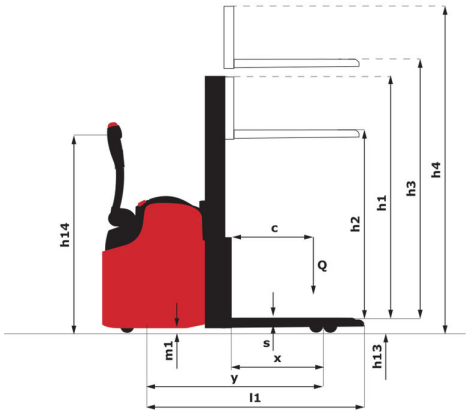
Technical sheet :

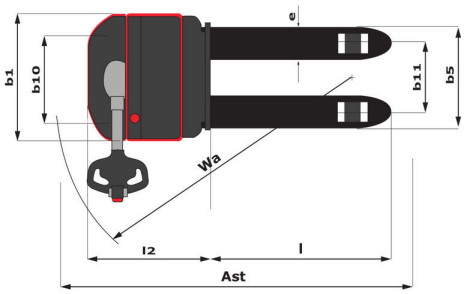
ES 614

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 614
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
	Weight		
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
	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 / 82x68
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
4.15	Fork height in low position	h13	85 mm
4.19	Overall length	l1	1910 mm
4.20	Length to face of forks	l2	761 mm
4.21	Overall width	b1	800 mm
4.22	Forks section / width / length	s / e / l	60 mm / 185 mm / 1150 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	1588 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
5.10	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	2935	2935
h1 - Mast height lowered	mm	1930	1930
h4 - Mast height extended	mm	3374000	3374000
Residual capacity without attachment (Industrial load chart)	kg	1400	1400

Full Visibility Duplex		FVD 29	FVD 34	FVD 38
h3 - Mast lifting height *	mm	2935	2935	2935
h1 - Mast height lowered	mm	1930	1930	1930
h4 - Mast height extended	mm	3374000	3374000	3374000
Residual capacity without attachment (Industrial load chart)	kg	1350	1100	900

Free Lift Duplex		FLD 29	FLD 34
h3 - Mast lifting height *	mm	2935	2935
h1 - Mast height lowered	mm	1930	1930
h4 - Mast height extended	mm	3374000	3374000
Residual capacity without attachment (Industrial load chart)	kg	1350	1100

Free Lift Triplex		FLT 42	FLT 47	FLT 54
h3 - Mast lifting height *	mm	2935	2935	2935
h1 - Mast height lowered	mm	1930	1930	1930
h4 - Mast height extended	mm	3374000	3374000	3374000
Residual capacity without attachment (Industrial load chart)	kg	700	550	500

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