Technical sheet:

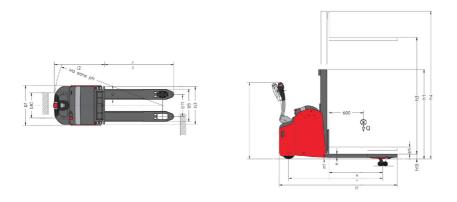
## ES 410





		ES 410 Clear	<b>ES 410</b> Created on August 13, 2025 at 12.26 AWI 010	
	Technical characteristics		Metric	
1.1	Manufacturer		Manitou	
1.2	Model Name		ES 410	
1.3	Power source		Electrical	
1.4	Operator type		Pedestrian	
1.5	Max. capacity	Q	1000 kg	
1.6	Load center of gravity	С	600 mm	
1.8	Distance from Load backrest to center of rear axle	x	723 mm	
1.9	Wheelbase	у	1286 mm	
	Weight			
2.1	Service weight		870 kg	
2.2	Weight on front axle (laden) / rear axle (laden)		709 kg / 1161 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		609 kg / 261 kg	
	Wheels			
3.1	Tires type		Polyurethane	
3.3	Number of load wheels / Size of load wheels		2 / 125x50	
3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 125x50	
3.5	Number of front wheels / rear wheels		2 / 2	
3.5.2	Number of drive wheels / Size of drive wheels		1/230x70	
3.6	Front wheel gauge	b10	517 mm	
3.7	Rear wheel gauge	b11	380 mm	
	Dimensions			
4.15	Fork height in low position	h13	85 mm	
4.19	Overall length	l1	1875 mm	
4.20	Length to face of forks	12	725 mm	
4.21	Overall width	b1	832 mm	
4.22	Forks section / width / length	s / e / l	60 mm / 180 mm / 1150 mm	
4.24	Fork carriage width	b3	680 mm	
4.31	Ground clearance below mast	m1	35 mm	
4.32	Ground clearance at centre of wheelbase	m2	30 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2605 mm	
4.34	Aisle Width for pallets 800 x 1200 crossways	Ast	2518 mm	
4.35	Turning radius	Wa	1516 mm	
4.9	Height tiller min. / max.	h14 / h14	920 mm / 1425 mm	
	Performances			
5.1	Travel speed (laden / unladen)		6 km/h / 6 km/h	
5.2	Lifting speed (laden / unladen)		0.14 m/s / 0.24 m/s	
5.3	Lowering speed (laden / unladen)		0.30 m/s / 0.20 m/s	
5.8	Max Gradeability (laden / unladen)		8 % / 10 %	
5.10	Service brake		Electro magnetic	
	Engine			
6.1	Drive motor rating S2 60 min		1.20 kW	
6.2	Lift motor rating at S3 15%		3 kW	
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B	
6.4	Battery voltage / capacity		24 V / 160 Ah	
6.5	Battery weight (+/- 5%)		165 kg	
	Miscellaneous			
8.1	Type of drive control		AC	
8.4	Sound level at the driver's ear according to DIN 12 053		65 dB	

## ES 410 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1940	2190	2390
h3 - Mast lifting height	mm	2940	3440	3840
h4 - Mast extended height	mm	3365	3865	4265
Residual capacity at max height	kg	1000	900	750

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	1000	900

Free Lift Triplex (FLT)	FLT 42	
h1 - Mast lowered height	mm	1965
h2 - Mast free lift	mm	1470
h3 - Mast lifting height	mm	4240
h4 - Mast extended height	mm	4735
Residual capacity at max height	kg	550





## **Head Office**

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