

Technical sheet :

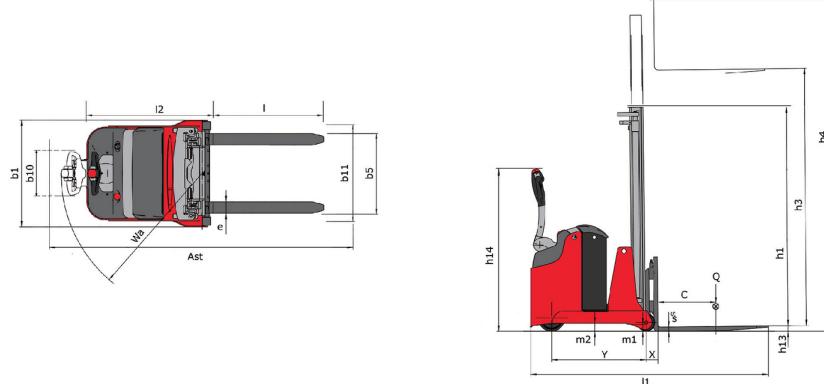
# ES-C 510



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Technical characteristics		Metric	
1.1	Manufacturer		Manitou
1.2	Model Name		ES-C 510
1.3	Power source		Electrical - Lead
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	1000 kg
1.6	Load center of gravity	c	500 mm
1.8	Distance from Load backrest to center of rear axle	x	101 mm
1.9	Wheelbase	y	1047 mm
Weight		Weight	
2.1	Service weight		1400 kg
Wheels		Wheels	
3.1	Tires type		Polyurethane cushion
3.3	Number of load wheels / Size of load wheels		2 / 150x70
3.5	Number of front wheels / rear wheels		1 / 2
3.5.2	Number of drive wheels / Size of drive wheels		1/230x70
3.7	Rear wheel gauge	b11	826 mm
Dimensions		Dimensions	
4.19	Overall length	l1	2285 mm
4.20	Length to face of forks	l2	1335 mm
4.21	Overall width	b1	923 mm
4.22	Forks section / width / length	s / e / l	30 mm / 90 mm / 950 mm
4.23	Fork carriage ISO 2328 (class/form) A/B	b3	2B
4.24	Fork carriage width	m1	750 mm
4.31	Ground clearance below mast	m2	60 mm
4.32	Ground clearance at centre of wheelbase	Ast	69 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2825 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Wa	2935 mm
4.35	Turning radius	h14 / h14	1360 mm
4.9	Height tiller min. / max.		830 mm / 1385 mm
Performances		Performances	
5.1	Travel speed (laden / unladen)		6 km/h / 6 km/h
5.2	Lifting speed (laden / unladen)		0.18 m/s / 0.30 m/s
5.3	Lowering speed (laden / unladen)		0.27 m/s / 0.22 m/s
5.8	Max Gradeability (laden / unladen)		7 % / 10 %
5.10	Service brake		Electro magnetic
Engine		Engine	
6.1	Drive motor rating S2 60 min		1.50 kW
6.2	Lift motor rating at S3 15%		3 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43535-B
6.4	Battery voltage / capacity		24 V / 180 Ah
6.5	Battery weight (+/- 5%)		175 kg
Miscellaneous		Miscellaneous	
8.1	Type of drive control		AC
8.4	Sound level at the driver's ear according to DIN 12 053		65 dB

## ES-C 510 - Dimensional drawing



## Characteristics of masts and residual capacities

Central Cylinder Simplex (CCS)	CCS 15	CCS 17
α - Mast/fork carriage tilt, forward °	4	4
β - Mast/fork carriage tilt, backward °	6	6
h1 - Mast lowered height mm	1931	2181
h2 - Mast free lift mm	1420	1670
h3 - Mast lifting height mm	1420	1670
h4 - Mast extended height mm	2070	2320
Residual capacity at max height kg	1000	1000

Full Visibility Duplex (FVD)	FVD 29	FVD 34	FVD 38
α - Mast/fork carriage tilt, forward °	4	4	4
β - Mast/fork carriage tilt, backward °	6	6	6
h1 - Mast lowered height mm	1931	2181	2381
h3 - Mast lifting height mm	2850	3350	3750
h4 - Mast extended height mm	3500	4000	4400
Residual capacity at max height kg	1000	1000	900

Free Lift Duplex (FLD)	FLD 29	FLD 34
α - Mast/fork carriage tilt, forward °	4	4
β - Mast/fork carriage tilt, backward °	6	6
h1 - Mast lowered height mm	1931	2181
h2 - Mast free lift mm	1420	1670
h3 - Mast lifting height mm	2850	3355
h4 - Mast extended height mm	3500	4000
Residual capacity at max height kg	1000	1000

Free Lift Triplex (FLT)	FLT 42
α - Mast/fork carriage tilt, forward °	4
β - Mast/fork carriage tilt, backward °	6
h1 - Mast lowered height mm	1956
h2 - Mast free lift mm	1380
h3 - Mast lifting height mm	4160
h4 - Mast extended height mm	4810
Residual capacity at max height kg	800



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