

Technical sheet :

ES 410



	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ES 410
1.3	Power source		Battery
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1000 kg
1.6	Load centre of gravity	c	600 mm
1.8	Distance from Load backrest to center of rear axle	x	723 mm
1.9	Wheelbase	y	1285 mm
	Weight		
2.1	Service weight		870 kg
2.2	Weight on front axle (laden) / rear axle (laden)		709 kg / 1161 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		609 kg / 261 kg
	Wheels		
3.1	Tyres type		Polyurethane
3.5.2	Number of drive wheels / Size of drive wheels		1x230x75
3.3	Number of load wheels / Size of load wheels		2 / 125x50
3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 125x50
3.5	Number of front wheels / rear wheels		2 / 2
3.6	Front wheel gauge	b10	517 mm
3.7	Rear wheel gauge	b11	380 mm
	Dimensions		
4.9	Height tiller up max.	h14	1050 mm
4.15	Fork height in low position	h13	85 mm
4.19	Overall length	l1	1870 mm
4.20	Length to face of forks	l2	720 mm
4.21	Overall width	b1	800 mm
4.22	Forks section / width / length	s / e / l	60 mm / 180 mm / 1150 mm
4.24	Fork carriage width	b3	680 mm
4.31	Ground clearance below mast	m1	35 mm
4.32	Ground clearance at centre of wheelbase	m2	20 mm
4.35	Turning radius	Wa	1465 mm
	Performances		
5.1	Travel speed (laden / unladen)		6 km/h / 6 km/h
5.2	Lifting speed (laden / unladen)		0.11 m/s / 0.16 m/s
5.3	Lowering speed (laden / unladen)		0.14 m/s / 0.12 m/s
5.10	Service brake		Electro magnetic
	Engine		
6.1	Drive motor rating S2 60 min		1 kW
6.2	Lift motor rating at S3 15%		2 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B
6.4	Battery / Batteries capacity		24 V / 160 Ah
6.5	Battery weight (+/- 5%)		143 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)

ES 410 - Dimensional drawing

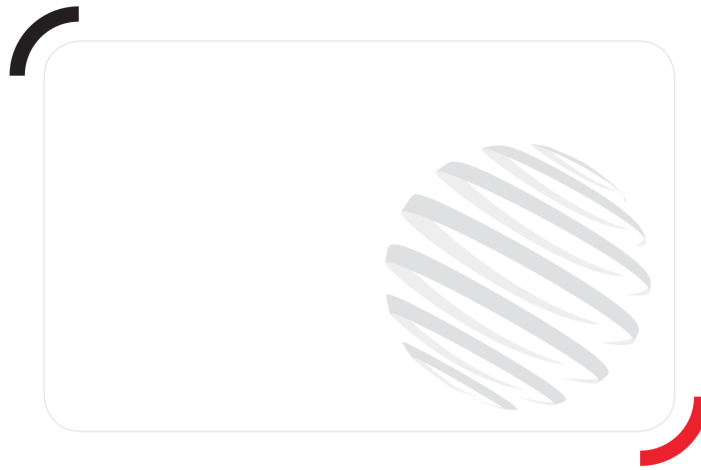


Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 29	FVD 34	FVD 38
h3 - Mast lifting height *	mm	2930	2930	2930
h1 - Mast height lowered	mm	1930	1930	1930
h4 - Mast height extended	mm	3365	3365	3365
Residual capacity without attachment (Industrial load chart)	kg	1000	900	750

Free Lift Duplex		FLD 29	FLD 34
h3 - Mast lifting height *	mm	2930	2930
h1 - Mast height lowered	mm	1930	1930
h4 - Mast height extended	mm	3365	3365
Residual capacity without attachment (Industrial load chart)	kg	1000	850

Free Lift Triplex		FLT 42
h3 - Mast lifting height *	mm	2930
h1 - Mast height lowered	mm	1930
h4 - Mast height extended	mm	3365
Residual capacity without attachment (Industrial load chart)	kg	550



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



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