Technical sheet:

ES 614





Technical characteristics Metric 1.1 Manufacturer Manitou 1.2 Model Name ES 614 1.3 Power source Electrical 1.4 Operator type Pedestrian 1.5 Max. capacity Q 1400 kg 1.6 Load center of gravity c 600 mm 1.8 Distance from Load backrest to center of rear axle x 687 mm 1.9 Wheelbase y 1252 mm Weight 2.1 Service weight 1092 kg	
1.2 Model Name ES 614 1.3 Power source Electrical 1.4 Operator type Pedestrian 1.5 Max. capacity Q 1400 kg 1.6 Load center of gravity c 600 mm 1.8 Distance from Load backrest to center of rear axle x 687 mm 1.9 Wheelbase y 1252 mm Weight 2.1 Service weight 1092 kg	
1.3 Power source Electrical 1.4 Operator type Pedestrian 1.5 Max. capacity Q 1400 kg 1.6 Load center of gravity c 600 mm 1.8 Distance from Load backrest to center of rear axle x 687 mm 1.9 Wheelbase y 1252 mm Weight 2.1 Service weight 1092 kg	
1.4 Operator type Pedestrian 1.5 Max. capacity Q 1400 kg 1.6 Load center of gravity c 600 mm 1.8 Distance from Load backrest to center of rear axle x 687 mm 1.9 Wheelbase y 1252 mm Weight 2.1 Service weight 1092 kg	
1.5 Max. capacity Q 1400 kg 1.6 Load center of gravity c 600 mm 1.8 Distance from Load backrest to center of rear axle x 687 mm 1.9 Wheelbase y 1252 mm Weight 2.1 Service weight 1092 kg	
1.6 Load center of gravity c 600 mm 1.8 Distance from Load backrest to center of rear axle x 687 mm 1.9 Wheelbase y 1252 mm Weight 2.1 Service weight 1092 kg	
1.8 Distance from Load backrest to center of rear axle x 687 mm 1.9 Wheelbase y 1252 mm Weight 2.1 Service weight 1092 kg	
1.9 Wheelbase y 1252 mm Weight 2.1 Service weight 1092 kg	
Weight 2.1 Service weight 1092 kg	
2.1 Service weight 1092 kg	
2.2 Weight on front axle (laden) / rear axle (laden) 1037 kg / 1455 l	kg
2.3 Weight on front axle (Unladen) / rear axle (Unladen) 855 kg / 240 kr	g
Wheels	
3.1 Tires type Polyurethane	
3.3 Number of load wheels / Size of load wheels 4 / 82x68	
3.4 Number of stabilizer wheels / Size of the stabilizer wheels 1 / 120 x 54	
3.5 Number of front wheels / rear wheels 2 / 4	
3.5.2 Number of drive wheels / Size of drive wheels 1/230x70	
3.6 Front wheel gauge b10 529 mm	
3.7 Rear wheel gauge b11 380 mm	
Dimensions	
4.15 Fork height in low position h13 85 mm	
4.19 Overall length I1 1910 mm	
4.20 Length to face of forks I2 761 mm	
4.21 Overall width b1 800 mm	
4.22 Forks section / width / length s / e / l 60 mm / 185 mm / 11	.50 mm
4.24 Fork carriage width b3 700 mm	
4.32 Ground clearance at centre of wheelbase m2 30 mm	
4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2286 mm	
4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2325 mm	
4.35 Tuming radius Wa 1476 mm	
4.9 Height tiller min. / max. h14 / h14 750 mm / 1250 n	лm
Performances	
5.1 Travel speed (laden / unladen) 6 km/h / 6 km/	h
5.2 Lifting speed (laden / unladen) 0.18 m/s / 0.30 n	n/s
5.3 Lowering speed (laden / unladen) 0.27 m/s / 0.22 n	n/s
5.8 Max Gradeability (laden / unladen) 7 % / 10 %	
5.10 Service brake Electro magneti	c
Engine	
6.1 Drive motor rating S2 60 min 1.50 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 / 250 Ah	
6.5 Battery weight (+/- 5%) 220 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 614 - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	1505	1755
h4 - Mast extended height	mm	1944	2194
Residual capacity at max height	kg	1400	1400

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	mm	1930	2180	2380
h3 - Mast lifting height	mm	2935	3435	3835
h4 - Mast extended height	mm	3374	3874	4274
Residual capacity at max height	kg	1350	1100	900

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	mm	1930	2180
h2 - Mast free lift	mm	1505	1755
h3 - Mast lifting height	mm	2930	3430
h4 - Mast extended height	mm	3369	3869
Residual capacity at max height	kg	1350	1100

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	mm	1889	2049	2300
h2 - Mast free lift	mm	1465	1625	1875
h3 - Mast lifting height	mm	4245	4725	5455
h4 - Mast extended height	mm	4701	5181	5880
Residual capacity at max height	kg	700	550	500





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