Technical sheet:

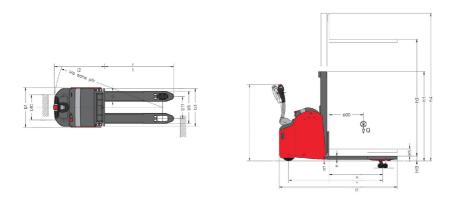
## ES 410





Technical characteristics		
		Metric
Manufacturer		Manitou
Model Name		ES 410
Power source		Electrical
Operator type		Pedestrian
Max. capacity	Q	1000 kg
Load center of gravity	С	600 mm
Distance from Load backrest to center of rear axle	X	723 mm
Wheelbase	у	1285 mm
Weight		
Service weight		870 kg
Weight on front axle (laden) / rear axle (laden)		709 kg / 1161 kg
Weight on front axle (Unladen) / rear axle (Unladen)		609 kg / 261 kg
Wheels		
Tires type		Polyurethane
Number of load wheels / Size of load wheels		2 / 125x50
Number of stabilizer wheels / Size of the stabilizer wheels		1 / 125x50
Number of front wheels / rear wheels		2 / 2
Number of drive wheels / Size of drive wheels		1/230x75
Front wheel gauge	b10	517 mm
Rear wheel gauge	b11	380 mm
Dimensions		
Fork height in low position	h13	85 mm
Overall length		1870 mm
Length to face of forks	12	720 mm
Overall width	b1	800 mm
Forks section / width / length	s / e / l	60 mm / 180 mm / 1150 mm
Fork carriage width	b3	680 mm
Ground clearance below mast	m1	35 mm
Ground clearance at centre of wheelbase	m2	20 mm
Turning radius	Wa	1465 mm
Height tiller max.	h14	1050 mm
Performances		
Travel speed (laden / unladen)		6 km/h / 6 km/h
Lifting speed (laden / unladen)		0.11 m/s / 0.16 m/s
Lowering speed (laden / unladen)		0.14 m/s / 0.12 m/s
Max Gradeability (laden / unladen)		8 % / 10 %
Service brake		Electro magnetic
Engine		
Drive motor rating S2 60 min		1 kW
Lift motor rating at S3 15%		2 kW
Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B
Battery voltage / capacity		24 V / 160 Ah
Battery weight (+/- 5%)		143 kg
Miscellaneous		
Type of drive control		AC
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**

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