Technical sheet:

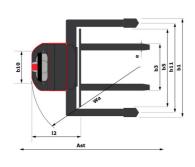
ES 410 ET

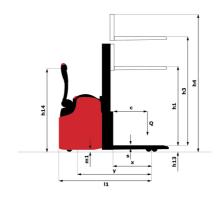




	ES 410 ET Created on			April 25, 2024 at 12:43:59 PM UT	
	Technical characteristics		Metric	Imperial	
1.1	Manufacturer		Manitou	Manitou	
1.2	Model Name		ES 410 ET	ES 410 ET	
1.3	Power source		Electrical	Electrical	
1.4	Operator type		Pedestrian	Pedestrian	
1.5	Max. capacity	Q	1000 kg	2205 lb	
1.6	Load center of gravity	С	600 mm	24 in	
1.8	Distance from Load backrest to center of rear axle	Х	720 mm	28 in	
1.9	Wheelbase	у	1245 mm	49 in	
	Weight				
2.1	Service weight		870 kg	1918 lb	
2.2	Weight on front axle (laden) / rear axle (laden)		709 kg / 1161 kg	1563 lb / 2560 lb	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		609 kg / 261 kg	1343 lb / 575 lb	
	Wheels				
3.1	Tires type		Polyurethane	Polyurethane	
3.3	Number of load wheels / Size of load wheels		2 / 125x50	2 / 125x50	
3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 125x50	1 / 125x50	
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2	
3.5.2	Number of drive wheels / Size of drive wheels		1/230x70	1/230x70	
3.6	Front wheel gauge	b10	517 mm	20 in	
3.7	Rear wheel gauge	b11	380 mm	15 in	
	Dimensions				
4.15	Fork height in low position	h13	85 mm	3 in	
4.19	Overall length	I1	1870 mm	74 in	
4.20	Length to face of forks	12	720 mm	28 in	
4.21	Overall width	b1	800 mm	31 in	
4.22	Forks section / width / length	s / e / l	60 mm / 180 mm / 1150 mm	2 in / 7 in / 45 in	
4.24	Fork carriage width	b3	680 mm	27 in	
4.31	Ground clearance below mast	m1	35 mm	1 in	
4.32	Ground clearance at centre of wheelbase	m2	20 mm	0.79 in	
4.35	Turning radius	Wa	1400 mm	55 in	
	Performances				
5.1	Travel speed (laden / unladen)		5.80 km/h / 6 km/h	4 mph / 4 mph	
5.2	Lifting speed (laden / unladen)		0.24 m/s / 0.14 m/s	0.79 ft/s / 0.46 ft/s	
5.3	Lowering speed (laden / unladen)		0.20 m/s / 0.30 m/s	0.66 ft/s / 0.98 ft/s	
5.8	Max Gradeability (laden / unladen)		8 % / 10 %	8 % / 10 %	
5.10	Service brake		Electro magnetic	Electro magnetic	
	Engine				
6.1	Drive motor rating S2 60 min		1.20 kW	1.20 kW	
6.2	Lift motor rating at S3 15%		3 kW	3 kW	
6.4	Battery voltage / capacity		24 V / 160 Ah	24 V / 160 Ah	
6.5	Battery weight (+/- 5%)		150 kg	331 lb	
	Miscellaneous		,		
8.1	Type of drive control		AC	AC	
8.4	Sound level at the driver's ear according to DIN 12 053		65 dB	65 dB	

ES 410 ET - Dimensional drawing





Characteristics of masts and residual capacities

Central Cylinder Duplex (CCD)		CCD 26	CCD 29	CCD 34
h1 - Mast lowered height	in (mm)	70.1 (1780)	76 (1930)	85.8 (2180)
h2 - Mast free lift	in (mm)	5.5 (140)	5.5 (140)	5.5 (140)
h3 - Mast lifting height	in (mm)	103.5 (2630)	115.4 (2930)	135 (3430)
h4 - Mast extended height	in (mm)	120.7 (3065)	132.5 (3365)	152.2 (3865)
Residual capacity at max height	lb (kg)	2205 (1000)	2205 (1000)	1984 (900)

Central Cylinder Simplex (CCS)		CCS 15	CCS 17
h1 - Mast lowered height	in (mm)	76 (1930)	85.8 (2180)
h2 - Mast free lift	in (mm)	59.1 (1500)	68.9 (1750)
h3 - Mast lifting height	in (mm)	59.1 (1500)	68.9 (1750)
h4 - Mast extended height	in (mm)	76 (1930)	85.8 (2180)
Residual capacity at max height	lb (kg)	2205 (1000)	2205 (1000)





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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