Technical sheet:

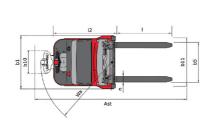
ES-C 510

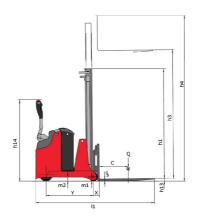




| | | | ES-C 510 Cleated Oil | April 20, 2024 at 9.20.13 AWI 010 |
|-------|---|--------------|-------------------------|-----------------------------------|
| | Technical characteristics | | Metric | Imperial |
| 1.1 | Manufacturer | | Manitou | Manitou |
| 1.2 | Model Name | | ES 510 GPF | ES 510 GPF |
| 1.3 | Power source | | Electrical | Electrical |
| 1.4 | Operator type | | Pedestrian | Pedestrian |
| 1.5 | Max. capacity | Q | 1000 kg | 2205 lb |
| 1.6 | Load center of gravity | С | 500 mm | 20 in |
| 1.8 | Distance from Load backrest to center of rear axle | Х | 101 mm | 4 in |
| 1.9 | Wheelbase | у | 1047 mm | 41 in |
| | Weight | | | |
| 2.1 | Service weight | | 1388 kg | 3060 lb |
| | Wheels | | | |
| 3.1 | Tires type | | Polyurethane | Polyurethane |
| 3.3 | Number of load wheels / Size of load wheels | | 2 / 150x70 | 2 / 150x70 |
| 3.5 | Number of front wheels / rear wheels | | 1/2 | 1/2 |
| 3.5.2 | Number of drive wheels / Size of drive wheels | | 1/230x70 | 1/230x70 |
| 3.7 | Rear wheel gauge | b11 | 826 mm | 33 in |
| | Dimensions | | | |
| 4.19 | Overall length | l1 | 2278 mm | 90 in |
| 4.20 | Length to face of forks | 12 | 1328 mm | 52 in |
| 4.21 | Overall width | b1 | 923 mm | 36 in |
| 4.22 | Forks section / width / length | s / e / I | 35 mm / 100 mm / 800 mm | 1 in / 4 in / 31 in |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2B | 2B |
| 4.24 | Fork carriage width | b3 | 750 mm | 30 in |
| 4.31 | Ground clearance below mast | m1 | 60 mm | 2 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 69 mm | 3 in |
| 4.35 | Turning radius | Wa | 1450 mm | 57 in |
| 4.9 | Height tiller min. / max. | h14 / h14 | 830 mm / 1385 mm | 33 in / 55 in |
| | Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 4.50 km/h / 4.50 km/h | 3 mph / 3 mph |
| 5.2 | Lifting speed (laden / unladen) | | 0.30 m/s / 0.18 m/s | 0.98 ft/s / 0.59 ft/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.22 m/s / 0.27 m/s | 0.72 ft/s / 0.89 ft/s |
| 5.8 | Max Gradeability (laden / unladen) | | 7 % / 10 % | 7 % / 10 % |
| 5.10 | Service brake | | Electro magnetic | Electro magnetic |
| | Engine | | | |
| 6.1 | Drive motor rating S2 60 min | | 1.50 kW | 1.50 kW |
| 6.2 | Lift motor rating at S3 15% | | 3 kW | 3 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN 43535-B | DIN 43535-B |
| 6.4 | Battery voltage / capacity | | 24 V / 375 Ah | 24 V / 375 Ah |
| 6.5 | Battery weight (+/- 5%) | | 293 kg | 646 lb |
| | Miscellaneous | | | |
| 8.1 | Type of drive control | | AC | AC |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 65 dB | 65 dB |

ES-C 510 - Dimensional drawing





Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS) | | CCS 15 | CCS 17 |
|---------------------------------|---------|-------------|-------------|
| h1 - Mast lowered height | in (mm) | 76 (1931) | 85.9 (2181) |
| h2 - Mast free lift | in (mm) | 55.9 (1420) | 65.7 (1670) |
| h3 - Mast lifting height | in (mm) | 55.9 (1420) | 65.7 (1670) |
| h4 - Mast extended height | in (mm) | 81.5 (2070) | 91.3 (2320) |
| Residual capacity at max height | lb (kg) | 2205 (1000) | 2205 (1000) |

| Full Visibility Duplex (FVD) | | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|---------|--------------|--------------|--------------|
| h1 - Mast lowered height | in (mm) | 76 (1931) | 85.9 (2181) | 93.7 (2381) |
| h3 - Mast lifting height | in (mm) | 112.2 (2850) | 131.9 (3350) | 147.6 (3750) |
| h4 - Mast extended height | in (mm) | 137.8 (3500) | 157.5 (4000) | 173.2 (4400) |
| Residual capacity at max height | lb (kg) | 2205 (1000) | 2205 (1000) | 1984 (900) |

| Free Lift Duplex (FLD) | | FLD 29 | FLD 34 |
|---------------------------------|---------|--------------|--------------|
| h1 - Mast lowered height | in (mm) | 76 (1931) | 85.9 (2181) |
| h2 - Mast free lift | in (mm) | 55.9 (1420) | 65.7 (1670) |
| h3 - Mast lifting height | in (mm) | 112.2 (2850) | 132.1 (3355) |
| h4 - Mast extended height | in (mm) | 137.8 (3500) | 157.5 (4000) |
| Residual capacity at max height | lb (kg) | 2205 (1000) | 2205 (1000) |

| Free Lift Triplex (FLT) | | FLT 42 |
|---------------------------------|---------|--------------|
| h1 - Mast lowered height | in (mm) | 77 (1956) |
| h2 - Mast free lift | in (mm) | 54.3 (1380) |
| h3 - Mast lifting height | in (mm) | 163.8 (4160) |
| h4 - Mast extended height | in (mm) | 189.4 (4810) |
| Residual capacity at max height | lb (kg) | 1764 (800) |





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