

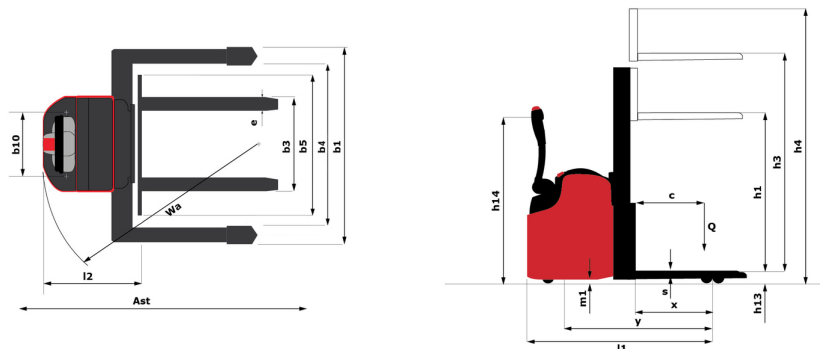
Technical sheet :

ES 410 LE



Technical characteristics			Metric	
1.1	Manufacturer			Manitou
1.2	Model Name			ES 410 LE
1.3	Power source			Electrical
1.4	Operator type			Pedestrian
1.5	Max. capacity	Q		1000 kg
1.6	Load center of gravity	c		600 mm
1.8	Distance from Load backrest to center of rear axle	x		723 mm
1.9	Wheelbase	y		1285 mm
Weight				
2.1	Service weight			920 kg
2.2	Weight on front axle (laden) / rear axle (laden)			728 kg / 1192 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)			644 kg / 276 kg
Wheels				
3.1	Tires type			Polyurethane
3.3	Number of load wheels / Size of load wheels			2 / 78x78
3.4	Number of castor wheels			1
3.4	Number of stabilizer wheels / Size of the stabilizer wheels			2 / 125x50
3.5	Number of front wheels / rear wheels			2 / 2
3.5.2	Number of drive wheels / Size of drive wheels			1/230x75
3.6	Front wheel gauge	b10		517 mm
3.7	Rear wheel gauge	b11		978 mm
Dimensions				
4.15	Fork height in low position	h13		85 mm
4.19	Overall length	l1		1870 mm
4.20	Length to face of forks	l2		720 mm
4.21	Overall width	b1		1106 mm
4.22	Forks section / width / length	s / e / l		30 mm / 100 mm / 1150 mm
4.26	Distance between wheel arms/loading surfaces	b4		850 mm
4.23	Fork carriage ISO 2328 (class/form) A/B			2B
4.24	Fork carriage width	b3		720 m
4.25	Space between arms	b3		850/1050/1250
4.31	Ground clearance below mast	m1		35 mm
4.32	Ground clearance at centre of wheelbase	m2		20 mm
4.35	Turning radius	Wa		1465 mm
4.9	Height tiller min. / max.	h14 / h14		1050 mm / 1050 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 / 180 Ah
6.5	Battery weight (+/- 5%)			176 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 LE - 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	1000

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	1960
h2 - Mast free lift	mm	1470
h3 - Mast lifting height	mm	4240
h4 - Mast extended height	mm	4240
Residual capacity at max height	kg	550



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