

Technical sheet :

# **ES 612 LI**

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 **MANITOU**  
HANDLING YOUR WORLD

Technical characteristics			Metric	
1.1	Manufacturer			Manitou
1.2	Model Name			ES 612 LI
1.3	Power source			Electrical
1.4	Operator type			Pedestrian
1.5	Max. capacity	Q		1200 kg
1.6	Load center of gravity	c		600 mm
1.8	Distance from Load backrest to center of rear axle	x		834 mm
1.9	Wheelbase	y		1492 mm
Weight				
2.1	Service weight			1251 kg
2.2	Weight on front axle (laden) / rear axle (laden)			1295 kg / 1163 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)			1328 kg / 1003 kg
Wheels				
3.1	Tires type			Bandage
3.3	Number of load wheels / Size of load wheels			2 / 140x60
3.4	Number of stabilizer wheels / Size of the stabilizer wheels			1 / 140x60
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				
4.6	Initial lift	h5		110 mm
4.19	Overall length	l1		2162 mm
4.20	Length to face of forks	l2		973 mm
4.21	Overall width	b1		800 mm
4.22	Forks section / width / length	s / e / l		60 mm / 185 mm / 1190 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		2521 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast		2428 mm
4.35	Turning radius	Wa		1716 mm
4.9	Height tiller min. / max.	h14 / h14		750 mm / 1250 mm
Performances				
5.1	Travel speed (laden / unladen)			4.50 km/h / 4.50 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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