

Technical sheet :

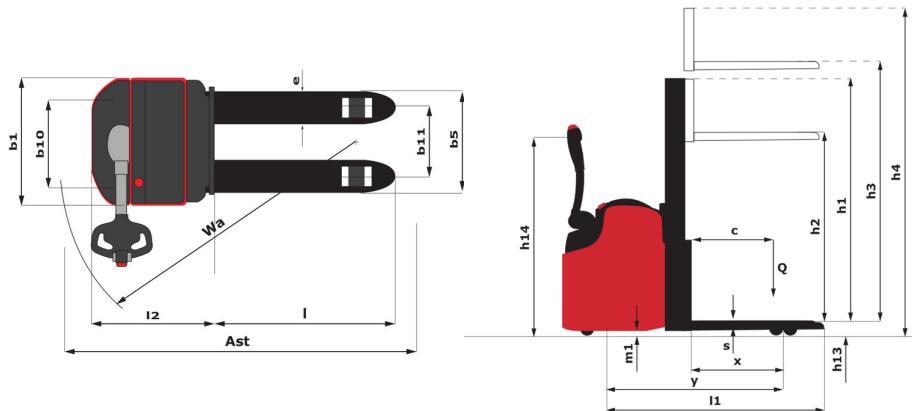
# ES 612 LI (5PTS)



 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Metric                   |  |
|---------------------------|---|--------------------------|--|
| 1.1                       | Manufacturer  | Manitou                  |  |
| 1.2                       | Model Name  | ES 612 LI (5pts)         |  |
| 1.3                       | Power source  | Electrical - Lead        |  |
| 1.4                       | Operator type   | Pedestrian               |  |
| 1.5                       | Max. capacity   | 1200 kg                  |  |
| 1.6                       | Load center of gravity                                      | 600 mm                   |  |
| 1.8                       | Distance from Load backrest to center of rear axle          | 729 mm                   |  |
| 1.9                       | Wheelbase   | 1393 mm                  |  |
| <b>Weight</b>             |   |                          |  |
| 2.1                       | Service weight  | 1248 kg                  |  |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)            | 983 kg / 1513 kg         |  |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)        | 883 kg / 353 kg          |  |
| <b>Wheels</b>             |   |                          |  |
| 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   | 558 mm                   |  |
| 3.7                       | Rear wheel gauge  | 380 mm                   |  |
| <b>Dimensions</b>         |   |                          |  |
| 4.19                      | Overall length  | 2126 mm                  |  |
| 4.20                      | Length to face of forks                                     | 834 mm                   |  |
| 4.21                      | Overall width   | 800 mm                   |  |
| 4.22                      | Forks section / width / length                              | 60 mm / 185 mm / 1150 mm |  |
| 4.24                      | Fork carriage width   | 700 mm                   |  |
| 4.32                      | Ground clearance at centre of wheelbase                     | 24 mm                    |  |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways               | 2398 mm                  |  |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                | 2394 mm                  |  |
| 4.6                       | Initial lift  | 110 mm                   |  |
| 4.35                      | Turning radius  | 1597 mm                  |  |
| 4.9                       | Height tiller min. / max.                                   | 750 mm / 1250 mm         |  |
| <b>Performances</b>       |   |                          |  |
| 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         |  |
| <b>Engine</b>             |   |                          |  |
| 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%)                                     | 189 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 612 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             | 1506   | 1756   |
| h3 - Mast lifting height mm        | 1506   | 1756   |
| h4 - Mast extended height mm       | 1960   | 2210   |
| Residual capacity at max height kg | 1200   | 1200   |

| Free Lift Duplex (FLD)             | FLD 29 | FLD 34 |
|------------------------------------|--------|--------|
| h1 - Mast lowered height mm        | 1953   | 2203   |
| h2 - Mast free lift mm             | 1506   | 1756   |
| h3 - Mast lifting height mm        | 2931   | 3431   |
| 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             | 1466   |
| h3 - Mast lifting height mm        | 4246   |
| h4 - Mast extended height mm       | 4723   |
| Residual capacity at max height kg | 550    |



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