

Technical sheet :

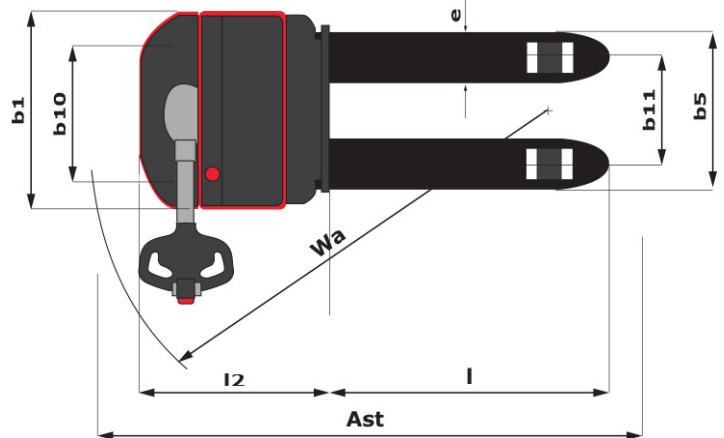
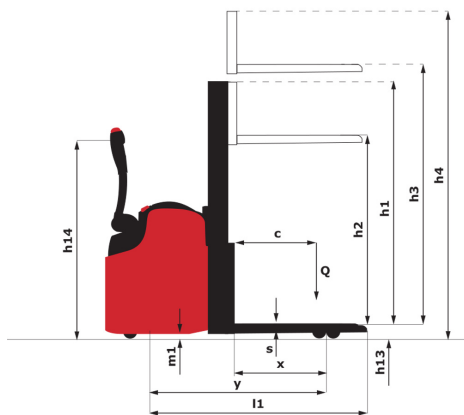
# **ES 614 (5PTS)**

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	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 614 - 5 points
1.3	Power source		Battery
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1400 kg
1.6	Load centre of gravity	c	600 mm
1.8	Distance from Load backrest to center of rear axle	x	687 mm
1.9	Wheelbase	y	1250 mm
	<b>Weight</b>		
2.1	Service weight		1092 kg
2.2	Weight on front axle (laden) / rear axle (laden)		1037 kg / 1453 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		851 kg / 240 kg
	<b>Wheels</b>		
3.1	Tyres type		Bandage
3.5.2	Number of drive wheels - Size of drive wheels		1 x 230x70
3.3	Number of load wheels - Size of load wheels		2 x 140x60
3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 x 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
	<b>Dimensions</b>		
4.2	Mast height lowered	h1	1930 mm
4.4	Mast lifting height *	h3	2935 m
4.5	Mast height extended	h4	3374 m
4.9	Height tiller up min. / max.	h14 / h14	750 mm / 1250 mm
4.15	Fork height in low position	h13	85 mm
4.19	Overall length	l1	2049 mm
4.20	Length to face of forks	l2	900 mm
4.21	Overall width	b1	800 mm
4.22	Forks section / width / length	s / e / l	60 mm x 185 mm / 1150 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 1000 x 1200 pallet widthways	Ast	2490 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2464 mm
4.35	Turning radius	Wa	1614 mm
	<b>Performances</b>		
5.1	Travel speed (laden / unladen)		4.5 km/h / 4.5 km/h
5.2	Lifting speed (laden / unladen)		0.18 m/s / 0.3 m/s
5.3	Lowering speed (laden / unladen)		0.27 m/s / 0.22 m/s
5.7	Gradeability (laden / unladen)		7 % / 10 %
5.10	Service brake		Electro magnetic
	<b>Engine</b>		
6.1	Drive motor rating S2 60 min		1.5 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
	<b>Miscellaneous</b>		
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	CSS 17
h1 - Height mast lowered *	mm	1953	2203
h2 - Free lift	mm	1506	1756
h3 - Lifting Height	mm	1506	1755
h4 - Height mast extended *	mm	1960	2210
Residual capacity without attachment (Industrial load chart)	kg	1400	1400

Full Visibility Duplex		FVD 29	FVD 34	FVD 38
h1 - Height mast lowered *	mm	1953	2293000	2403
h3 - Lifting Height	mm	2935	3435000	3835
h4 - Height mast extended *	mm	3390	3890000	4290
Residual capacity without attachment (Industrial load chart)	kg	1300	1050	800

Free Lift Duplex		FLD 29	FLD 34
h1 - Height mast lowered *	mm	1953	2203000
h2 - Free lift	mm	1506	1756
h3 - Lifting Height	mm	2930	3430000
h4 - Height mast extended *	mm	3385	3885000
Residual capacity without attachment (Industrial load chart)	kg	1300	1050

Free Lift Triplex		FLT 42	FLT 47	FLT 54
h1 - Height mast lowered *	mm	1911	2071	2300
h2 - Free lift	mm	1466	1626	1875
h3 - Lifting Height	mm	4245	4725	5455
h4 - Height mast extended *	mm	4723	5203	5880
Residual capacity without attachment (Industrial load chart)	kg	670	470	450



Siège Social  
430 rue de l'Aubinière - 44150 Ancenis Cedex - France  
Tel: +33(0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97  
[www.manitou.com](http://www.manitou.com)



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