

Technical sheet :

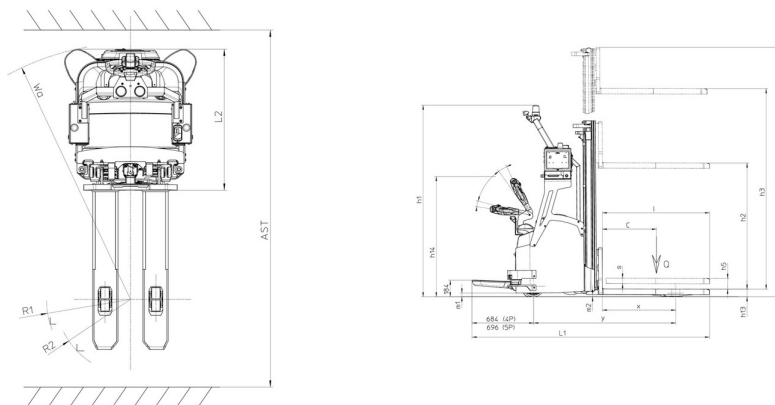
AMR ES 616



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | Metric | |
|---------------------------|---|-----------|--------------------------|
| 1.1 | Manufacturer | | MANITOU |
| 1.2 | Model Name | | AMR ES616 |
| 1.3 | Power source | | Electrical - Lead |
| 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 | 725 mm / 685 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 | 2178 mm |
| 4.20 | Length to face of forks | l2 | 1021 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 | 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 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 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 |



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