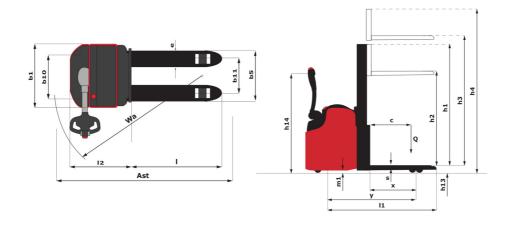
Technical sheet:

## ES 820 LI



		<b>ES 820 LI</b> Crea	ted on August 21, 2025 at 11:24 AM UTC
	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	С	600 mm
1.8	Distance from Load backrest to center of rear axle	X	716 mm
1.9	Wheelbase	٧	1509 mm
	Weight		
2.1	Service weight		1800 kg
2.2	Weight on front axle (laden) / rear axle (laden)		1360 kg / 2500 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1250 kg / 550 kg
210	Wheels		.200 kg / 000 kg
3.1	Tires type		Polyurethane
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	b11	375 mm
3.7	Dimensions	011	3/3 111111
4.6	Initial lift	h5	110 mm
4.0		h13	86 mm
4.13	Fork height in low position  Overall length	II II	2123 mm
4.19	•	12	973 mm
4.20	Length to face of forks	b1	9/3 mm
4.21	Overall width		70 mm / 200 mm / 1150 mm
4.22	Forks section / width / length Fork carriage width	s / e / l b3	70 mm 700 mm
	3		
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
4.35	Turning radius	Wa	1719 mm
4.9	Height tiller min. / max.	h14 / h14	900 mm / 1400 mm
5.4	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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