Technical sheet :

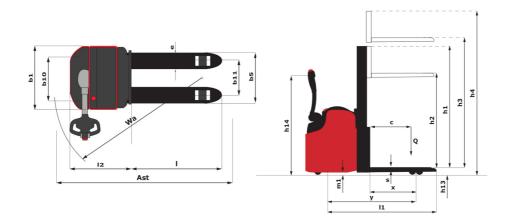




	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	
1.51	Nominal capacity on wrapover forks	
1.6	Load center of gravity	
1.8	Distance from Load backrest to center of rear axle	
1.9	Wheelbase	
	Weight	
2.1	Service weight	
2.2	Weight on front 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 castor 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	t
3.7	Rear wheel gauge Dimensions	t
4.6	Initial lift	
4.0	Fork height in low position	ł
4.13	Overall length	
4.19	Length to face of forks	
	-	
4.21	Overall width	
4.22	Forks section / width / length	s /
4.24	Fork carriage width	
4.31	Ground clearance below mast	
4.32	Ground clearance at centre of wheelbase	le de la constante de la consta
4.33	Aisle Width for pallets 1000 x 1200 crossways	1
4.34	Aisle width for 800 x 1200 pallet lengthways	
4.35	Turning radius	
4.9	Height tiller min. / max.	h14
	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 S3 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 820 L	Created on July 29, 2025 at 4:06 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				
1.44	1/254x100				
b10	664 mm				
b11	375 mm				
h5	110 mm				
h13	86 mm				
11	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 / 0.22 m/s				
	6 % / 10 %				
	Electro magnetic				
	0.1 <i>W</i>				
	2 kW 4 kW				
	4 kw Traction				
	24 V / 315 Ah				
	273 kg				
	2/3 Ky				
	DC				
	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	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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