Technical sheet :

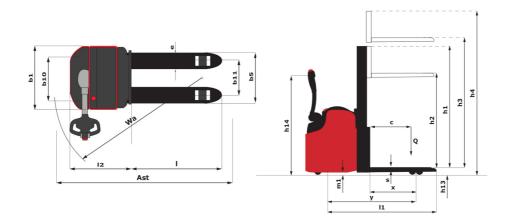




| | Technical characteristics | |
|----|---|--|
| .1 | Manufacturer | |
| 2 | Model Name | |
| 3 | Power source | |
| | Operator type | |
| | Max. capacity | |
| | Nominal capacity on wrapover forks | |
| | Load center of gravity | |
| | Distance from Load backrest to center of rear axle | |
| | Wheelbase | |
| | Weight | |
| | Service weight | |
| | Weight on front axle (laden) / rear axle (laden) | |
| | Weight on front axle (Unladen) / rear axle (Unladen) | |
| | Wheels | |
| | Tires type | |
| | Number of load wheels / Size of load wheels | |
| | | |
| | Number of castor wheels | |
| | Number of stabilizer wheels / Size of the stabilizer wheels | |
| | Number of front wheels / rear wheels | |
| 2 | Number of drive wheels / Size of drive wheels | |
| | Front wheel gauge | |
| | Rear wheel gauge | |
| | Dimensions | |
| | Initial lift | |
| | Fork height in low position | |
| | Overall length | |
| | Length to face of forks | |
| | Overall width | |
| | Forks section / width / length | |
| | Fork carriage width | |
| | Ground clearance below mast | |
| | Ground clearance at centre of wheelbase | |
| | Aisle Width for pallets 1000 x 1200 crossways | |
| | Aisle width for 800 x 1200 pallet lengthways | |
| | Turning radius | |
| | Height tiller min. / max. | |
| | Performances | |
| | Travel speed (laden / unladen) | |
| | Lifting speed (laden / unladen) | |
| | Lowering speed (laden / unladen) | |
| | Max Gradeability (laden / unladen) | |
| | Service brake | |
| | Engine | |
| | Drive motor rating S2 60 min | |
| | Lift motor rating at S3 15% | |
| | Battery according to DIN 43531/35/36 A, B, C | |
| | Battery voltage / capacity | |
| | Battery weight (+/- 5%) | |
| | Miscellaneous | |
| | Type of drive control | |
| | Sound level at the driver's ear according to DIN 12 053 | |
| | Sound rever at the driver's car according to Driver 2 055 | |

| ES 820 | L∎ Created on August 15, 2025 at 7:53 AM UTC |
|-----------|--|
| | Metric |
| | Manitou |
| | ES 820 LI |
| | Electrical |
| | Pedestrian |
| Q | 2000 kg |
| Q | 2000 kg |
| С | 600 mm |
| x | 716 mm |
| у | 1509 mm |
| | |
| | 1800 kg |
| | 1360 kg / 2500 kg |
| | 1250 kg / 550 kg |
| | |
| | Polyurethane |
| | 4 / 82 x 68 |
| | 1 |
| | 2 / 120 x 50 |
| | 3 / 4 |
| | 1/254x100 |
| b10 | 664 mm |
| b11 | 375 mm |
| | |
| h5 | 110 mm |
| h13 | 86 mm |
| 1 | 2123 mm |
| 12 | 973 mm |
| b1 | 890 mm |
| s / e / l | 70 mm / 200 mm / 1150 mm |
| b3 | 700 mm |
| m1 | 20 mm |
| m2 | 21 mm |
| Ast | 2572 mm |
| Ast | 2531 mm |
| Wa | 1719 mm |
| h14 / h14 | 900 mm / 1400 mm |
| | 6 km/h / 6 km/h |
| | 0.11 m/s / 0.20 m/s |
| | 0.21 m/s / 0.20 m/s |
| | 6 % / 10 % |
| | |
| | Electro magnetic |
| | 2 kW |
| | 4 kW |
| | Traction |
| | 24 V / 315 Ah |
| | 273 kg |
| | 2/3 Ky |
| | DC |
| | 65 dB |
| | 05 05 |

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 | kg | 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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