Technical sheet:

## ES $7204 W$



Lay MANITOU

|  | Technical characteristics |  | Metric |
| :---: | :---: | :---: | :---: |
| 1.1 | Manufacturer |  | MANITOU |
| 1.2 | Model Name |  | ES 720 4W |
| 1.3 | Power source |  | Electrical |
| 1.4 | Operator type |  | Pedestrian |
| 1.5 | Max. capacity | Q | 2000 kg |
| 1.6 | Load center of gravity | c | 600 mm |
| 1.8 | Load distance, centre of drive axle to fork (low/raised) - Low position | x | 690 mm |
| 1.9 | Wheelbase | y | 1194 mm |
|  | Wheels |  |  |
| 3.1 | Tires type |  | Polyurethane |
| 3.4 | Dimensions of castor wheels |  | $125 \times(2 \times 50)$ |
| 3.5 | Number of front wheels / rear wheels |  | $5 / 4$ |
| 3.5.2 | Number of drive wheels |  | 1 |
| 3.6 | Front wheel gauge | b10 | 878 mm |
| 3.7 | Rear wheel gauge | b11 | 1610 mm |
|  | Dimensions |  |  |
| 4.15 | Fork height in low position | h13 | 50 mm |
| 4.19 | Overall length | 11 | 1775 mm |
| 4.20 | Length to face of forks | 12 | 825 mm |
| 4.21 | Overall width | b1 | 1810 mm |
| 4.22 | Forks section / width / length | s/e/l | $40 \mathrm{~mm} / 120 \mathrm{~mm} / 1150 \mathrm{~mm}$ |
| 4.26 | Distance between wheel arms/loading surfaces | b4 | 1450 mm |
| 4.24 | Fork carriage width | b3 | 1410 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 50 mm |
| 4.35 | Tuming radius | Wa | 1476 mm |
| 4.9 | Height tiller min. / max. | h14 / h14 | $1030 \mathrm{~mm} / 1490 \mathrm{~mm}$ |
|  | Performances |  |  |
| 5.1 | Travel speed (laden / unladen) |  | $6 \mathrm{~km} / \mathrm{h} / 6 \mathrm{~km} / \mathrm{h}$ |
| 5.2 | Lifting speed (laden / unladen) |  | $0.14 \mathrm{~m} / \mathrm{s} / 0.24 \mathrm{~m} / \mathrm{s}$ |
| 5.3 | Lowering speed (laden / unladen) |  | $0.30 \mathrm{~m} / \mathrm{s} / 0.20 \mathrm{~m} / \mathrm{s}$ |
| 5.10 | Service brake |  | Electro magnetic |
|  | Engine |  |  |
| 6.1 | Drive motor rating S2 60 min |  | 1.20 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 |  | $24 \mathrm{~V} / 160 \mathrm{Ah}$ |
| 6.4.1 | Battery max. capacity |  | 250 A |
| 6.5 | Battery weight (+/-5\%) |  | 165 kg |
| 6.5.1 | Battery max. weight |  | 215 kg |
|  | Miscellaneous |  |  |
| 8.1 | Type of drive control |  | Variator |
| 8.4 | Sound level at the driver's ear according to DIN 12053 |  | 70 dB |

ES 720 4W - Dimensional drawing


Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS) |  | CCS 15 | CCS 17 |
| :--- | :---: | :---: | :---: | :---: |
| h1 - Mast lowered height | mm | 1939 | 2189 |
| h3 - Mast lifting height | mm | 1466 | 1716 |
| h4 - Mast extended height | mm | 1946 | 2196 |
| Residual capacity at max height | kg | 2000 | 2000 |
| Height at max capacity | mm | 1510 | 1760 |


| Full Visibility Duplex (FVD) |  | FVD 29 | FVD 34 | FVD 38 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| h1 - Mast lowered height | mm | 1939 | 2189 | 2389 |
| h3 - Mast lifting height | mm | 2896 | 3396 | 3796 |
| h4 - Mast extended height | mm | 3376 | 2876 | 4276 |
| Residual capacity at max height | kg | 2000 | 1800 | 1600 |
| Height at max capacity | mm | 2940 |  |  |


| Free Lift Duplex (FLD) |  | FLD 29 | FLD 34 |
| :--- | ---: | :---: | :---: |
| h1 - Mast lowered height | mm | 1939 | 2189 |
| h2 - Mast free lift | mm | 1466 | 1716 |
| h3 - Mast lifting height | mm | 2891 | 3391 |
| h4 - Mast extended height | mm | 3371 | 3871 |
| Residual capacity at max height | kg | 2000 | 1700 |
| Height at max capacity | mm | 2930 |  |


| Free Lift Tiplex (FLT) |  | FLT 42 |
| :--- | :---: | :---: |
| h1 - Mast lowered height | mm | 1897 |
| h2 - Mast free lift | mm | 1426 |
| h3 - Mast lifting height | mm | 4206 |
| h4 - Mast extended height | mm | 4709 |
| Residual capacity at max height | kg | 1300 |

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