Technical sheet :



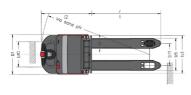


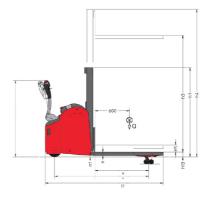


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Technical characteristics		Metric	Imperial
Manufacturer		Manitou	Manitou
Model Name		ES 410	ES 410
Power source		Electrical	Electrical
Operator type		Pedestrian	Pedestrian
Max. capacity	Q	1000 kg	2205 lb
Load center of gravity	C	600 mm	24 in
Distance from Load backrest to center of rear axle	х	723 mm	28 in
Wheelbase	у	1285 mm	51 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
Number of drive wheels / Size of drive wheels		1/230x75	1/230x75
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	11	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	1465 mm	58 in
Height tiller max.	h14	1050 mm	41 in
Performances			
Travel speed (laden / unladen)		6 km/h / 6 km/h	4 mph / 4 mph
Lifting speed (laden / unladen)		0.11 m/s / 0.16 m/s	0.36 ft/s / 0.52 ft/s
Lowering speed (laden / unladen)		0.14 m/s / 0.12 m/s	0.46 ft/s / 0.39 ft/s
Max Gradeability (laden / unladen)		8 % / 10 %	8 % / 10 %
Service brake		Electro magnetic	Electro magnetic
Engine		Liecuo magnetic	Liectio magnetic
		1 kW	1 kW
Drive motor rating S2 60 min			
Lift motor rating at S3 15%		2 kW	2 kW
Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B	DIN 43535-B
Battery voltage / capacity		24 V / 160 Ah	24 V / 160 Ah
Battery weight (+/- 5%)		143 kg	315 lb
Miscellaneous			
Type of drive control		AC	AC

ES 410 - Dimensional drawing





Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38
h1 - Mast lowered height	in (mm)	76.4 (1940)	86.2 (2190)	94.1 (2390)
h3 - Mast lifting height	in (mm)	115.7 (2940)	135.4 (3440)	151.2 (3840)
h4 - Mast extended height	in (mm)	132.5 (3365)	152.2 (3865)	167.9 (4265)
Residual capacity at max height	lb (kg)	2205 (1000)	1984 (900)	1653 (750)

Free Lift Duplex (FLD)		FLD 29	FLD 34
h1 - Mast lowered height	in (mm)	76.4 (1940)	86.2 (2190)
h2 - Mast free lift	in (mm)	59.4 (1510)	69.3 (1760)
h3 - Mast lifting height	in (mm)	115.6 (2935)	135.2 (3435)
h4 - Mast extended height	in (mm)	132.5 (3365)	152.2 (3865)
Residual capacity at max height	lb (kg)	2205 (1000)	1984 (900)

Free Lift Triplex (FLT)		FLT 42
h1 - Mast lowered height	in (mm)	77.4 (1965)
h2 - Mast free lift	in (mm)	57.9 (1470)
h3 - Mast lifting height	in (mm)	166.9 (4240)
h4 - Mast extended height	in (mm)	186.4 (4735)
Residual capacity at max height	lb (kg)	1213 (550)



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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