2 724 mm b1 832 mm s / e / I 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 G 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 | | |
| 2 / 2 1/230x70 b10 517 mm b11 380 mm h13 87 mm l1 1875 mm l2 724 mm b1 832 mm s / e / I 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 IO 0.10 m/s / 0.24 m/s IO 0.30 m/s / 0.20 m/s 8 % / 10 % Electro magnetic IO 1.20 kW 3 kW IO IN 43535-B 24 V / 180 Ah 183 kg | | - |
| 1/230x70 b10 517 mm b11 380 mm h13 87 mm l1 1875 mm l2 724 mm b1 832 mm s / e / I 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 S / e / I 6 km/h / 6 km/h 0.10 m/s / 0.24 m/s 0.30 m/s / 0.20 m/s B % / 10 % Electro magnetic 1.20 kW 3 kW DIN 43535-B 24 V / 180 Ah 183 kg 183 kg | | |
| b10 517 mm b11 380 mm h13 87 mm l1 1875 mm l2 724 mm b1 832 mm s / e / I 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 0.30 m/s / 0.24 m/s 0.30 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 | | |
| b11 380 mm h13 87 mm l1 1875 mm l2 724 mm b1 832 mm s / e / I 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 0.30 m/s / 0.24 m/s 0.30 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 AC | | |
| h13 87 mm l1 1875 mm l2 724 mm b1 832 mm s / e / I 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 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 | | |
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| 11 1875 mm 12 724 mm b1 832 mm s / e / I 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 | | |
| 12 724 mm b1 832 mm s / e / I 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 JIN 43535-B 24 V / 180 Ah 183 kg AC AC | | |
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| s / e / I 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 AC | | |
| 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 | | |
| 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 183 kg | | |
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| 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 11.20 kW J L20 kW 3 kG J L20 kW < | | |
| 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 Ast of the second | | |
| Wa 1400 mm h14 1050 mm 6 km/h / 6 km/h 0.00 m/s 0.10 m/s / 0.24 m/s 0.30 m/s / 0.20 m/s 0.30 m/s / 0.20 m/s 8 % / 10 % Electro magnetic 1.20 kW 3 kW 1.20 kW 3 kW 1.83 kg AC AC | | |
| 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 | | |
| 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 | | |
| 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 | 1114 | |
| 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 | | 6 km/h / 6 km/h |
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| 1.20 kW 3 kW DIN 43535-B 24 V / 180 Ah 183 kg AC | | |
| 3 kW DIN 43535-B 24 V / 180 Ah 183 kg AC | | |
| DIN 43535-B 24 V / 180 Ah 183 kg AC | | 1.20 kW |
| 24 V / 180 Ah 183 kg AC | | 3 kW |
| 183 kg AC | | DIN 43535-B |
| AC | | 24 V / 180 Ah |
| | | 183 kg |
| | | |
| 65 dB | | 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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