Technical sheet:

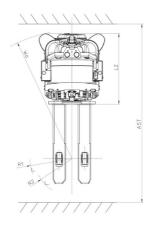
## **AMR ES 616**

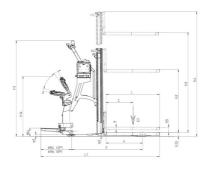




|       |   | AMRES 616 CICAL | eu on August 13, 2023 at 10.03 AM OTC |
|-------|---|-----------------|---------------------------------------|
|       | Technical characteristics   |                 | Metric                                |
| 1.1   | Manufacturer  |                 | MANITOU                               |
| 1.2   | Model Name  |                 | AMR ES616                             |
| 1.3   | Power source  |                 | Electrical                            |
| 1.4   | Operator type   |                 | Carried                               |
| 1.5   | Max. capacity   | Q               | 1600 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 / Q           | 725 mm / 685 mm                       |
| 1.9   | Wheelbase   | у               | 1457 mm                               |
|       | Wheels  |                 |                                       |
| 3.1   | Tires type  |                 | Polyurethane                          |
| 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  | I1              | 2178 mm                               |
| 4.20  | Length to face of forks   | I2              | 1021 mm                               |
| 4.21  | Overall width   | b1              | 800 mm                                |
| 4.22  | Forks section / width / length  | s / e / I       | 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             | 3003 mm                               |
| 4.35  | Turning radius  | Wa              | 2143 m                                |
|       | 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 A                                 |
| 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 616 - 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 | 1350   | 1100   | 850    | 720    |





## **Head Office**

B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



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