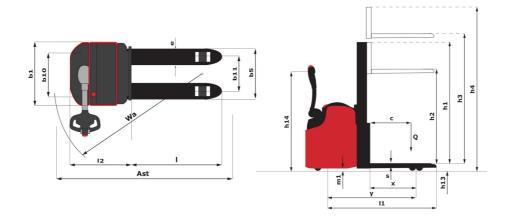
Technical sheet:

ES 820 LI



| | | E3 820 Li Oicat | ed on November 8, 2025 at 7.16 PM |
|-------|---|-----------------|-----------------------------------|
| | Technical characteristics | | Metric |
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ES 820 LI |
| 1.3 | Power source | | Electrical - Lead |
| 1.4 | Operator type | | Pedestrian |
| 1.5 | Max. capacity | Q | 2000 kg |
| 1.51 | Nominal capacity on wrapover forks | Q | 2000 kg |
| 1.6 | Load center of gravity | c | 600 mm |
| 1.8 | Distance from Load backrest to center of rear axle | x | 716 mm |
| 1.9 | Wheelbase | y | 1509 mm |
| 1.5 | Weight | , | 1007 11111 |
| 2.1 | Service weight | | 1800 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 1360 kg / 2500 kg |
| 2.3 | . , , , , , | | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) Wheels | | 1250 kg / 550 kg |
| 3.1 | Tires type | | Cushion |
| 3.3 | Number of load wheels / Size of load wheels | | 4 / 82 x 68 |
| 3.4 | Number of castor wheels | | 1 |
| 3.4 | Number of stabilizer wheels / Size of the stabilizer wheels | | 2 / 120 x 50 |
| 3.5 | Number of front wheels / rear wheels | | 3/4 |
| 3.5.2 | Number of drive wheels / Size of drive wheels | | 1/254x100 |
| 3.6 | Front wheel gauge | b10 | 664 mm |
| 3.7 | Rear wheel gauge | b10 | 375 mm |
| 3.7 | Dimensions | DII | 3/3 111111 |
| 4.15 | | h13 | 86 mm |
| 4.13 | Fork height in low position Overall length | III3 | 2123 mm |
| 4.19 | , | 12 | 973 mm |
| 4.20 | Length to face of forks | b1 | 973 IIIII 890 mm |
| | Overall width | | |
| 4.22 | Forks section / width / length | s / e / l | 70 mm / 200 mm / 1150 mm |
| 4.24 | Fork carriage width | b3 | 700 mm |
| 4.31 | Ground clearance below mast | m1 | 20 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 21 mm |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 2572 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 2531 mm |
| 4.6 | Initial lift | h5 | 110 mm |
| 4.35 | Turning radius | Wa | 1719 mm |
| 4.9 | Height tiller min. / max. | h14 / h14 | 900 mm / 1400 mm |
| | Performances | | |
| 5.1 | Travel speed (laden / unladen) | | 6 km/h / 6 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.11 m/s / 0.20 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.21 m/s / 0.22 m/s |
| 5.8 | Max Gradeability (laden / unladen) | | 6 % / 10 % |
| 5.10 | Service brake | | Electro magnetic |
| | Engine | | |
| 6.1 | Drive motor rating S2 60 min | | 2 kW |
| 6.2 | Lift motor rating at S3 15% | | 4 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | Traction |
| 6.4 | Battery voltage / capacity | | 24 V / 315 Ah |
| 6.5 | Battery weight (+/- 5%) | | 273 kg |
| | Miscellaneous | | |
| 8.1 | Type of drive control | | DC |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 65 dB |

ES 820 LI - Dimensional drawing



Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS) | | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 1955 | 2205 |
| h2 - Mast free lift | mm | 1510 | 1760 |
| h3 - Mast lifting height | mm | 1510 | 1760 |
| h4 - Mast extended height | mm | 1965 | 2215 |
| Residual capacity at max height | kg | 2000 | 2000 |

| Full Visibility Duplex (FVD) | | FVD 29 | FVD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 1955 | 2205 |
| h3 - Mast lifting height | mm | 2940 | 3440 |
| h4 - Mast extended height | mm | 3400 | 3900 |
| Residual capacity at max height | ka | 1600 | 1300 |

| Free Lift Duplex (FLD) | | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height | mm | 2205 | 2205 |
| h2 - Mast free lift | mm | 1510 | 1760 |
| h3 - Mast lifting height | mm | 2935 | 3435 |
| h4 - Mast extended height | mm | 3895 | 3895 |
| Residual capacity at max height | kg | 1600 | 1300 |

| Free Lift Triplex (FLT) | | FLT 42 | FLT 47 | FLT 54 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height | mm | 1915 | 2075 | 2315 |
| h2 - Mast free lift | mm | 1470 | 1630 | 1880 |
| h3 - Mast lifting height | mm | 4250 | 4730 | 5460 |
| h4 - Mast extended height | mm | 4725 | 5205 | 5895 |
| Residual capacity at max height | kg | 750 | 550 | 450 |





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