Technical sheet :



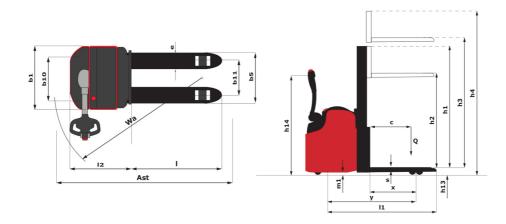




	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	Q
1.51	Nominal capacity on wrapover forks	Q
1.6	Load center of gravity	С
1.8	Distance from Load backrest to center of rear axle	x
1.9	Wheelbase	у
	Weight	
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (laden)	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	
2.0	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	
	Number of front wheels / rear wheels	
3.5		
3.5.2	Number of drive wheels / Size of drive wheels	140
3.6	Front wheel gauge	b10
3.7	Rear wheel gauge	b11
	Dimensions	
4.6	Initial lift	h5
4.15	Fork height in low position	h13
4.19	Overall length	1
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
4.34	Aisle width for 800 x 1200 pallet lengthways	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	
8.4	Sound level at the driver's ear according to DIN 12 053	
0.4	obline level at the universitient according to Dirit 12 000	

ES 820	LI Created on August 2, 2025 at 4:36 AM UTC			
	Metric			
	Manitou			
	ES 820 LI			
	Electrical			
	Pedestrian			
Q	2000 kg			
Q	2000 kg			
С	600 mm			
х	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			
11	2123 mm			
12	973 mm			
b1 s/e/l	890 mm 70 mm / 200 mm / 1150 mm			
b3	700 mm			
m1	20 mm			
m2	20 mm			
Ast	2572 mm			
Ast	2532 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			
	2 kW			
	4 kW			
	Traction			
	24 V / 315 Ah			
	273 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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