Technical sheet :



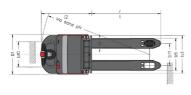


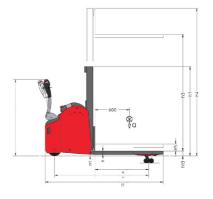


s 410	Created on April	24,	2024	at	5:22:23	PM UTC	

Technical characteristics		Metric	Imperial
Manufacturer		Manitou	Manitou
Model Name		ES 410	ES 410
Power source		Electrical	Electrical
Operator type		Pedestrian	Pedestrian
Max. capacity	Q	1000 kg	2205 lb
Load center of gravity	С	600 mm	24 in
Distance from Load backrest to center of rear axle	х	723 mm	28 in
Wheelbase	у	1285 mm	51 in
Weight			
Service weight		870 kg	1918 lb
Weight on front axle (laden) / rear axle (laden)		709 kg / 1161 kg	1563 lb / 2560 lb
Weight on front axle (Unladen) / rear axle (Unladen)		609 kg / 261 kg	1343 lb / 575 lb
Wheels			
Tires type		Polyurethane	Polyurethane
Number of load wheels / Size of load wheels		2 / 125x50	2 / 125x50
Number of stabilizer wheels / Size of the stabilizer wheels		1 / 125x50	1 / 125x50
Number of front wheels / rear wheels		2 / 2	2/2
Number of drive wheels / Size of drive wheels		1/230x75	1/230x75
Front wheel gauge	b10	517 mm	20 in
Rear wheel gauge	b11	380 mm	15 in
Dimensions			
Fork height in low position	h13	85 mm	3 in
Overall length	11	1870 mm	74 in
Length to face of forks	12	720 mm	28 in
Overall width	b1	800 mm	31 in
Forks section / width / length	s / e / l	60 mm / 180 mm / 1150 mm	2 in / 7 in / 45 in
Fork carriage width	b3	680 mm	2 m , 7 m , 10 m
Ground clearance below mast	m1	35 mm	1 in
Ground clearance at centre of wheelbase	m2	20 mm	0.79 in
Turning radius	Wa	1465 mm	58 in
Height tiller max.	h14	1050 mm	41 in
Performances	1114	1030 1111	41 11
Travel speed (laden / unladen)		6 km/h / 6 km/h	4 mph / 4 mph
Lifting speed (laden / unladen)		0.11 m/s / 0.16 m/s	0.36 ft/s / 0.52 ft/s
Lowering speed (laden / unladen)		0.14 m/s / 0.12 m/s	0.46 ft/s / 0.39 ft/s
Max Gradeability (laden / unladen)		8 % / 10 %	8 % / 10 %
Service brake		Electro magnetic	Electro magnetic
Engine			
Drive motor rating S2 60 min		1 kW	1 kW
Lift motor rating at S3 15%		2 kW	2 kW
Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B	DIN 43535-B
Battery voltage / capacity		24 V / 160 Ah	24 V / 160 Ah
Battery weight (+/- 5%)		143 kg	315 lb
Miscellaneous			
Type of drive control		AC	AC

## ES 410 - Dimensional drawing





## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	in (mm)	76.4 (1940)	86.2 (2190)	94.1 (2390)
h3 - Mast lifting height	in (mm)	115.7 (2940)	135.4 (3440)	151.2 (3840)
h4 - Mast extended height	in (mm)	132.5 (3365)	152.2 (3865)	167.9 (4265)
Residual capacity at max height	lb (kg)	2205 (1000)	1984 (900)	1653 (750)

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	in (mm)	76.4 (1940)	86.2 (2190)
h2 - Mast free lift	in (mm)	59.4 (1510)	69.3 (1760)
h3 - Mast lifting height	in (mm)	115.6 (2935)	135.2 (3435)
h4 - Mast extended height	in (mm)	132.5 (3365)	152.2 (3865)
Residual capacity at max height	lb (kg)	2205 (1000)	1984 (900)

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	in (mm)	77.4 (1965)
h2 - Mast free lift	in (mm)	57.9 (1470)
h3 - Mast lifting height	in (mm)	166.9 (4240)
h4 - Mast extended height	in (mm)	186.4 (4735)
Residual capacity at max height	lb (kg)	1213 (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