Technical sheet :







|       | Technical characteristics                                   |         |
|-------|---|---------|
| 1.1   | Manufacturer  |         |
| 1.2   | Model Name  |         |
| 1.3   | Power source  |         |
| 1.4   | Operator type   |         |
| 1.5   | Max. capacity   | Q       |
| 1.6   | Load center of gravity                                      | С       |
| 1.8   | Distance from Load backrest to center of rear axle          | х       |
| 1.9   | Wheelbase   | у       |
|       | Weight  |         |
| 2.1   | Service weight  |         |
| 2.2   | Weight on front axle (laden) / rear axle (laden)            |         |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)        |         |
|       | Wheels  |         |
| 3.1   | Tires type  |         |
| 3.3   | Number of load wheels / Size of load wheels                 |         |
| 3.4   | Number of stabilizer wheels / Size of the stabilizer wheels |         |
| 3.5   | Number of front wheels / rear wheels                        |         |
| 3.5.2 | Number of drive wheels / Size of drive wheels               |         |
| 3.6   | Front wheel gauge   | b10     |
| 3.7   | Rear wheel gauge  | b11     |
| 0.7   | Dimensions  | 511     |
| 4.15  | Fork height in low position                                 | h13     |
| 4.19  | Overall length  | 11      |
| 4.20  | Length to face of forks                                     | 12      |
| 4.21  | Overall width   | b1      |
| 4.22  | Forks section / width / length                              | s / e / |
| 4.24  | Fork carriage width   | b3      |
| 4.32  | Ground clearance at centre of wheelbase                     | m2      |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways               | Ast     |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                | Ast     |
| 4.35  | Turning radius  | Wa      |
| 4.9   | Height tiller min. / max.                                   | h14 / h |
|       | 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   |   |         |

| ES 61     | ☞ Created on August 12, 2025 at 7:58 PM UTC |
|-----------|---|
|           | Metric                                      |
|           | Manitou                                     |
|           | ES 616                                      |
|           | Electrical                                  |
|           | Pedestrian                                  |
| Q         | 1600 kg                                     |
| C         | 600 mm                                      |
| х         | 687 mm                                      |
| у         | 1252 mm                                     |
| ,         |   |
|           | 1095 kg                                     |
|           | 1065 kg / 1620 kg                           |
|           | 855 kg / 240 kg                             |
|           | ······································      |
|           | Polyurethane                                |
|           | 24 / 82 x 68                                |
|           | 1 / 120 x 54                                |
|           | 2 / 2                                       |
|           | 1/230x70                                    |
| b10       | 529 m                                       |
| b11       | 380 mm                                      |
|           |   |
| h13       | 85 mm                                       |
| 11        | 1910 mm                                     |
| 12        | 761 mm                                      |
| b1        | 800 mm                                      |
| s / e / l | 60 mm / 185 mm / 1150 mm                    |
| b3        | 700 mm                                      |
| m2        | 30 mm                                       |
| Ast       | 2286 mm                                     |
| Ast       | 2325 mm                                     |
| Wa        | 1476 mm                                     |
| h14 / h14 | 750 mm / 1250 mm                            |
|           |   |
|           | 6 km/h / 6 km/h                             |
|           | 0.18 m/s / 0.30 m/s                         |
|           | 0.27 m/s / 0.22 m/s                         |
|           | 7 % / 10 %                                  |
|           | Electro magnetic                            |
|           |   |
|           | 1.50 kW                                     |
|           | 3 kW  |
|           | DIN 43535-B                                 |
|           | 24 V / 250 Ah                               |
|           | 189 kg                                      |
|           |   |
|           | AC  |
|           | 65 dB                                       |
|           |   |

## ES 616 - Dimensional drawing



## Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS)  |    | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1930   | 2180   |
| h2 - Mast free lift             | mm | 1505   | 1755   |
| h3 - Mast lifting height        | mm | 1505   | 1755   |
| h4 - Mast extended height       | mm | 1944   | 2194   |
| Residual capacity at max height | kg | 1600   | 1600   |

| Full Visibility Duplex (FVD)    |    | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1930   | 2180   | 2380   |
| h3 - Mast lifting height        | mm | 2935   | 3435   | 3835   |
| h4 - Mast extended height       | mm | 3374   | 3874   | 4274   |
| Residual capacity at max height | kg | 1350   | 1100   | 900    |

| Free Lift Duplex (FLD)          |    | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1930   | 2180   |
| h2 - Mast free lift             | mm | 1505   | 1755   |
| h3 - Mast lifting height        | mm | 2930   | 3430   |
| h4 - Mast extended height       | mm | 3369   | 3869   |
| Residual capacity at max height | kg | 1350   | 1100   |

| Free Lift Triplex (FLT)         |    | FLT 42 | FLT 47 | FLT 54 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1889   | 2049   | 2300   |
| h2 - Mast free lift             | mm | 1465   | 1625   | 1875   |
| h3 - Mast lifting height        | mm | 4245   | 4725   | 5455   |
| h4 - Mast extended height       | mm | 4701   | 5181   | 5880   |
| Residual capacity at max height | kg | 700    | 550    | 500    |



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