Technical sheet :



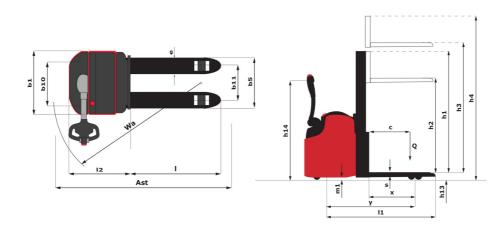




	Technical obstration
.1	Technical characteristics Manufacturer
.1	Model Name
.2	Power source
.3	Operator type
.5	Max. capacity
.6	Load center of gravity
.8	Distance from Load backrest to center of rear axle
.0	Wheelbase
.,	Weight
2.1	Service weight
2.2	Weight on front axle (laden) / rear axle (laden)
.3	Weight on front axle (Unladen) / rear axle (Unladen)
	Wheels
1	Tires type
.1 .3	Number of load wheels / Size of load wheels
4	Number of castor wheels
.4	Number of casho wheels / Size of the stabilizer wheels
.4	Number of stabilizer wheels
.J 5.2	Number of drive wheels / Size of drive wheels
.6	Front wheel gauge
.7	Rear wheel gauge
	Dimensions
15	Fork height in low position
19	Overall length
20	Length to face of forks
21	Overall width
22	Forks section / width / length
24	Fork carriage width
1	Ground clearance below mast
2	Ground clearance at centre of wheelbase
3	Aisle Width for pallets 1000 x 1200 crossways
4	Aisle width for 800 x 1200 pallet lengthways
5	Tuming radius
9	Height tiller max.
	Performances
	Travel speed (laden / unladen)
1	Lifting speed (laden / unladen)
3	Lowering speed (laden / unladen)
.8	Max Gradeability (laden / unladen)
0	Service brake
	Engine
	Drive motor rating S2 60 min
	Lift motor rating at S3 15%
1	Battery according to DIN 43531/35/36 A, B, C
1	Battery voltage / capacity
.5	Battery weight (+/- 5%)
	Miscellaneous
1	Type of drive control
	Sound level at the driver's ear according to DIN 12 053

ES 41-	• Created on August 13, 2025 at 12:25 AM UTC
	Metric
	Manitou
	ES 414
	Electrical
	Pedestrian
Q	1400 kg
С	600 mm
х	684 mm
у	1245 mm
	968 kg
	800 kg / 1624 kg
	684 kg / 284 kg
	Polyurethane
	2 / 82x68
	1
	2 / 125x50
	2 / 2
	1/230x70
b10	517 mm
b11	380 mm
h13	87 mm
11	1875 mm
12	724 mm
b1	832 mm
s / e / l	60 mm / 180 mm / 1150 mm
b3	680 mm
m1	35 mm
m2	30 mm
Ast	2581 mm
Ast	2490 mm
Wa	1400 mm
h14	1050 mm
	6 km/h / 6 km/h
	0.10 m/s / 0.24 m/s
	0.30 m/s / 0.20 m/s
	8 % / 10 %
	Electro magnetic
	1.00 Jun
	1.20 kW
	3 kW
	DIN 43535-B
	24 V / 180 Ah
	183 kg
	AC
	AC 65 dB
	02 GR

ES 414 - 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	1250	1050	850
Height at max capacity	mm	2700	2700	2700

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1940	2190
h2 - Mast free lift	mm	1420	1670
h3 - Mast lifting height	mm	2935	3435
h4 - Mast extended height	mm	3365	3865
Residual capacity at max height	kg	1250	1000
Height at max capacity	mm	2700	2700

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	mm	1890
h2 - Mast free lift	mm	1380
h3 - Mast lifting height	mm	4240
h4 - Mast extended height	mm	4678
Residual capacity at max height	kg	700
Height at max capacity	mm	2700



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