

Technical sheet :

# ES 720



| Technical characteristics |   | Metric    |                          |
|---------------------------|---|-----------|--------------------------|
| 1.1                       | Manufacturer  |           | Manitou                  |
| 1.2                       | Model Name  |           | ES 720                   |
| 1.3                       | Power source  |           | Electrical - Lead        |
| 1.4                       | Operator type   |           | Pedestrian               |
| 1.5                       | Max. capacity   | Q         | 2000 kg                  |
| 1.6                       | Load center of gravity                                      | c         | 600 mm                   |
| 1.8                       | Distance from Load backrest to center of rear axle          | x         | 665 mm                   |
| 1.9                       | Wheelbase   | y         | 1104 mm                  |
| <b>Weight</b>             |   |           |                          |
| 2.1                       | Service weight  |           | 1420 kg                  |
| <b>Wheels</b>             |   |           |                          |
| 3.1                       | Tires type  |           | Polyurethane cushion     |
| 3.3                       | Number of load wheels / Size of load wheels                 |           | 2 / 125 x 50             |
| 3.4                       | Number of castor wheels                                     |           | 1                        |
| 3.4                       | Number of stabilizer wheels / Size of the stabilizer wheels |           | 2 / 254 x 50             |
| 3.5                       | Number of front wheels / rear wheels                        |           | 3 / 4                    |
| 3.5.2                     | Number of drive wheels / Size of drive wheels               |           | 1/254 x 50               |
| 3.6                       | Front wheel gauge   | b10       | 878 mm                   |
| 3.7                       | Rear wheel gauge  | b11       | 395 mm                   |
| <b>Dimensions</b>         |   |           |                          |
| 4.15                      | Fork height in low position                                 | h13       | 90 mm                    |
| 4.19                      | Overall length  | l1        | 1911 mm                  |
| 4.20                      | Length to face of forks                                     | l2        | 761 mm                   |
| 4.21                      | Overall width   | b1        | 1080 mm                  |
| 4.22                      | Forks section / width / length                              | s / e / l | 70 mm / 185 mm / 1150 mm |
| 4.24                      | Fork carriage width   | b3        | 752 mm                   |
| 4.31                      | Ground clearance below mast                                 | m1        | 30 mm                    |
| 4.32                      | Ground clearance at centre of wheelbase                     | m2        | 30 mm                    |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways               | Ast       | 2335 mm                  |
| 4.34                      | Aisle Width for pallets 800 x 1200 crossways                | Ast       | 2336 mm                  |
| 4.35                      | Turning radius  | Wa        | 1468 mm                  |
| 4.9                       | Height tiller min. / max.                                   | h14       | 1030 mm / 1490 mm        |
| <b>Performances</b>       |   |           |                          |
| 5.1                       | Travel speed (laden / unladen)                              |           | 6 km/h / 6 km/h          |
| 5.2                       | Lifting speed (laden / unladen)                             |           | 0.11 m/s / 0.20 m/s      |
| 5.3                       | Lowering speed (laden / unladen)                            |           | 0.22 m/s / 0.21 m/s      |
| 5.8                       | Max Gradeability (laden / unladen)                          |           | 5% / 8%                  |
| 5.10                      | Service brake   |           | Electro magnetic         |
| <b>Engine</b>             |   |           |                          |
| 6.1                       | Drive motor rating S2 60 min                                |           | 2 kW                     |
| 6.2                       | Lift motor rating at S3 15%                                 |           | 4 kW                     |
| 6.3                       | Battery according to DIN 43531/35/36 A, B, C                |           | DIN 43535-B              |
| 6.4                       | Battery voltage / capacity                                  |           | 24 V / 250 Ah            |
| 6.5                       | Battery weight (+/- 5%)                                     |           | 250 kg                   |
| <b>Miscellaneous</b>      |   |           |                          |
| 8.1                       | Type of drive control                                       |           | AC                       |
| 8.4                       | Sound level at the driver's ear according to DIN 12 053     |           | 70 dB                    |

ES 720 - Dimensional drawing



## Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS)  |    | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1945   | 2195   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 1500   | 1700   |
| h4 - Mast extended height       | mm | 1965   | 2215   |
| Residual capacity at max height | kg | 2000   | 2000   |

| Full Visibility Duplex (FVD)    |    | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1945   | 2195   | 2395   |
| h3 - Mast lifting height        | mm | 2900   | 3400   | 3800   |
| h4 - Mast extended height       | mm | 3400   | 3900   | 4300   |
| Residual capacity at max height | kg | 2000   | 1800   | 1600   |
| Height at max capacity          | mm | 2940   | 2900   | 2900   |

| Free Lift Duplex (FLD)          |    | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1945   | 2195   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 2900   | 3400   |
| h4 - Mast extended height       | mm | 3400   | 3900   |
| Residual capacity at max height | kg | 2000   | 1700   |
| Height at max capacity          | mm | 2930   | 2900   |

| Free Lift Triplex (FLT)         |    | FLT 42 | FLT 47 | FLT 54 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1900   | 2065   | 2305   |
| h2 - Mast free lift             | mm | 1380   | 1540   | 1790   |
| h3 - Mast lifting height        | mm | 4200   | 4700   | 5400   |
| h4 - Mast extended height       | mm | 4720   | 5200   | 5930   |
| Residual capacity at max height | kg | 1300   | 1000   | 700    |
| Height at max capacity          | mm | 2900   | 2900   | 2900   |

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