

Technical sheet :

ES 612 LI



	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 612 LI
1.3	Power source		Battery
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1200 kg
1.6	Load centre 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	Tyres type		Bandage
3.5.2	Number of drive wheels / Size of drive wheels		1x230x70
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
3.6	Front wheel gauge	b10	529 mm
3.7	Rear wheel gauge	b11	380 mm
	Dimensions		
4.9	Height tiller up min. / max.	h14 / h14	750 mm / 1250 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
4.35	Turning radius	Wa	1849 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
5.10	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 / Batteries 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(A)

ES 612 LI - Dimensional drawing



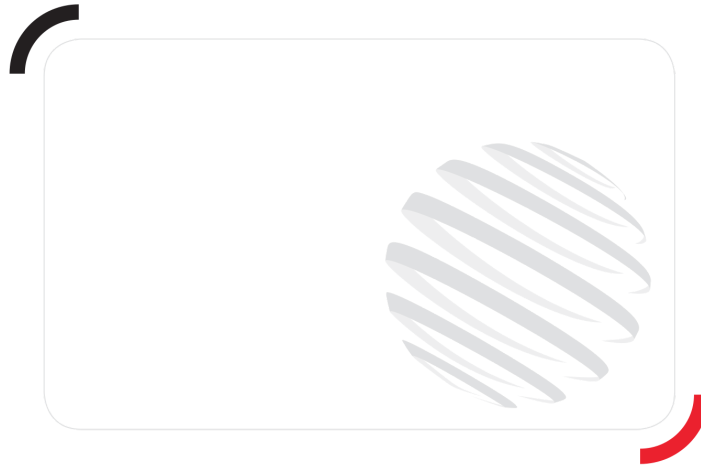
Characteristics of masts and residual capacities

Central Cylinder Simplex		CCS 15	CCS 17
h3 - Mast lifting height *	mm	2935	2935
h1 - Mast height lowered	mm	1953	1953
h4 - Mast height extended	mm	3390	3390
Residual capacity without attachment (Industrial load chart)	kg	1200	1200

Full Visibility Duplex		FVD 29	FVD 34	FVD 38
h3 - Mast lifting height *	mm	2935	2935	2935
h1 - Mast height lowered	mm	1953	1953	1953
h4 - Mast height extended	mm	3390	3390	3390
Residual capacity without attachment (Industrial load chart)	kg	1200	1050	800

Free Lift Duplex		FLD 34
h3 - Mast lifting height *	mm	2935
h1 - Mast height lowered	mm	1953
h4 - Mast height extended	mm	3390
Residual capacity without attachment (Industrial load chart)	kg	1100

Free Lift Triplex		FLT 42	FLT 45
h3 - Mast lifting height *	mm	2935	2935
h1 - Mast height lowered	mm	1953	1953
h4 - Mast height extended	mm	3390	3390
Residual capacity without attachment (Industrial load chart)	kg	650	580



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