Technical sheet:

ES 616





| | | ES 616 U | reated off July 31, 2025 at 10.55 AM OT |
|-------|---|-----------|---|
| | Technical characteristics | | Metric |
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ES 616 |
| 1.3 | Power source | | Electrical |
| 1.4 | Operator type | | Pedestrian |
| 1.5 | Max. capacity | Q | 1600 kg |
| 1.6 | Load center of gravity | С | 600 mm |
| 1.8 | Distance from Load backrest to center of rear axle | x | 687 mm |
| 1.9 | Wheelbase | у | 1252 mm |
| | Weight | | |
| 2.1 | Service weight | | 1095 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 1065 kg / 1620 kg |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 855 kg / 240 kg |
| | Wheels | | |
| 3.1 | Tires type | | Polyurethane |
| 3.3 | Number of load wheels / Size of load wheels | | 24 / 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 | | 2/2 |
| 3.5.2 | Number of drive wheels / Size of drive wheels | | 1/230x70 |
| 3.6 | Front wheel gauge | b10 | 529 m |
| 3.7 | Rear wheel gauge | b11 | 380 mm |
| | Dimensions | | |
| 4.15 | Fork height in low position | h13 | 85 mm |
| 4.19 | Overall length | 11 | 1910 mm |
| 4.20 | Length to face of forks | 12 | 761 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 | 2286 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 2325 mm |
| 4.35 | Tuming radius | Wa | 1476 mm |
| 4.9 | Height tiller min. / max. | h14 / 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 / 250 Ah |
| 6.5 | Battery weight (+/- 5%) | | 189 kg |
| 3.0 | Miscellaneous | | |
| 8.1 | Type of drive control | | AC |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 65 dB |
| ٠ | at an amore can according to bill 12 000 | | 00 UD |

ES 616 - Dimensional drawing



Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS) | | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 1930 | 2180 |
| h2 - Mast free lift | mm | 1505 | 1755 |
| h3 - Mast lifting height | mm | 1505 | 1755 |
| h4 - Mast extended height | mm | 1944 | 2194 |
| Residual capacity at max height | kg | 1600 | 1600 |

| Full Visibility Duplex (FVD) | | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height | mm | 1930 | 2180 | 2380 |
| h3 - Mast lifting height | mm | 2935 | 3435 | 3835 |
| h4 - Mast extended height | mm | 3374 | 3874 | 4274 |
| Residual capacity at max height | ka | 1350 | 1100 | 900 |

| Free Lift Duplex (FLD) | | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 1930 | 2180 |
| h2 - Mast free lift | mm | 1505 | 1755 |
| h3 - Mast lifting height | mm | 2930 | 3430 |
| h4 - Mast extended height | mm | 3369 | 3869 |
| Residual capacity at max height | kg | 1350 | 1100 |

| Free Lift Triplex (FLT) | | FLT 42 | FLT 47 | FLT 54 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height | mm | 1889 | 2049 | 2300 |
| h2 - Mast free lift | mm | 1465 | 1625 | 1875 |
| h3 - Mast lifting height | mm | 4245 | 4725 | 5455 |
| h4 - Mast extended height | mm | 4701 | 5181 | 5880 |
| Residual capacity at max height | kg | 700 | 550 | 500 |





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