

Technical sheet :

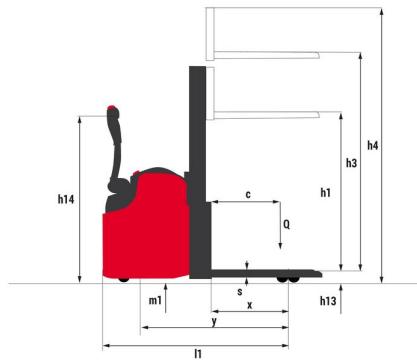
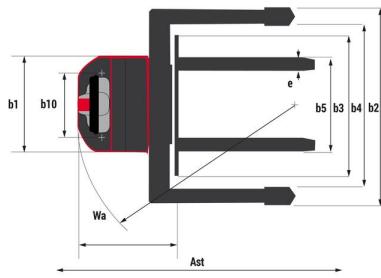
ES 410 LE



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer	Manitou	
1.2	Model Name	ES 410 LE	
1.3	Power source	Electrical - Lead	
1.4	Operator type	Pedestrian	
1.5	Max. capacity	1000 kg	
1.6	Load center of gravity	600 mm	
1.8	Distance from Load backrest to center of rear axle	723 mm	
1.9	Wheelbase	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 cushion	
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	517 mm	
3.7	Rear wheel gauge	978 mm	
Dimensions			
4.15	Fork height in low position	85 mm	
4.19	Overall length	1870 mm	
4.20	Length to face of forks	720 mm	
4.21	Overall width	1106 mm	
4.22	Forks section / width / length	30 mm / 100 mm / 1150 mm	
4.26	Distance between wheel arms/loading surfaces	850 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B	2B	
4.24	Fork carriage width	720 m	
4.25	Space between arms	850/1050/1250	
4.31	Ground clearance below mast	35 mm	
4.32	Ground clearance at centre of wheelbase	20 mm	
4.35	Turning radius	1465 mm	
4.9	Height tiller min. / max.	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



MANITOU HANDLING YOUR WORLD

Head Office

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

www.manitou.com



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes