Technical sheet :



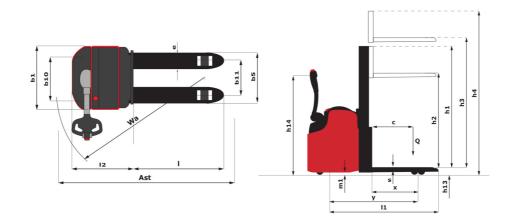




| 11 | Technical characteristics Manufacturer |
|-------|---|
| 1.1 | Manuracturer Model Name |
| | Model Name Power source |
| 1.3 | |
| 1.4 | Operator type |
| 1.5 | Max. capacity |
| 1.6 | Load center of gravity |
| 1.8 | Distance from Load backrest to center of rear axle |
| 1.9 | Wheelbase |
| | Weight |
| 2.1 | Service weight |
| 2.2 | Weight on front axle (laden) / rear axle (laden) |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) |
| | Wheels |
| 3.1 | Tires type |
| 3.3 | Number of load wheels / Size of load wheels |
| 3.4 | Number of stabilizer wheels / Size of the stabilizer wheels |
| 3.5 | Number of front wheels / rear wheels |
| 3.5.2 | Number of drive wheels / Size of drive wheels |
| 3.6 | Front wheel gauge |
| 3.7 | Rear wheel gauge |
| | Dimensions |
| 4.6 | Initial lift |
| 4.15 | Fork height in low position |
| 4.19 | Overall length |
| 4.20 | Length to face of forks |
| 4.21 | Overall width |
| 4.22 | Forks section / width / length |
| 4.24 | Fork carriage width |
| 4.32 | Ground clearance at centre of wheelbase |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways |
| 4.35 | Turning radius |
| 4.9 | Height tiller min. / max. |
| | Performances |
| 5.1 | Travel speed (laden / unladen) |
| 5.2 | Lifting speed (laden / unladen) |
| 5.3 | Lowering speed (laden / unladen) |
| 5.8 | Max Gradeability (laden / unladen) |
| 5.10 | Service brake |
| | Engine |
| 6.1 | Drive motor rating S2 60 min |
| 6.2 | Lift motor rating at \$3 15% |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C |
| 6.4 | Battery voltage / capacity |
| 6.5 | Battery weight (+/- 5%) |
| | Miscellaneous |
| 8.1 | Type of drive control |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 |

| ES 616 | ■ Created on July 31, 2025 at 12:45 PM UTC |
|-----------|--|
| | Metric |
| | Manitou |
| | ES 616 LI |
| | Electrical |
| | Pedestrian |
| Q | 1600 kg |
| С | 600 mm |
| х | 848 mm |
| у | 1492 mm |
| | |
| | 1283 kg |
| | 1216 kg / 1660 kg |
| | 1033 kg / 280 kg |
| | |
| | Polyurethane |
| | 4 / 82 x 68 |
| | 1 / 120 x 54 |
| | 2/4 |
| | 1/230x70 |
| b10 | 529 mm |
| b11 | 380 mm |
| | |
| h5 | 110 mm |
| h13 | 86 mm |
| 1 | 2035 mm |
| 12 | 846 mm |
| b1 | 800 mm |
| s / e / l | 60 mm / 185 mm / 1190 mm |
| b3 | 700 m |
| m2 | 30 mm |
| Ast | 2520 mm |
| Ast | 2435 mm |
| Wa | 1716 mm |
| h14 / h14 | 750 mm / 1250 mm |
| | |
| | 6 km/h / 6 km/h |
| | 0.18 m/s / 0.30 m/s |
| | 0.27 m/s / 0.22 m/s |
| | 7 % / 10 % |
| | Electro magnetic |
| | |
| | 1.50 kW |
| | 3 kW |
| | DIN 43535-B |
| | 24 V / 180 Ah |
| | 220 kg |
| | |
| | AC |
| | 65 dB |

ES 616 LI - 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 | 1600 | 1600 |

| Full Visibility Duplex (FVD) | | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height | mm | 1953 | 2203 | 2403 |
| h3 - Mast lifting height | mm | 2936 | 3436 | 3836 |
| h4 - Mast extended height | mm | 3390 | 3890 | 4290 |
| Residual capacity at max height | kg | 1350 | 1100 | 850 |

| 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 | 1350 | 1100 |

| Free Lift Triplex (FLT) | | FLT 42 | FLT 47 | FLT 54 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height | mm | 1911 | 2071 | 2315 |
| h2 - Mast free lift | mm | 1466 | 1626 | 1880 |
| h3 - Mast lifting height | mm | 4246 | 4726 | 5460 |
| h4 - Mast extended height | mm | 4723 | 5203 | 5895 |
| Residual capacity at max height | kg | 670 | 500 | 450 |



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