Technical sheet :



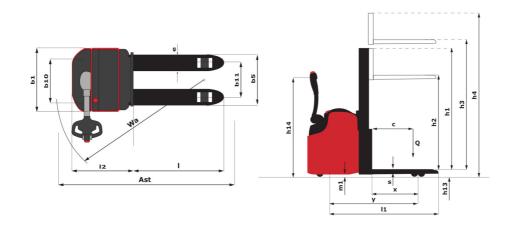




| ES 616 LI Created on April 19, 2024 at 5:13:35 PM UTC |
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| | | | ES 616 LI Created on A | Apili 19, 2024 at 5.15.50 |
|-----|---|-----------|--------------------------|---------------------------|
| Те | chnical characteristics | | Metric | Imperial |
| Ma | inufacturer | | Manitou | Manitou |
| Мс | del Name | | ES 616 LI | ES 616 LI |
| Po | wer source | | Electrical | Electrical |
| Op | erator type | | Pedestrian | Pedestrian |
| Ma | ix. capacity | Q | 1600 kg | 3527 lb |
| Lo | ad center of gravity | С | 600 mm | 24 in |
| Dis | stance from Load backrest to center of rear axle | х | 848 mm | 33 in |
| Wh | eelbase | У | 1492 mm | 59 in |
| We | light | | | |
| | rvice weight | | 1327 kg | 2926 lb |
| We | ight on front axle (laden) / rear axle (laden) | | 1246 kg / 1670 kg | 2747 lb / 3682 lb |
| | ight on front axle (Unladen) / rear axle (Unladen) | | 1033 kg / 290 kg | 2277 lb / 639 lb |
| | neels | | | |
| | es type | | Bandage | Bandage |
| | mber of load wheels / Size of load wheels | | 2 / 140x60 | 2 / 140x60 |
| | mber of stabilizer wheels / Size of the stabilizer wheels | | 1 / 140x60 | 1 / 140x60 |
| | mber of front wheels / rear wheels | | 2/4 | 2/4 |
| | mber of drive wheels / Size of drive wheels | | 1/230x70 | 1/230x70 |
| | ont wheel gauge | b10 | 529 mm | 21 in |
| | ar wheel gauge | b11 | 380 mm | 15 in |
| | mensions | 511 | | 10 11 |
| | tial lift | h5 | 110 mm | 4 in |
| | rk height in low position | h13 | 86 mm | 3 in |
| | erall length | 1 | 2174 mm | 86 in |
| | ngth to face of forks | 12 | 976 mm | 38 in |
| | erall width | b1 | 800 mm | 31 in |
| | rks section / width / length | s / e / l | 60 mm / 185 mm / 1190 mm | 2 in / 7 in / 47 in |
| | rk carriage width | b3 | 700 m | 2296 ft 7 in |
| | bund clearance at centre of wheelbase | m2 | 30 mm | 1 in |
| | sle Width for pallets 1000 x 1200 crossways | Ast | 2520 mm | 99 in |
| | sle width for 800 x 1200 pallet lengthways | Ast | 2435 mm | 96 in |
| | ming radius | Wa | 1588 mm | 63 in |
| | • | h14 / | | |
| He | ight tiller min. / max. | h14 | 750 mm / 1250 mm | 30 in / 49 in |
| Pe | formances | | | |
| Tra | ivel speed (laden / unladen) | | 6 km/h / 6 km/h | 4 mph / 4 mph |
| | ting speed (laden / unladen) | | 0.18 m/s / 0.30 m/s | 0.59 ft/s / 0.98 ft/ |
| | wering speed (laden / unladen) | | 0.27 m/s / 0.22 m/s | 0.89 ft/s / 0.72 ft/ |
| | x Gradeability (laden / unladen) | | 7 % / 10 % | 7 % / 10 % |
| | rvice brake | | Electro magnetic | Electro magnetic |
| | gine | | | |
| | ve motor rating S2 60 min | | 1.50 kW | 1.50 kW |
| Lif | t motor rating at S3 15% | | 3 kW | 3 kW |
| Ba | ttery according to DIN 43531/35/36 A, B, C | | DIN 43535-B | DIN 43535-B |
| Ba | ttery voltage / capacity | | 24 V / 180 Ah | 24 V / 180 Ah |
| Ba | ttery weight (+/- 5%) | | 189 kg | 417 lb |
| Mi | scellaneous | | | |
| Ту | be of drive control | | AC | AC |
| So | und level at the driver's ear according to DIN 12 053 | | 65 dB | 65 dB |

ES 616 LI - Dimensional drawing



Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS) | | CCS 15 | CCS 17 |
|---------------------------------|---------|-------------|-------------|
| n1 - Mast lowered height | in (mm) | 76.9 (1953) | 86.7 (2203) |
| 2 - Mast free lift | in (mm) | 59.3 (1506) | 69.1 (1756) |
| 3 - Mast lifting height | in (mm) | 59.3 (1506) | 69.1 (1756) |
| n4 - Mast extended height | in (mm) | 77.2 (1960) | 87 (2210) |
| Residual capacity at max height | lb (kg) | 3527 (1600) | 3527 (1600) |
| | | | |
| ull Visibility Duplex (FVD) | | FVD 29 | FVD 34 |

| Full visibility buplex (FVD) | | FVD 29 | FVD 34 | FVD 30 |
|----------------------------------|---------|--------------|--------------|--------------|
| h1 - Mast lowered height in (mm) | | 76.9 (1953) | 86.7 (2203) | 94.6 (2403) |
| h3 - Mast lifting height | in (mm) | 115.6 (2936) | 135.3 (3436) | 151 (3836) |
| h4 - Mast extended height | in (mm) | 133.5 (3390) | 153.1 (3890) | 168.9 (4290) |
| Residual capacity at max height | lb (kg) | 2976 (1350) | 2425 (1100) | 1874 (850) |
| | | | | |

| Free Lift Duplex (FLD) | | FLD 29 | FLD 34 |
|---------------------------------|---------|--------------|--------------|
| h1 - Mast lowered height | in (mm) | 76.9 (1953) | 86.7 (2203) |
| h2 - Mast free lift | in (mm) | 59.3 (1506) | 69.1 (1756) |
| h3 - Mast lifting height | in (mm) | 115.4 (2931) | 135.1 (3431) |
| h4 - Mast extended height | in (mm) | 133.3 (3385) | 153 (3885) |
| Residual capacity at max height | lb (kg) | 2976 (1350) | 2425 (1100) |

| Free Lift Triplex (FLT) | | FLT 42 | FLT 47 | FLT 54 |
|---------------------------------|---------|--------------|--------------|--------------|
| h1 - Mast lowered height | in (mm) | 75.2 (1911) | 81.5 (2071) | 91.1 (2315) |
| h2 - Mast free lift | in (mm) | 57.7 (1466) | 64 (1626) | 74 (1880) |
| h3 - Mast lifting height | in (mm) | 167.2 (4246) | 186.1 (4726) | 215 (5460) |
| h4 - Mast extended height | in (mm) | 185.9 (4723) | 204.8 (5203) | 232.1 (5895) |
| Residual capacity at max height | lb (kg) | 1477 (670) | 1102 (500) | 992 (450) |



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