Technical sheet:

ES 820 LI



			E3 820 E1 OI	cated off ividy 5, 2024 at 7.27.47 Aivi
1.3 Model Name		Technical characteristics		Metric
1.4	1.1	Manufacturer		Manitou
1.5	1.2	Model Name		ES 820 LI
1.5	1.3	Power source		Electrical
1.51	1.4	Operator type		Pedestrian
1.6 Load center of gravity	1.5	Max. capacity	Q	2000 kg
1.6 Load center of gravity c 600 mm 1.8 Distance from Load backrest to center of rear sale x 674 mm 1.9 Wheelbase y 1457 mm 2.1 Service weight 1300 kg 1300 kg 2.2 Weight on fromt sale (laden) / rear aste (laden) 2 1300 kg 3.1 Tires type Bandage 3.1 Tires type Bandage 3.4 Number of costor wheels 2 2 / 22.68 3.4 Number of stabilizer wheels 2 2 / 22.68 3.5 Number of forton wheels / Size of thee stabilizer wheels 2 2 / 22.68 3.5 Number of forton wheels / Size of three wheels 1 1 3.5 Number of forton wheels / Size of three wheels 1 1 3.5 Number of forton wheels / Size of three wheels 1 1 3.6 Front wheel gauge b10 664 mm 4.15 Fort keight in low position 113 8.5 mm 4.17 Oreal length 11 2.2 mm	1.51	Nominal capacity on wrapover forks	Q	2000 kg
1.8 Distance from Load backrest to center of rear axie y 1467 mm	1.6	Load center of gravity	С	600 mm
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Neight Service weight 1800 kg 1800 kg 1800 kg 2500 kg				
2.1 Service weight				
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Wince s				
3.1 Tires type 8nadage 3.3 Number of load wheels / Size of load wheels 2 / 82x 68 3.4 Number of stabilizer wheels 1 3.5 Number of front wheels / Size of the stabilizer wheels 2 / 120x 50 3.5 Number of front wheels / Size of drive wheels 1 / 2 3.6 Front wheel gauge b10 664 mm 3.7 Rear wheel gauge b10 664 mm 3.7 Rear wheel gauge b10 664 mm 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 2 122 mm 4.19 Overall width 11 2 122 mm 4.20 Length to face of forks 12 700 mm 4.21 Overall width b1 890 mm 4.22 Fork section / width / length 5 / 1 70 mm / 200 mm / 1150 mm 4.21 Fork carriage width 5 / 2 70 mm 20 mm 4.31 Ground clearance at centre of wheelbase m1 20 mm 4.32	2.3			1230 kg / 330 kg
3.3 Number of load wheels / Size of load wheels 2 / 82x68 3.4 Number of eastor wheels 1 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 120x50 3.5 Number of front wheels / sear wheels 1 / 2 3.5.2 Number of drive wheels / Size of drive wheels 1 / 2 3.6 Front wheel gauge b10 664 mm 3.7 Rear wheel gauge b11 375 mm 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 212 mm 4.20 Length to face of forks 12 700 mm 4.21 Overall width b1 89 mm 4.22 Fork section / width / length 5 / 6 / 7 700 mm / 200 mm / 1150 mm 4.21 Fork carriage width 5 / 6 / 7 70 mm / 200 mm / 1150 mm 4.22 Fork carriage width 93 700 mm 4.31 Ground clearance below mast m1 20 mm 4.32 Ground clearance at centre of whelbas Wa 1719 mm	2.1			Pandaga
3.4 Number of castor wheels 2 1 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 120.2 3.5 Number of forth wheels / Year wheels 1 / 2 3.5.2 Number of drive wheels / Size of drive wheels 1 / 25 x 10.0 3.6 Front wheel gauge b10 64 mm 3.7 Rear wheel gauge b11 375 mm 4.15 Fork height in low position h13 85 mm 4.19 Overall with 11 212 700 mm 4.20 Length to face of forks 12 700 mm 4.21 Overall width 5 / 2 / 700 mm 12 700 mm 4.22 Fork seeding / width / length 5 / 2 / 700 mm 10 80 mm 4.22 Fork seeding / width b3 700 mm 700 mm 10 20 mm 10 10 mm 10 mm 20 mm 10 mm		•		*
3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 120x50 3.5 Number of front wheels / Size of drive wheels 1 / 2 3.5 Number of front wheels / Size of drive wheels 1 / 25x100 3.6 Front wheel gauge b10 664 mm 3.7 Rear wheel gauge b11 375 mm 4.15 Fork height in low position h13 85 mm 4.19 Overall length i1 2123 mm 4.20 Length to face of forks i2 700 mm 4.21 Overall width b1 890 mm 4.22 Fork section / width / length s / e/1 70 mm / 200 mm / 1150 mm 4.24 Fork carriage width b3 700 mm 4.24 Fork carriage width b3 700 mm 4.24 Fork carriage width b3 700 mm 4.23 Ground clearance at centre of wheelbase m2 21 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2660 mm 4.35 Tuming radius Wa 117 mm<				
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5.10 Service brake Electro magnetic Engine Company 6.1 Drive motor rating \$2.60 min 2 kW 6.2 Lift motor rating at \$3.15% 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%) 275 kg Miscellaneous Miscellaneous	5.8	Max Gradeability (laden / unladen)		6 % / 10 %
Engine Companies 6.1 Drive motor rating \$2.60 min 2 kW 6.2 Lift motor rating at \$3.15% 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%) 275 kg Miscellaneous Miscellaneous				
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6.4 Battery voltage / capacity 24 V / 315 Ah 6.5 Battery weight (+/- 5%) 275 kg Miscellaneous				
6.5 Battery weight (+/- 5%) 275 kg Miscellaneous		•		
Miscellaneous		, , ,		
	5.5			2/3 kg
	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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