Technical sheet :



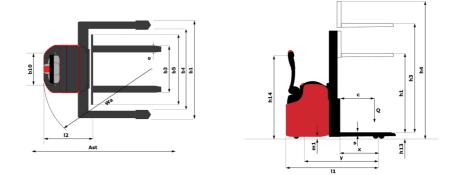




ES 410 ET Created on April 26, 2024 at 12:31:01 AM UT

			ES 410 ET CIEdleu UII A	p
	Technical characteristics		Metric	Imperial
1	Manufacturer		Manitou	Manitou
	Model Name		ES 410 ET	ES 410 ET
	Power source		Electrical	Electrical
	Operator type		Pedestrian	Pedestrian
	Max. capacity	Q	1000 kg	2205 lb
	Load center of gravity	С	600 mm	24 in
	Distance from Load backrest to center of rear axle	х	720 mm	28 in
	Wheelbase	у	1245 mm	49 in
	Weight			
	Service weight		870 kg	1918 lb
	Weight on front axle (laden) / rear axle (laden)		709 kg / 1161 kg	1563 lb / 2560 lb
	Weight on front axle (Unladen) / rear axle (Unladen)		609 kg / 261 kg	1343 lb / 575 lb
	Wheels			
	Tires type		Polyurethane	Polyurethane
	Number of load wheels / Size of load wheels		2 / 125x50	2 / 125x50
	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 125x50	1 / 125x50
	Number of front wheels / rear wheels		2/2	2 / 2
2	Number of drive wheels / Size of drive wheels		1/230x70	1/230x70
	Front wheel gauge	b10	517 mm	20 in
	Rear wheel gauge	b11	380 mm	15 in
	Dimensions			
	Fork height in low position	h13	85 mm	3 in
	Overall length	1	1870 mm	74 in
	Length to face of forks	12	720 mm	28 in
	Overall width	b1	800 mm	31 in
	Forks section / width / length	s / e / l	60 mm / 180 mm / 1150 mm	2 in / 7 in / 45 in
	Fork carriage width	b3	680 mm	27 in
	Ground clearance below mast	m1	35 mm	1 in
	Ground clearance at centre of wheelbase	m2	20 mm	0.79 in
	Turning radius	Wa	1400 mm	55 in
	Performances			
	Travel speed (laden / unladen)		5.80 km/h / 6 km/h	4 mph / 4 mph
	Lifting speed (laden / unladen)		0.24 m/s / 0.14 m/s	0.79 ft/s / 0.46 ft/s
	Lowering speed (laden / unladen)		0.20 m/s / 0.30 m/s	0.66 ft/s / 0.98 ft/s
	Max Gradeability (laden / unladen)		8 % / 10 %	8 % / 10 %
	Service brake		Electro magnetic	Electro magnetic
	Engine			
	Drive motor rating S2 60 min		1.20 kW	1.20 kW
	Lift motor rating at S3 15%		3 kW	3 kW
	Battery voltage / capacity		24 V / 160 Ah	24 V / 160 Ah
	Battery weight (+/- 5%)		150 kg	331 lb
	Miscellaneous			
	Type of drive control		AC	AC
	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)



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