

Technical sheet :

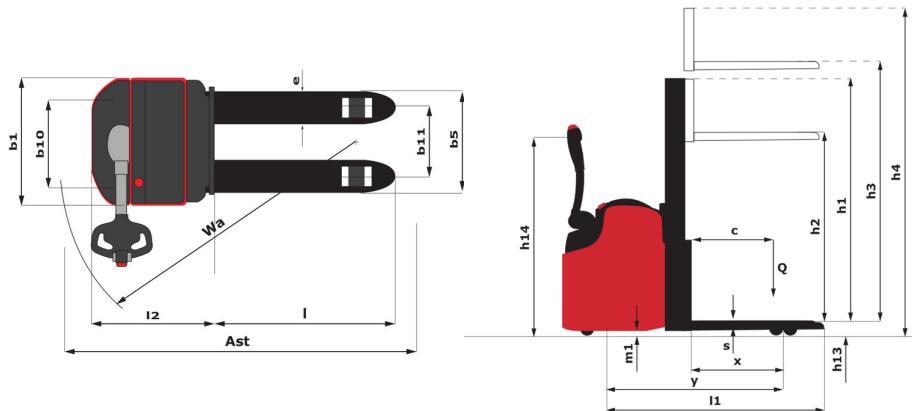
ES 612 LI



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer	Manitou	
1.2	Model Name	ES 612 LI	
1.3	Power source	Electrical - Lead	
1.4	Operator type	Pedestrian	
1.5	Max. capacity	1200 kg	
1.6	Load center of gravity	600 mm	
1.8	Distance from Load backrest to center of rear axle	855 mm	
1.9	Wheelbase	1492 mm	
Weight			
2.1	Service weight	1251 kg	
2.2	Weight on front axle (laden) / rear axle (laden)	1133 kg / 1318 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	973 kg / 278 kg	
Wheels			
3.1	Tires type	Polyurethane cushion	
3.3	Number of load wheels / Size of load wheels	4 / 82 x 68	
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	529 mm	
3.7	Rear wheel gauge	380 mm	
Dimensions			
4.19	Overall length	2024 mm	
4.20	Length to face of forks	834 mm	
4.21	Overall width	800 mm	
4.22	Forks section / width / length	60 mm / 185 mm / 1190 mm	
4.24	Fork carriage width	700 mm	
4.32	Ground clearance at centre of wheelbase	30 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	2521 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	2428 mm	
4.6	Initial lift	110 mm	
4.35	Turning radius	1716 mm	
4.9	Height tiller min. / max.	750 mm / 1250 mm	
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 m/s	
5.3	Lowering speed (laden / unladen)	0.27 m/s / 0.22 m/s	
5.8	Max Gradeability (laden / unladen)	7 % / 10 %	
5.10	Service brake	Electro magnetic	
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 / 180 Ah	
6.5	Battery weight (+/- 5%)	189 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 612 LI - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)	CCS 15	CCS 17
h1 - Mast lowered height mm	1953	2203
h2 - Mast free lift mm	1506	1756
h3 - Mast lifting height mm	1506	1756
h4 - Mast extended height mm	1960	2210
Residual capacity at max height kg	1200	1200

Full Visibility Duplex (FVD)	FVD 29	FVD 34	FVD 38
h1 - Mast lowered height mm	1953	2203	2403
h3 - Mast lifting height mm	2936	3436	3836
h4 - Mast extended height mm	3390	3890	4290
Residual capacity at max height kg	1200	1050	800

Free Lift Duplex (FLD)	FLD 29	FLD 34
h1 - Mast lowered height mm	1953	2203
h2 - Mast free lift mm	1506	1756
h3 - Mast lifting height mm	2931	3431
h4 - Mast extended height mm	3385000	3885
Residual capacity at max height kg	1200	1050

Free Lift Triplex (FLT)	FLT 42	FLT 45
h1 - Mast lowered height mm	1911	2071
h2 - Mast free lift mm	1466	1626
h3 - Mast lifting height mm	4246	4726
h4 - Mast extended height mm	4723	5203
Residual capacity at max height kg	650	580



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