Technical sheet :

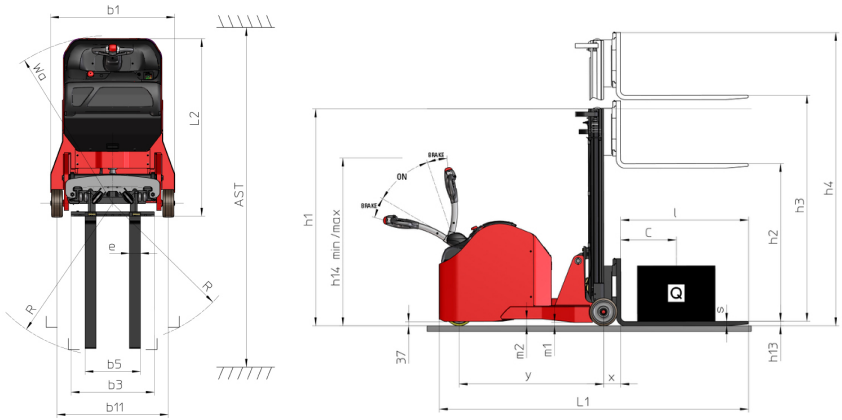
ES-C 713



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		ES-C 713	ES-C 713
1.3	Power source		Electrical	Electrical
1.4	Operator type		Pedestrian	Pedestrian
1.5	Max. capacity	Q	1300 kg	2866 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Distance from Load backrest to center of rear axle	x	157 mm	6 in
1.9	Wheelbase	y	1200 mm	47 in
	Weight			
2.1	Service weight		2200 kg	4850 lb
2.2	Weight on front axle (laden) / rear axle (laden)		450 kg / 3050 kg	992 lb / 6724 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1150 kg / 1050 kg	2535 lb / 2315 lb
	Wheels			
3.1	Tires type		Polyurethane	Polyurethane
3.3	Number of load wheels / Size of load wheels		2 / 250x100	2 / 250x100
3.5	Number of front wheels / rear wheels		1 / 2	1 / 2
3.5.2	Number of drive wheels / Size of drive wheels		1/254x100	1/254x100
3.7	Rear wheel gauge	b11	1003 mm	39 in
	Dimensions			
4.15	Fork height in low position	h13	35 mm	1 in
4.19	Overall length	l1	2690 mm	106 in
4.20	Length to face of forks	l2	1540 mm	61 in
4.21	Overall width	b1	1120 mm	44 in
4.22	Forks section / width / length	s / e / l	40 mm / 100 mm / 1150 mm	2 in / 4 in / 45 in
4.24	Fork carriage width	b3	750 mm	30 in
4.31	Ground clearance below mast	m1	31 mm	1 in
4.32	Ground clearance at centre of wheelbase	m2	62 mm	2 in
4.35	Turning radius	Wa	1560 mm	61 in
4.9	Height tiller min. / max.	h14 / h14	1405 mm / 1005 mm	55 in / 40 in
	Performances			
5.1	Travel speed (laden / unladen)		6 km/h / 6 km/h	4 mph / 4 mph
5.2	Lifting speed (laden / unladen)		0.11 m/s / 0.20 m/s	0.36 ft/s / 0.66 ft/s
5.3	Lowering speed (laden / unladen)		0.22 m/s / 0.21 m/s	0.72 ft/s / 0.69 ft/s
5.8	Max Gradeability (laden / unladen)		5 % / 8 %	5 % / 8 %
5.10	Service brake		Electro magnetic	Electro magnetic
	Engine			
6.1	Drive motor rating S2 60 min		2 kW	2 kW
6.2	Lift motor rating at S3 15%		4 kW	4 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B	DIN 43535-B
6.4	Battery voltage / capacity		24 V / 315 Ah	24 V / 315 Ah
6.5	Battery weight (+/- 5%)		275 kg	606 lb
	Miscellaneous			
8.1	Type of drive control		DC	DC
8.4	Sound level at the driver's ear according to DIN 12 053		65 dB	65 dB

ES-C 713 - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	in (mm)	77 (1955)	86.8 (2205)
h2 - Mast free lift	in (mm)	57.7 (1465)	67.5 (1715)
h3 - Mast lifting height	in (mm)	57.7 (1465)	67.5 (1715)
h4 - Mast extended height	in (mm)	79.9 (2030)	89.8 (2280)
Residual capacity at max height	lb (kg)	2866 (1300)	2866 (1300)

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
Mast/fork carriage tilt, forward	°	3	3	3
h1 - Mast lowered height	in (mm)	77 (1955)	86.8 (2205)	94.7 (2405)
h3 - Mast lifting height	in (mm)	113.8 (2890)	133.5 (3390)	149.2 (3790)
h4 - Mast extended height	in (mm)	136 (3455)	155.7 (3955)	171.5 (4355)
Residual capacity at max height	lb (kg)	2866 (1300)	2866 (1300)	2425 (1100)

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	in (mm)	77 (1955)	86.8 (2205)
h2 - Mast free lift	in (mm)	57.7 (1465)	67.5 (1715)
h3 - Mast lifting height	in (mm)	113.8 (2890)	133.5 (3390)
h4 - Mast extended height	in (mm)	136 (3455)	155.7 (3955)
Residual capacity at max height	lb (kg)	2866 (1300)	2866 (1300)

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
h1 - Mast lowered height	in (mm)	75.4 (1915)	81.7 (2075)	91.1 (2315)
h2 - Mast free lift	in (mm)	56.1 (1425)	62.4 (1585)	72.2 (1835)
h3 - Mast lifting height	in (mm)	165.6 (4205)	184.4 (4685)	213.2 (5415)
h4 - Mast extended height	in (mm)	187.8 (4770)	206.7 (5250)	235.4 (5980)
Residual capacity at max height	lb (kg)	1984 (900)	1543 (700)	1102 (500)

Head Office
B.P. 249 - 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



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