Technical sheet:

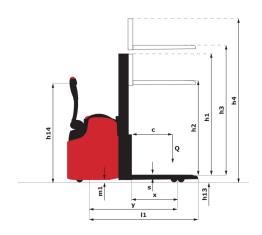
ES 410

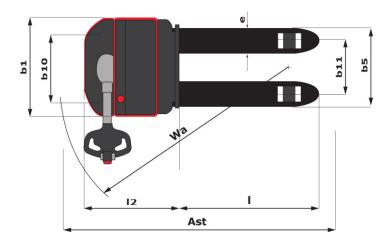




	Technical characteristics		Metric
	Manufacturer		Manitou
2	Model Name		ES 410
;	Power source		Battery
	Operator type		Pedestrian
	Max. capacity	Q	1000 kg
	Load centre of gravity	c	600 mm
	Distance from Load backrest to center of rear axle	x	723 mm
	Wheelbase	у	1285 mm
	Weight		
	Service weight		870 kg
	Weight on front axle (laden) / rear axle (laden)		709 kg / 1161 kg
	Weight on front axle (Unladen) / rear axle (Unladen)		609 kg / 261 kg
	Wheels		
	Tyres type		Polyurethane
2	Number of drive wheels - Size of drive wheels		1 x 230x75
	Number of load wheels - Size of load wheels		2 x 125x50
	Number of stabilizer wheels / Size of the stabilizer wheels		1 x 125x50
	Number of front wheels / rear wheels		2/2
	Front wheel gauge	b10	517 mm
	Rear wheel gauge	b11	380 mm
	Dimensions		
	Mast height lowered	h1	1930 mm
	Mast lifting height *	h3	2930 mm
	Mast height extended	h4	3365 mm
	Height tiller up max.	h14	1050 mm
5	Fork height in low position	h13	85 mm
,	Overall length	I1	1870 mm
)	Length to face of forks	12	720 mm
	Overall width	b1	800 mm
	Forks section / width / length	s / e / l	180 mm x 60 mm / 1150 mm
	Fork carriage width	b3	680 mm
	Ground clearance below mast	m1	35 mm
	Ground clearance at centre of wheelbase	m2	20 mm
	Aisle width for 1000 x 1200 pallet widthways	Ast	2200 mm
	Aisle width for 800 x 1200 pallet lengthways	Ast	2296 mm
	Turning radius	Wa	1465 mm
	Performances		
	Travel speed (laden / unladen)		6 km/h / 6 km/h
	Lifting speed (laden / unladen)		0.11 m/s / 0.16 m/s
	Lowering speed (laden / unladen)		0.14 m/s / 0.12 m/s
	Gradeability (laden / unladen)		8 % / 10 %
)	Service brake		Electro magnetic
	Engine		Lieut o magnetic
	Drive motor rating S2 60 min		1 kW
	Lift motor rating at S3 15%		2 kW
	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B
	Battery / Batteries capacity		24 V - 160 Ah
	Battery / Batteries Capacity Battery weight (+/- 5%)		24 V - 160 ATT
	Miscellaneous		145 Kg
			AC
	Type of drive control		65 dB(A)

Dimensional drawing





Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 29	FVD 34	FVD 38
h1 - Height mast lowered *	mm	1940	2129000	2390
h3 - Lifting Height	mm	2940	3440000	3840
h4 - Height mast extended *	mm	3365	3865000	4265
Residual capacity without attachment (Industrial load chart)	kg	1000	850	850

Free Lift Duplex	FLD 29	FLD 34	
h1 - Height mast lowered *	mm	1940	2190
h2 - Free lift	mm	1510	1760
h3 - Lifting Height	mm	2935	3435
h4 - Height mast extended *	mm	3653	3865
Residual capacity without attachment (Industrial load chart)	kg	1000	850

Free Lift Triplex	FLT 42	
h1 - Height mast lowered *	mm	1960
h2 - Free lift	mm	1470
h3 - Lifting Height	mm	4240
h4 - Height mast extended *	mm	4730
Residual capacity without attachment (Industrial load chart)	kg	550





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