Technical sheet :

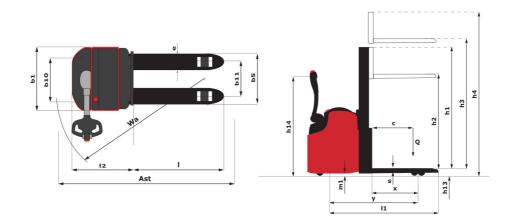




	Technical characteristics
1.1	Manufacturer
1.1	Manufacturer Model Name
1.2	Power source
1.3	
1.4	Operator type
	Max. capacity
1.6	Load center of gravity
1.8	Distance from Load backrest to center of rear axle Wheelbase
1.9	
0.1	Weight
2.1	Service weight
2.2	Weight on front axle (laden) / rear axle (laden)
2.3	Weight on front axle (Unladen) / rear axle (Unladen)
0.1	Wheels
3.1	Tires type
3.3	Number of load wheels / Size of load 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
3.7	Rear wheel gauge
	Dimensions
4.15	Fork height in low position
4.19	Overall length
4.20	Length to face of forks
4.21	Overall width
4.22	Forks section / width / length
4.24	Fork carriage width
4.31	Ground clearance below mast
4.32	Ground clearance at centre of wheelbase
4.33	Aisle Width for pallets 1000 x 1200 crossways
4.34	Aisle width for 800 x 1200 pallet lengthways
4.35	Turning radius
4.9	Height tiller min. / max.
	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 \$3 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 82(Created on August 30, 2025 at 10:04 PM UTC			
	Metric			
	Manitou			
	ES 820			
	Electrical - Lead			
	Pedestrian			
Q	2000 kg			
c	600 mm			
x	661 mm			
y	1378 mm			
,				
	1620 kg			
	1180 kg / 2510 kg			
	1125 kg / 495 kg			
	1120 kg / 120 kg			
	Polyurethane			
	2 / 82x68			
	2 / 120x50			
	3/4			
	1/254x100			
b10	664 mm			
b10	393 mm			
DII	393 11111			
h13	82 mm			
11	2048 mm			
12	898 mm			
b1	890 mm			
s/e/l	70 mm / 185 mm / 1150 mm			
b3	700 m			
m1	30 mm			
m2	25 mm			
Ast	2469 mm			
Ast	2448 mm			
Wa	1591 mm			
h14 / h14	975 mm / 1375 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			
	AC			
	65 dB			

ES 820 - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Duplex (CCD)		FVD 29	FVD 34
h1 - Mast lowered height	mm	1940	2190
h3 - Mast lifting height	mm	2940	3440
h4 - Mast extended height	mm	3365	3865
Residual capacity at max height	kg	1600	1300

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1940	2190
h2 - Mast free lift	mm	1510	1760
h3 - Mast lifting height	mm	1510	1760
h4 - Mast extended height	mm	1940	2190
Residual capacity at max height	kg	2000	2000

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1940	2190
h2 - Mast free lift	mm	1510	1760
h3 - Mast lifting height	mm	2935	3435
h4 - Mast extended height	mm	3365	3865
Residual capacity at max height	kg	1600	1300

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	mm	1900	2060	2300
h2 - Mast free lift	mm	1465	1625	1875
h3 - Mast lifting height	mm	4245	4725	5455
h4 - Mast extended height	mm	4710	5190	5880
Residual capacity at max height	kg	750	550	450



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