Technical sheet :

ES 612 LI (5PTS)

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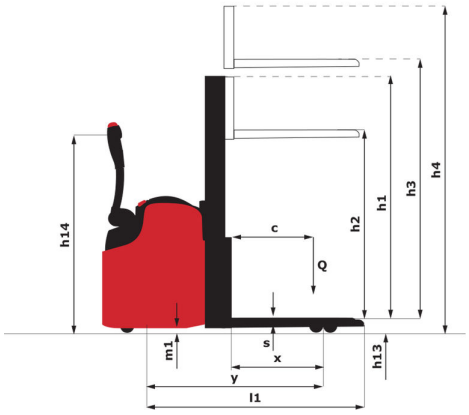
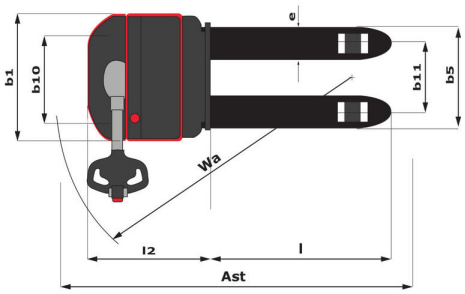
	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 612 LI 5 points
1.3	Power source		Battery
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1200 kg
1.6	Load centre of gravity	c	600 mm
1.8	Distance from Load backrest to center of rear axle	x	834 mm
	Weight		
2.1	Service weight		1251 kg
2.2	Weight on front axle (laden) / rear axle (laden)		1295 kg / 1163 kg
	Wheels		
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		3 / 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
4.32	Ground clearance at centre of wheelbase	m2	30 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)

Dimensional drawing





Characteristics of masts and residual capacities

Central Cylinder Simplex		CCS 15	CCS 17
h3 - Mast lifting height *	mm	2935000	2935000
h1 - Mast height lowered	mm	1953	1953
h4 - Mast height extended	mm	3390000	3390000
Residual capacity without attachment (Industrial load chart)	kg	1200	1200

Full Visibility Duplex		FVD 29	FVD 34	FVD 38
h3 - Mast lifting height *	mm	2935000	2935000	2935000
h1 - Mast height lowered	mm	1953	1953	1953
h4 - Mast height extended	mm	3390000	3390000	3390000
Residual capacity without attachment (Industrial load chart)	kg	1200	1050	800

Free Lift Duplex		FLD 29	FLD 34
h3 - Mast lifting height *	mm	2935000	2935000
h1 - Mast height lowered	mm	1953	1953
h4 - Mast height extended	mm	3390000	3390000
Residual capacity without attachment (Industrial load chart)	kg	1200	1050

Free Lift Triplex		FLT 42	FLT 45
h3 - Mast lifting height *	mm	2935000	2935000
h1 - Mast height lowered	mm	1953	1953
h4 - Mast height extended	mm	3390000	3390000
Residual capacity without attachment (Industrial load chart)	kg	650	580

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