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  |
|       | Weight   |
| 2.1   | Service weight   |
|       | Wheels   |
| 3.1   | Tires type   |
| 3.3   | Number of load wheels / Size of load wheels              |
| 3.5   | Number of front wheels / rear wheels                     |
| 3.5.2 | Number of drive wheels / Size of drive wheels            |
| 3.7   | Rear wheel gauge   |
|       | Dimensions   |
| 4.19  | Overall length   |
| 4.20  | Length to face of forks                                  |
| 4.21  | Overall width  |
| 4.22  | Forks section / width / length                           |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                  |
| 4.24  | Fork carriage width                                      |
| 4.31  | Ground clearance below mast                              |
| 4.32  | Ground clearance at centre of wheelbase                  |
| 4.35  | Tuming radius  |
| 4.9   | Height tiller min. / 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%                              |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C             |
| 6.4   | Battery voltage / capacity                               |
| 6.5   | Battery weight (+/- 5%)                                  |
| 0.0   | Miscellaneous  |
| 8.1   | Type of drive control                                    |
| 8.4   | Sound level at the driver's ear according to DIN 12 053  |
| 0.4   | Sound level at the driver's car according to Dily 12 000 |

| ES-C 510 | Created on 15 May 2024 at 08:03:14 UTC |
|----------|--|
|          | Metric                                 |
|          | Manitou                                |
|          | ES 510 GPF                             |
|          | Electrical                             |
|          | Pedestrian                             |
| Q        | 1000 kg                                |
| С        | 500 mm                                 |
| x        | 101 mm                                 |
| у        | 1047 mm                                |
|          |  |
|          | 1388 kg                                |
|          |  |
|          | Polyurethane                           |
|          | 2 / 150x70                             |
|          | 1/2                                    |
|          | 1/230x70                               |
| b11      | 826 mm                                 |
|          |  |
| 11       | 2278 mm                                |
| 12       | 1328 mm                                |

923 mm

35 mm / 100 mm / 800 mm 2B

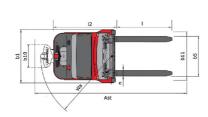
750 mm 60 mm

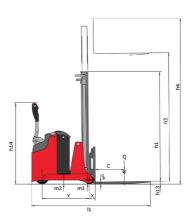
69 mm

1450 mm

830 mm / 1385 mm 4.50 km/h / 4.50 km/h 0.30 m/s / 0.18 m/s 0.22 m/s / 0.27 m/s 7 % / 10 % Electro magnetic 1.50 kW 3 kW DIN 43535-B 24 V / 375 Ah 293 kg AC 65 dB

## ES-C 510 - Dimensional drawing





11 12 b1

s / e / l

b3

m1 m2

h14 / h14

Wa

## Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS)  |    | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1931   | 2181   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 1420   | 1670   |
| h4 - Mast extended height       | mm | 2070   | 2320   |
| Residual capacity at max height | kg | 1000   | 1000   |

| Full Visibility Duplex (FVD)    |    | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1931   | 2181   | 2381   |
| h3 - Mast lifting height        | mm | 2850   | 3350   | 3750   |
| h4 - Mast extended height       | mm | 3500   | 4000   | 4400   |
| Residual capacity at max height | kg | 1000   | 1000   | 900    |

| Free Lift Duplex (FLD)          |    | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1931   | 2181   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 2850   | 3355   |
| h4 - Mast extended height       | mm | 3500   | 4000   |
| Residual capacity at max height | kg | 1000   | 1000   |

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



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