Technical sheet :

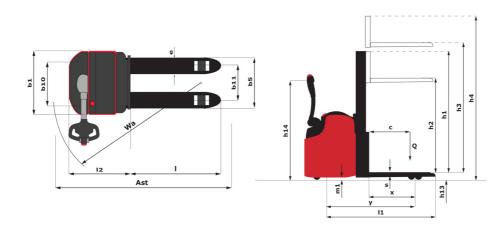




	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	Q
1.51	Nominal capacity on wrapover forks	Q
1.6	Load center of gravity	С
1.8	Distance from Load backrest to center of rear axle	х
1.9	Wheelbase	У
	Weight	
2.1	Service weight	
2.2	Weight 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	b10
3.7	Rear wheel gauge	b11
	Dimensions	
4.15	Fork height in low position	h13
4.19	Overall length	11
4.20	Length to face of forks	12
4.21	Overall width	b1
4.22	Forks section / width / length	s / e / l
4.24	Fork carriage width	b3
4.31	Ground clearance below mast	m1
4.32	Ground clearance at centre of wheelbase	m2
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast
4.35	Turning radius	Wa
4.9	Height tiller min. / max.	h14 / 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	

ES 820	LI Created on May 2, 2024 at 1:16:19 AM UTC
	Metric
	Manitou
	ES 820 LI
	Electrical
	Pedestrian
Q	2000 kg
Q	2000 kg
С	600 mm
x	674 mm
у	1467 mm
	1800 kg
	1360 kg / 2500 kg
	1250 kg / 550 kg
	Bandage
	2 / 82x68
	1
	2 / 120x50
	1 / 2
	1/254x100
b10	664 mm
b11	375 mm
h13	85 mm
11	2123 mm
12	700 mm
b1	890 mm
s / e / l	70 mm / 200 mm / 1150 mm
b3	700 mm
m1	20 mm
m2	21 mm
Ast	2660 mm
Wa	1719 mm
h14 / h14	975 mm / 1375 mm
	6 km/h / 6 km/h
	0.11 m/s / 0.20 m/s
	0.22 m/s / 0.21 m/s
	6 % / 10 %
	Electro magnetic
	2 kW
	4 kW
	Traction
	24 V / 315 Ah
	275 kg
	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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