

Technical sheet :

# ES-C 716



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|       | Technical characteristics                               |           | Metric                   |
|-------|---|-----------|--------------------------|
| 1.1   | Manufacturer  |           | Manitou                  |
| 1.2   | Model Name  |           | ES-C 716                 |
| 1.3   | Power source  |           | Electrical               |
| 1.4   | Operator type   |           | Pedestrian               |
| 1.5   | Max. capacity   | Q         | 1600 kg                  |
| 1.6   | Load center of gravity                                  | c         | 500 mm                   |
| 1.8   | Distance from Load backrest to center of rear axle      | x         | 157 mm                   |
| 1.9   | Wheelbase   | y         | 1300 mm                  |
|       | <b>Weight</b>   |           |                          |
| 2.1   | Service weight  |           | 2400 kg                  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)        |           | 520 kg / 3460 kg         |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)    |           | 1350 kg / 1050 kg        |
|       | <b>Wheels</b>   |           |                          |
| 3.1   | Tires type  |           | Polyurethane             |
| 3.3   | Number of load wheels / Size of load wheels             |           | 2 / 250x100              |
| 3.5   | Number of front wheels / rear wheels                    |           | 1 / 2                    |
| 3.5.2 | Number of drive wheels / Size of drive wheels           |           | 1/254x100                |
| 3.7   | Rear wheel gauge  | b11       | 1003 mm                  |
|       | <b>Dimensions</b>                                       |           |                          |
| 4.15  | Fork height in low position                             | h13       | 45 mm                    |
| 4.19  | Overall length  | l1        | 2790 mm                  |
| 4.20  | Length to face of forks                                 | l2        | 1640 mm                  |
| 4.21  | Overall width   | b1        | 1120 mm                  |
| 4.22  | Forks section / width / length                          | s / e / l | 40 mm / 100 mm / 1150 mm |
| 4.24  | Fork carriage width                                     | b3        | 750 mm                   |
| 4.31  | Ground clearance below mast                             | m1        | 31 mm                    |
| 4.32  | Ground clearance at centre of wheelbase                 | m2        | 62 mm                    |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways           | Ast       | 3128 mm                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways            | Ast       | 3236 mm                  |
| 4.35  | Turning radius  | Wa        | 1660 mm                  |
| 4.9   | Height tiller min. / max.                               | h14 / h14 | 1005 mm / 1405 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 / 315 Ah            |
| 6.4.1 | Battery max. capacity                                   |           | 315 A                    |
| 6.5   | Battery weight (+/- 5%)                                 |           | 275 kg                   |
| 6.5.1 | Battery max. weight                                     |           | 300 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 |           | 65 dB                    |

## ES-C 716 - Dimensional drawing



## Characteristics of masts and residual capacities

| Central Cylinder Duplex (CCD)         |    | CCD 29 | CCD 34 | CCD 38 |
|---------------------------------------|----|--------|--------|--------|
| α - Mast/fork carriage tilt, forward  | °  | 4      | 4      | 4      |
| β - Mast/fork carriage tilt, backward | °  | 6      | 6      | 6      |
| h1 - Mast lowered height              | mm | 1955   | 2205   | 2405   |
| h2 - Mast free lift                   | mm | 1420   | 1420   | 1420   |
| h3 - Mast lifting height              | mm | 2900   | 3400   | 3800   |
| h4 - Mast extended height             | mm | 3400   | 3960   | 4360   |
| Residual capacity at max height       | kg | 1600   | 1600   | 1250   |

| Central Cylinder Simplex (CCS)        |    | CCS 15  | CCS 17 |
|---------------------------------------|----|---------|--------|
| α - Mast/fork carriage tilt, forward  | °  | 4       | 4      |
| β - Mast/fork carriage tilt, backward | °  | 6       | 6      |
| h1 - Mast lowered height              | mm | 1955    | 2205   |
| h2 - Mast free lift                   | mm | 1420    | 1420   |
| h3 - Mast lifting height              | mm | 1500    | 1700   |
| h4 - Mast extended height             | mm | 2030000 | 2280   |
| Residual capacity at max height       | kg | 1600    | 1600   |

| Free Lift Duplex (FLD)                |    | FLD 29 | FLD 34 |
|---------------------------------------|----|--------|--------|
| α - Mast/fork carriage tilt, forward  | °  | 4      | 4      |
| β - Mast/fork carriage tilt, backward | °  | 6      | 6      |
| h1 - Mast lowered height              | mm | 1955   | 2205   |
| h2 - Mast free lift                   | mm | 1420   | 1420   |
| h3 - Mast lifting height              | mm | 2900   | 3400   |
| h4 - Mast extended height             | mm | 3460   | 3960   |
| Residual capacity at max height       | kg | 1600   | 1600   |

| Free Lift Triplex (FLT)               |    | FLT 42 | FLT 47 | FLT 54  |
|---------------------------------------|----|--------|--------|---------|
| α - Mast/fork carriage tilt, forward  | °  | 4      | 4      | 4       |
| β - Mast/fork carriage tilt, backward | °  | 6      | 6      | 6       |
| h1 - Mast lowered height              | mm | 1915   | 2075   | 2315    |
| h2 - Mast free lift                   | mm | 1420   | 1420   | 1420    |
| h3 - Mast lifting height              | mm | 4200   | 4700   | 5400    |
| h4 - Mast extended height             | mm | 4770   | 5250   | 5980000 |
| Residual capacity at max height       | kg | 1050   | 850    | 650     |



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