

Technical sheet :

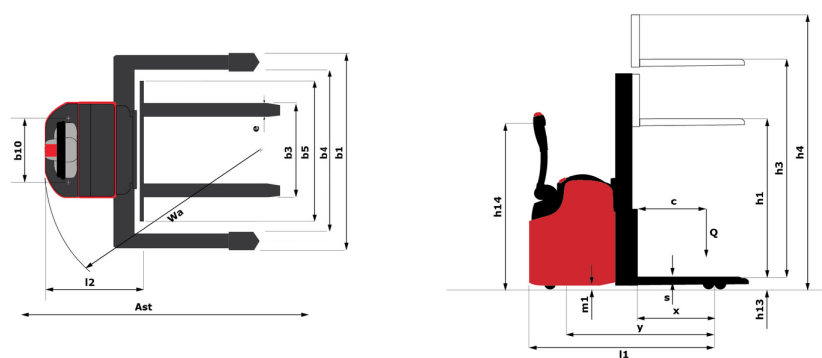
# ES 720 4W



 **MANITOU**  
HANDLING YOUR WORLD

|       | 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 x (2x50)             |
| 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  | l1        | 1775 mm                  |
| 4.20  | Length to face of forks   | l2        | 825 mm                   |
| 4.21  | Overall width   | b1        | 1810 mm                  |
| 4.22  | Forks section / width / length  | s / e / l | 40 mm / 120 mm / 1150 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  | Turning radius  | Wa        | 1476 mm                  |
| 4.9   | Height tiller min. / max.   | h14 / h14 | 1030 mm / 1490 mm        |
|       | Performances  |           |                          |
| 5.1   | Travel speed (laden / unladen)  |           | 6 km/h / 6 km/h          |
| 5.2   | Lifting speed (laden / unladen)   |           | 0.14 m/s / 0.24 m/s      |
| 5.3   | Lowering speed (laden / unladen)  |           | 0.30 m/s / 0.20 m/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 V / 160 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 12 053                 |           | 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 Triplex (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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