

Technical sheet :

# **ES 614 LI (5PTS)**

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| Technical characteristics |   |           | Metric                   |
|---------------------------|---|-----------|--------------------------|
| 1.1                       | Manufacturer  |           | Manitou                  |
| 1.2                       | Model Name  |           | ES 614 LI (5pts)         |
| 1.3                       | Power source  |           | Electrical - Lead        |
| 1.4                       | Operator type   |           | Pedestrian               |
| 1.5                       | Max. capacity   | Q         | 1400 kg                  |
| 1.6                       | Load center of gravity                                      | c         | 600 mm                   |
| 1.8                       | Distance from Load backrest to center of rear axle          | x         | 729 mm                   |
| 1.9                       | Wheelbase   | y         | 1393 mm                  |
| Weight                    |   |           |                          |
| 2.1                       | Service weight  |           | 1280 kg                  |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)            |           | 1005 kg / 1690 kg        |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)        |           | 905 kg / 375 kg          |
| Wheels                    |   |           |                          |
| 3.1                       | Tires type  |           | Polyurethane cushion     |
| 3.3                       | Number of load wheels / Size of load wheels                 |           | 4 / 82 x 68              |
| 3.4                       | Number of stabilizer wheels / Size of the stabilizer wheels |           | 1 / 120 x 54             |
| 3.5                       | Number of front wheels / rear wheels                        |           | 3 / 4                    |
| 3.5.2                     | Number of drive wheels / Size of drive wheels               |           | 1/230x70                 |
| 3.6                       | Front wheel gauge   | b10       | 558 mm                   |
| 3.7                       | Rear wheel gauge  | b11       | 380 mm                   |
| Dimensions                |   |           |                          |
| 4.15                      | Fork height in low position                                 | h13       | 86 mm                    |
| 4.19                      | Overall length  | l1        | 2137 mm                  |
| 4.20                      | Length to face of forks                                     | l2        | 846 mm                   |
| 4.21                      | Overall width   | b1        | 800 mm                   |
| 4.22                      | Forks section / width / length                              | s / e / l | 60 mm / 185 mm / 1150 mm |
| 4.24                      | Fork carriage width   | b3        | 700 mm                   |
| 4.32                      | Ground clearance at centre of wheelbase                     | m2        | 24 mm                    |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways               | Ast       | 2399 mm                  |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                | Ast       | 2402 mm                  |
| 4.6                       | Initial lift  | h5        | 110 mm                   |
| 4.35                      | Turning radius  | Wa        | 1597 mm                  |
| 4.9                       | Height tiller min. / max.                                   | h14       | 750 mm / 1250 mm         |
| Performances              |   |           |                          |
| 5.1                       | Travel speed (laden / unladen)                              |           | 6 km/h / 6 km/h          |
| 5.2                       | Lifting speed (laden / unladen)                             |           | 0.18 m/s / 0.30 m/s      |
| 5.3                       | Lowering speed (laden / unladen)                            |           | 0.27 m/s / 0.22 m/s      |
| 5.8                       | Max Gradeability (laden / unladen)                          |           | 7 % / 10 %               |
| 5.10                      | Service brake   |           | Electro magnetic         |
| Engine                    |   |           |                          |
| 6.1                       | Drive motor rating S2 60 min                                |           | 1.50 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 / 180 Ah            |
| 6.5                       | Battery weight (+/- 5%)                                     |           | 220 kg                   |
| Miscellaneous             |   |           |                          |
| 8.1                       | Type of drive control                                       |           | AC                       |
| 8.4                       | Sound level at the driver's ear according to DIN 12 053     |           | 65 dB                    |

ES 614 LI (5pts) - Dimensional drawing



## Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS)  |    | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1953   | 2203   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 1500   | 1700   |
| h4 - Mast extended height       | mm | 1960   | 2210   |
| Residual capacity at max height | kg | 1400   | 1400   |

| Full Visibility Duplex (FVD)    |    | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1953   | 2203   | 2403   |
| h3 - Mast lifting height        | mm | 2900   | 3400   | 3800   |
| h4 - Mast extended height       | mm | 3390   | 3890   | 4290   |
| Residual capacity at max height | kg | 1250   | 950    | 650    |

| Free Lift Duplex (FLD)          |    | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1953   | 2203   |
| h2 - Mast free lift             | mm | 1420   | 1670   |
| h3 - Mast lifting height        | mm | 2900   | 3400   |
| h4 - Mast extended height       | mm | 3385   | 3885   |
| Residual capacity at max height | kg | 1200   | 900    |

| Free Lift Triplex (FLT)         |    | FLT 42 |
|---------------------------------|----|--------|
| h1 - Mast lowered height        | mm | 1911   |
| h2 - Mast free lift             | mm | 1380   |
| h3 - Mast lifting height        | mm | 4200   |
| h4 - Mast extended height       | mm | 4723   |
| Residual capacity at max height | kg | 600    |



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