

Technical sheet :

# AMR ES 612



 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |   | Metric    |                          |
|---------------------------|---|-----------|--------------------------|
| 1.1                       | Manufacturer  |           | MANITOU                  |
| 1.2                       | Model Name  |           | AMR ES612                |
| 1.3                       | Power source  |           | Electrical - Lead        |
| 1.4                       | Operator type   |           | Carried                  |
| 1.5                       | Max. capacity   | Q         | 1200 kg                  |
| 1.6                       | Load center of gravity  | c         | 600 mm                   |
| 1.8                       | Load distance, centre of drive axle to fork (low/raised) - Low position / Raised position | x         | 696 mm / 736 mm          |
| 1.9                       | Wheelbase   | y         | 1457 mm                  |
| Wheels                    |   |           |                          |
| 3.1                       | Tires type  |           | Polyurethane cushion     |
| 3.5                       | Number of front wheels / rear wheels  |           | 2 / 4                    |
| 3.5.2                     | Number of drive wheels  |           | 1                        |
| 3.6                       | Front wheel gauge   | b10       | 531 mm                   |
| 3.7                       | Rear wheel gauge  | b11       | 380 mm                   |
| Dimensions                |   |           |                          |
| 4.19                      | Overall length  | l1        | 2160 mm                  |
| 4.20                      | Length to face of forks   | l2        | 1010 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        | 30 mm                    |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways   | Ast       | 2999 mm                  |
| 4.35                      | Turning radius  | Wa        | 2143 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 / 270 Ah            |
| 6.4.1                     | Battery max. capacity   |           | 375 Ah                   |
| 6.5                       | Battery weight (+/- 5%)   |           | 255 kg                   |
| 6.5.1                     | Battery max. weight   |           | 305 kg                   |
| Miscellaneous             |   |           |                          |
| 8.1                       | Type of drive control   |           | Variator                 |
| 8.4                       | Sound level at the driver's ear according to DIN 12 053                                   |           | 70 dB                    |

### AMR ES 612 - Dimensional drawing



### Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)    |    | FVD 29 | FVD 34 | FVD 38 | FVD 43 |
|---------------------------------|----|--------|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1953   | 2203   | 2403   | 2653   |
| h3 - Mast lifting height        | mm | 2936   | 3436   | 3836   | 4336   |
| h4 - Mast extended height       | mm | 3390   | 3890   | 4290   | 4790   |
| Residual capacity at max height | kg | 1200   | 1050   | 800    | 650    |



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