

Technical sheet :

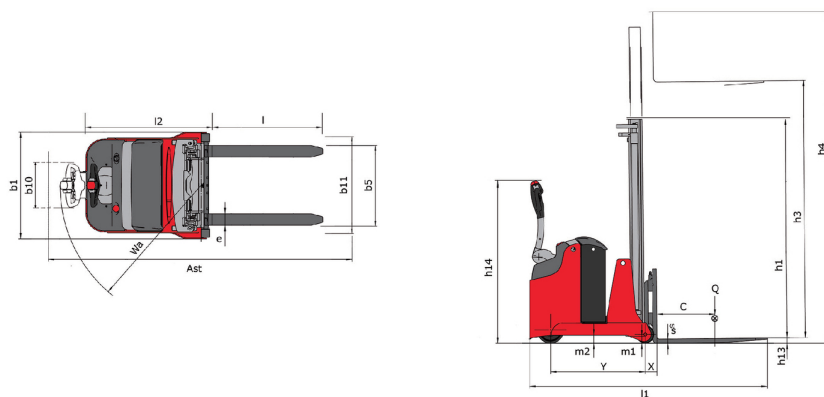
ES-C 510



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| Technical characteristics | | | Metric |
|---------------------------|---|-----------|------------------------|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ES-C 510 |
| 1.3 | Power source | | Electrical - Lead |
| 1.4 | Operator type | | Pedestrian |
| 1.5 | Max. capacity | Q | 1000 kg |
| 1.6 | Load center of gravity | c | 500 mm |
| 1.8 | Distance from Load backrest to center of rear axle | x | 101 mm |
| 1.9 | Wheelbase | y | 1047 mm |
| Weight | | | |
| 2.1 | Service weight | | 1400 kg |
| Wheels | | | |
| 3.1 | Tires type | | Polyurethane cushion |
| 3.3 | Number of load wheels / Size of load wheels | | 2 / 150x70 |
| 3.5 | Number of front wheels / rear wheels | | 1 / 2 |
| 3.5.2 | Number of drive wheels / Size of drive wheels | | 1/230x70 |
| 3.7 | Rear wheel gauge | b11 | 826 mm |
| Dimensions | | | |
| 4.19 | Overall length | l1 | 2285 mm |
| 4.20 | Length to face of forks | l2 | 1335 mm |
| 4.21 | Overall width | b1 | 923 mm |
| 4.22 | Forks section / width / length | s / e / l | 30 mm / 90 mm / 950 mm |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2B |
| 4.24 | Fork carriage width | b3 | 750 mm |
| 4.31 | Ground clearance below mast | m1 | 60 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 69 mm |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 2825 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 2935 mm |
| 4.35 | Turning radius | Wa | 1360 mm |
| 4.9 | Height tiller min. / max. | h14 | 830 mm / 1385 mm |
| Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 6 km/h / 6 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.18 m/s / 0.30 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.27 m/s / 0.22 m/s |
| 5.8 | Max Gradeability (laden / unladen) | | 7 % / 10 % |
| 5.10 | Service brake | | Electro magnetic |
| Engine | | | |
| 6.1 | Drive motor rating S2 60 min | | 1.50 kW |
| 6.2 | Lift motor rating at S3 15% | | 3 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN 43535-B |
| 6.4 | Battery voltage / capacity | | 24 V / 180 Ah |
| 6.5 | Battery weight (+/- 5%) | | 175 kg |
| Miscellaneous | | | |
| 8.1 | Type of drive control | | AC |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 65 dB |

ES-C 510 - Dimensional drawing



Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS) | | CCS 15 | CCS 17 |
|---|----|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 4 | 4 |
| β - Mast/fork carriage tilt, backward | ° | 6 | 6 |
| h1 - Mast lowered height | mm | 1932 | 2182 |
| h2 - Mast free lift | mm | 1420 | 1670 |
| h3 - Mast lifting height | mm | 1500 | 1700 |
| h4 - Mast extended height | mm | 2030 | 2280 |
| Residual capacity at max height | kg | 1000 | 1000 |

| Full Visibility Duplex (FVD) | | FVD 29 | FVD 34 | FVD 38 |
|---|----|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 4 | 4 | 4 |
| β - Mast/fork carriage tilt, backward | ° | 6 | 6 | 6 |
| h1 - Mast lowered height | mm | 1932 | 2182 | 2382 |
| h3 - Mast lifting height | mm | 2900 | 3400 | 3800 |
| h4 - Mast extended height | mm | 3460 | 3960 | 4360 |
| Residual capacity at max height | kg | 1000 | 1000 | 900 |

| Free Lift Duplex (FLD) | | FLD 29 | FLD 34 |
|---|----|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 4 | 4 |
| β - Mast/fork carriage tilt, backward | ° | 6 | 6 |
| h1 - Mast lowered height | mm | 1932 | 2182 |
| h2 - Mast free lift | mm | 1420 | 1670 |
| h3 - Mast lifting height | mm | 2900 | 3400 |
| h4 - Mast extended height | mm | 3460 | 3960 |
| Residual capacity at max height | kg | 1000 | 1000 |

| Free Lift Triplex (FLT) | | FLT 42 |
|---|----|--------|
| α - Mast/fork carriage tilt, forward | ° | 4 |
| β - Mast/fork carriage tilt, backward | ° | 6 |
| h1 - Mast lowered height | mm | 1890 |
| h2 - Mast free lift | mm | 1380 |
| h3 - Mast lifting height | mm | 4200 |
| h4 - Mast extended height | mm | 4770 |
| Residual capacity at max height | kg | 800 |



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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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