Technical sheet :



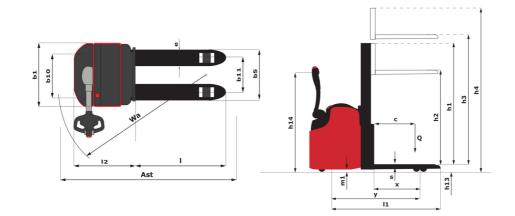




ES 612 LI Created on April 24, 2024 at 2:38:44 AM UTC
---

			April 24, 2024 at 2:38:44
Technical characteristics		Metric	Imperial
Manufacturer		Manitou	Manitou
Model Name		ES 612 LI	ES 612 LI
Power source		Electrical	Electrical
Operator type		Pedestrian	Pedestrian
Max. capacity	Q	1200 kg	2646 lb
Load center of gravity	С	600 mm	24 in
Distance from Load backrest to center of rear axle	x	834 mm	33 in
Wheelbase	у	1492 mm	59 in
Weight			
Service weight		1251 kg	2758 lb
Weight on front axle (laden) / rear axle (laden)		1295 kg / 1163 kg	2855 lb / 2564 lb
Weight on front axle (Unladen) / rear axle (Unladen)		1328 kg / 1003 kg	2928 lb / 2211 lb
Wheels			
Tires type		Bandage	Bandage
Number of load wheels / Size of load wheels		2 / 140x60	2 / 140x60
Number of stabilizer wheels / Size of the stabilizer wheels		1 / 140x60	1 / 140x60
Number of front wheels / rear wheels		2 / 4	2 / 4
Number of drive wheels / Size of drive wheels		1/230x70	1/230x70
Front wheel gauge	b10	529 mm	21 in
Rear wheel gauge	b11	380 mm	15 in
Dimensions			
Initial lift	h5	110 mm	4 in
Overall length	11	2162 mm	85 in
Length to face of forks	12	973 mm	38 in
Overall width	b1	800 mm	31 in
Forks section / width / length	s / e / l	60 mm / 185 mm / 1190 mm	2 in / 7 in / 47 in
Fork carriage width	b3	700 mm	28 in
Ground clearance at centre of wheelbase	m2	30 mm	1 in
Aisle Width for pallets 1000 x 1200 crossways	Ast	2521 mm	99 in
Aisle width for 800 x 1200 pallet lengthways	Ast	2428 mm	96 in
Tuming radius	Wa	1716 mm	68 in
Height tiller min. / max.	h14 / h14	750 mm / 1250 mm	30 in / 49 in
Performances			
Travel speed (laden / unladen)		4.50 km/h / 4.50 km/h	3 mph / 3 mph
Lifting speed (laden / unladen)		0.18 m/s / 0.30 m/s	0.59 ft/s / 0.98 ft/s
Lowering speed (laden / unladen)		0.27 m/s / 0.22 m/s	0.89 ft/s / 0.72 ft/s
Max Gradeability (laden / unladen)		7 % / 10 %	7 % / 10 %
Service brake		Electro magnetic	Electro magnetic
Engine			
Drive motor rating S2 60 min		1.50 kW	1.50 kW
Lift motor rating at \$3 15%		3 kW	3 kW
Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B	DIN 43535-B
Battery voltage / capacity		24 V / 180 Ah	24 V / 180 Ah
Battery weight (+/- 5%)		189 kg	417 lb
Miscellaneous		105 Kg	417 10
Type of drive control		AC	AC
Sound level at the driver's ear according to DIN 12 053		65 dB	65 dB

## ES 612 LI - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	in (mm)	76.9 (1953)	86.7 (2203)
h2 - Mast free lift	in (mm)	59.3 (1506)	69.1 (1756)
h3 - Mast lifting height	in (mm)	59.3 (1506)	69.1 (1756)
h4 - Mast extended height	in (mm)	77.2 (1960)	87 (2210)
Residual capacity at max height	lb (kg)	2646 (1200)	2646 (1200)

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	in (mm)	76.9 (1953)	86.7 (2203)	94.6 (2403)
h3 - Mast lifting height	in (mm)	115.6 (2936)	135.3 (3436)	151 (3836)
h4 - Mast extended height	in (mm)	133.5 (3390)	153.1 (3890)	168.9 (4290)
Residual capacity at max height	lb (kg)	2646 (1200)	2315 (1050)	1764 (800)

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	in (mm)	76.9 (1953)	86.7 (2203)
h2 - Mast free lift	in (mm)	59.3 (1506)	69.1 (1756)
h3 - Mast lifting height	in (mm)	115.4 (2931)	135.1 (3431)
h4 - Mast extended height	in (mm)	133267.7 (3385000)	153 (3885)
Residual capacity at max height	lb (kg)	2646 (1200)	2315 (1050)

Free Lift Triplex (FLT)		FLT 42	FLT 45
h1 - Mast lowered height	in (mm)	75.2 (1911)	81.5 (2071)
h2 - Mast free lift	in (mm)	57.7 (1466)	64 (1626)
h3 - Mast lifting height	in (mm)	167.2 (4246)	186.1 (4726)
h4 - Mast extended height	in (mm)	185.9 (4723)	204.8 (5203)
Residual capacity at max height	lb (kg)	1433 (650)	1279 (580)



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