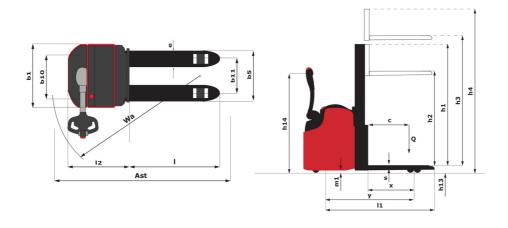
Technical sheet:

ES 820 LI



Technical characteristics Manufacturer Model Name Power source Operator type Max. capacity Nominal capacity on wrapover forks	Q Q c x y	Metric Manitou ES 820 LI Electrical Pedestrian 2000 kg 2000 kg 600 mm 674 mm
Model Name Power source Operator type Max. capacity	Q c x	ES 820 LI Electrical Pedestrian 2000 kg 2000 kg 600 mm 674 mm
Power source Operator type Max. capacity	Q c x	Electrical Pedestrian 2000kg 2000kg 600mm 674mm
Operator type Max. capacity	Q c x	Pedestrian 2000 kg 2000 kg 600 mm 674 mm
Max. capacity	Q c x	2000 kg 2000 kg 600 mm 674 mm
Max. capacity	Q c x	2000 kg 600 mm 674 mm
Nominal capacity on wrapover forks	C X	600 mm 674 mm
, , ,	x	600 mm 674 mm
Load center of gravity	x	674 mm
Distance from Load backrest to center of rear axle		
Wheelbase	,	
Weight		
Service weight		1800 kg
Weight on front axle (laden) / rear axle (laden)		1360 kg / 2500 kg
Weight on front axle (Unladen) / rear axle (Unladen)		1250 kg / 550 kg
Wheels		1230 kg / 330 kg
Tires type		Bandage
Number of load wheels / Size of load wheels		2 / 82x68
Number of castor wheels		1
Number of stabilizer wheels / Size of the stabilizer wheels		2 / 120x50
Number of front wheels / rear wheels		1 / 2
Number of drive wheels / Size of drive wheels		1/254x100
Front wheel gauge	b10	664 mm
Rear wheel gauge	b11	375 mm
Dimensions		
Fork height in low position	h13	85 mm
Overall length	l1	2123 mm
Length to face of forks	12	700 mm
Overall width	b1	890 mm
Forks section / width / length	s / e / l	70 mm / 200 mm / 1150 mm
Fork carriage width	b3	700 mm
Ground clearance below mast	m1	20 mm
Ground clearance at centre of wheelbase	m2	21 mm
Aisle Width for pallets 1000 x 1200 crossways	Ast	2660 mm
Turning radius	Wa	1719 mm
Height tiller min. / max.	h14 / h14	975 mm / 1375 mm
Performances		
Travel speed (laden / unladen)		6 km/h / 6 km/h
Lifting speed (laden / unladen)		0.11 m/s / 0.20 m/s
Lowering speed (laden / unladen)		0.22 m/s / 0.21 m/s
Max Gradeability (laden / unladen)		6 % / 10 %
Service brake		Electro magnetic
Engine		
Drive motor rating S2 60 min		2 kW
Lift motor rating at S3 15%		4 kW
Battery according to DIN 43531/35/36 A, B, C		Traction
Battery voltage / capacity		24 V / 315 Ah
Battery weight (+/- 5%)		275 kg
Miscellaneous		270 kg
Type of drive control		DC
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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