

Technical sheet :

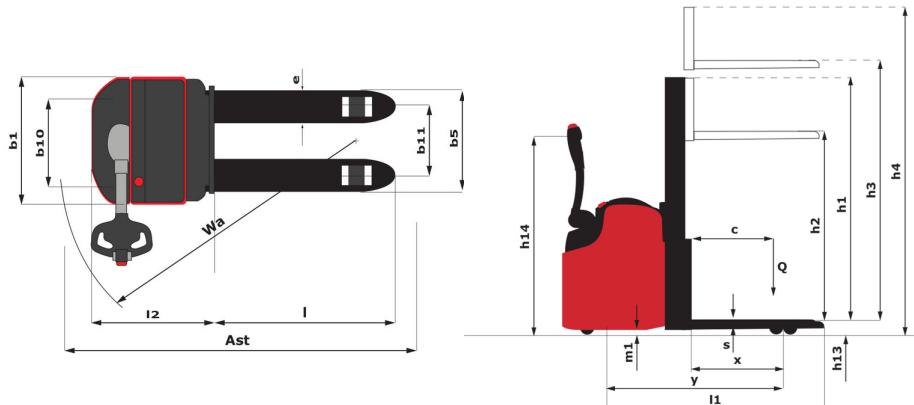
ES 614 LI



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer		Manitou
1.2	Model Name		ES 614 LI
1.3	Power source		Electrical - Lead
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1400 kg
1.6	Load center of gravity	c	600 mm
1.8	Distance from Load backrest to center of rear axle	x	848 mm
1.9	Wheelbase	y	1492 mm
Weight			
2.1	Service weight		1283 kg
2.2	Weight on front axle (laden) / rear axle (laden)		1189 kg / 1493 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1003 kg / 280 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	b10	529 mm
3.7	Rear wheel gauge	b11	380 mm
Dimensions			
4.15	Fork height in low position	h13	86 mm
4.19	Overall length	l1	2174 mm
4.20	Length to face of forks	l2	846 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	2520 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2653 mm
4.6	Initial lift	h5	110 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)		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%)		220 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 614 LI - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)	
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
1400	1400

CCS 15	CCS 17
1953	2203
1506	1756
1506	1756
1960	2210
1400	1400

Full Visibility Duplex (FVD)	
h1 - Mast lowered height	mm
1953	2203
h3 - Mast lifting height	mm
2936	3436
h4 - Mast extended height	mm
3390	3890
Residual capacity at max height	kg
1300	1050
	800

FVD 29	FVD 34	FVD 38
1953	2203	2403
1506	1756	3836
2931	3431	4290
3385	3885	
1300	1050	800

Free Lift Duplex (FLD)	
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
3385	3885
Residual capacity at max height	kg
1300	1050

FLD 29	FLD 34
1953	2203
1506	1756
2931	3431
3385	3885
1300	1050

Free Lift Triplex (FLT)	
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
670	470
	450

FLT 42	FLT 47	FLT 54
1911	2071	2315
1466	1626	1880
4246	4726	5460
4723	5203	5895
670	470	450

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