

Technical sheet :

# ES-C 713



 **MANITOU**  
HANDLING YOUR WORLD

Technical characteristics			Metric	
1.1	Manufacturer			Manitou
1.2	Model Name			ES-C 713
1.3	Power source			Electrical - Lead
1.4	Operator type			Pedestrian
1.5	Max. capacity	Q		1300 kg
1.6	Load center of gravity	c		500 mm
1.8	Distance from Load backrest to center of rear axle	x		157 mm
1.9	Wheelbase	y		1200 mm
Weight				
2.1	Service weight			2200 kg
2.2	Weight on front axle (laden) / rear axle (laden)			450 kg / 3050 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)			1150 kg / 1050 kg
Wheels				
3.1	Tires type			Polyurethane cushion
3.3	Number of load wheels / Size of load wheels			2 / 250x100
3.5	Number of front wheels / rear wheels			1 / 2
3.5.2	Number of drive wheels / Size of drive wheels			1/254x100
3.7	Rear wheel gauge	b11		1003 mm
Dimensions				
4.15	Fork height in low position	h13		45 mm
4.19	Overall length	l1		2690 mm
4.20	Length to face of forks	l2		1540 mm
4.21	Overall width	b1		1120 mm
4.22	Forks section / width / length	s / e / l		40 mm / 100 mm / 1150 mm
4.24	Fork carriage width	b3		750 mm
4.31	Ground clearance below mast	m1		31 mm
4.32	Ground clearance at centre of wheelbase	m2		62 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast		3028 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast		3136 mm
4.35	Turning radius	Wa		1560 mm
4.9	Height tiller min. / max.	h14		1005 mm / 1405 mm
Performances				
5.1	Travel speed (laden / unladen)			6 km/h / 6 km/h
5.2	Lifting speed (laden / unladen)			0.11 m/s / 0.20 m/s
5.3	Lowering speed (laden / unladen)			0.22 m/s / 0.21 m/s
5.8	Max Gradeability (laden / unladen)			5 % / 8 %
5.10	Service brake			Electro magnetic
Engine				
6.1	Drive motor rating S2 60 min			2 kW
6.2	Lift motor rating at S3 15%			4 kW
6.3	Battery according to DIN 43531/35/36 A, B, C			DIN 43535-B
6.4	Battery voltage / capacity			24 V / 315 Ah
6.5	Battery weight (+/- 5%)			275 kg
Miscellaneous				
8.1	Type of drive control			DC
8.4	Sound level at the driver's ear according to DIN 12 053			65 dB

### ES-C 713 - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
$\alpha$ - Mast/fork carriage tilt, forward	°	4	4
$\beta$ - Mast/fork carriage tilt, backward	°	6	6
h1 - Mast lowered height	mm	1955	2205
h2 - Mast free lift	mm	1420	1670
h3 - Mast lifting height	mm	1500	1700
h4 - Mast extended height	mm	2030	2280
Residual capacity at max height	kg	1300	1300

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
$\alpha$ - Mast/fork carriage tilt, forward	°	3	3	3
h1 - Mast lowered height	mm	1955	2205	2405
h3 - Mast lifting height	mm	2900	3400	3800
h4 - Mast extended height	mm	3460	3960	4360
Residual capacity at max height	kg	1300	1300	1100

Free Lift Duplex (FLD)		FLD 29	FLD 34
$\alpha$ - Mast/fork carriage tilt, forward	°	4	4
$\beta$ - Mast/fork carriage tilt, backward	°	6	6
h1 - Mast lowered height	mm	1955	2205
h2 - Mast free lift	mm	1420	1670
h3 - Mast lifting height	mm	2900	3400
h4 - Mast extended height	mm	3460	3960
Residual capacity at max height	kg	1300	1300

Free Lift Triplex (FLT)		FLT 42	FLT 47	FLT 54
$\alpha$ - Mast/fork carriage tilt, forward	°	4	4	4
$\beta$ - Mast/fork carriage tilt, backward	°	6	6	6
h1 - Mast lowered height	mm	1915	2075	2315
h2 - Mast free lift	mm	1380	1540	1790
h3 - Mast lifting height	mm	4200	4700	5400
h4 - Mast extended height	mm	4770	5250	5980
Residual capacity at max height	kg	900	700	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](http://www.manitou.com)



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