Technical sheet :



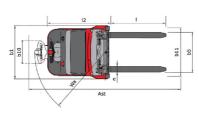


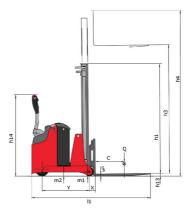


Technical characteristics     1.1   Manufacturer     1.2   Model Name     1.3   Power source     1.4   Operator type     1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     Weight   Weight     2.1   Service weight     Wheels   Size of load wheels     3.1   Tires type     3.3   Number of load wheels / Size of load wheels     3.5   Number of front wheels / rear wheels     3.5.2   Number of drive wheels / Size of drive wheels     3.7   Rear wheel gauge     Omensions   Ouerall length     4.19   Overall length     4.20   Length to face of forks     4.21   Overall side Width / length     4.22   Fork carriage ISO 2328 (class/form) A/B     4.23   Fork carriage width     4.31   Ground clearance below mast     4.32   Ground clearance to center of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34 </th	
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1.5   Max. capacity     1.6   Load center of gravity     1.8   Distance from Load backrest to center of rear axle     1.9   Wheelbase     Weight     Weight     Wheelbase     Weight     Wheelbase     Start of load wheels / Size of load wheels     3.5     Number of front wheels / Fare wheels     3.5     Dimensions     Dimensions     Dimensions     Olimensions     A20     Length to face of forks     4.21     Overail length     4.22      Fork carria	
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3.7   Rear wheel gauge     Dimensions     4.19   Overall length     4.20   Length to face of forks     4.21   Overall width     4.22   Forks section / width / length     4.23   Fork carriage ISO 2328 (class/form) A/B     4.24   Fork carriage width     4.31   Ground clearance below mast     4.32   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle width for 800 x 1200 pallet lengthways     4.35   Tuming radius     4.9   Height tiller min. / max.     Performances   5.1	
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4.23   Fork carriage ISO 2328 (class/form) A/B     4.24   Fork carriage width     4.31   Ground clearance below mast     4.32   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle width for 800 x 1200 pallet lengthways     4.35   Turning radius     4.9   Height tiller min. / max.     Performances     5.1   Travel speed (laden / unladen)	
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4.32   Ground clearance at centre of wheelbase     4.33   Aisle Width for pallets 1000 x 1200 crossways     4.34   Aisle width for 800 x 1200 pallet lengthways     4.35   Tuming radius     4.9   Height tiller min. / max.     Performances     5.1   Travel speed (laden / unladen)	
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4.35 Tuming radius   4.9 Height tiller min. / max.   Performances   5.1 Travel speed (laden / unladen)	
4.9 Height tiller min. / max.   Performances   5.1 Travel speed (laden / unladen)	
Performances       5.1     Travel speed (laden / unladen)	
5.1 Travel speed (laden / unladen)	
5.2 Lifting speed (laden / unladen)	
5.3 Lowering speed (laden / unladen)	
5.8 Max Gradeability (laden / unladen)	
5.10 Service brake	
Engine	
6.1 Drive motor rating S2 60 min	
6.2 Lift motor rating at S3 15%	
6.3 Battery according to DIN 43531/35/36 A, B, C	
6.4 Battery voltage / capacity	
6.5 Battery weight (+/- 5%)	
Miscellaneous	
8.1 Type of drive control   8.4 Sound level at the driver's ear according to DIN 12 053	

ES-C 51	• Created on August 12, 2025 at 6:07 PM UTC
	Metric
	Manitou
	ES-C 510
	Electrical
	Pedestrian
Q	1000 kg
С	500 mm
x	101 mm
у	1047 mm
	1400 kg
	1400 kg
	Polyurethane
	2 / 150x70
	1 / 2
	1/230x70
b11	826 mm
1	2285 mm
12	1335 mm
b1	923 mm
s / e / l	30 mm / 90 mm / 950 mm
	2B
b3	750 mm
m1	60 mm
m2	69 mm
Ast	2825 mm 2935 mm
Ast Wa	2935 mm 1360 mm
14 / h14	830 mm / 1385 mm
111471114	030 mm / 1303 mm
	6 km/h / 6 km/h
	0.18 m/s / 0.30 m/s
	0.27 m/s / 0.22 m/s
	7 % / 10 %
	Electro magnetic
	1.50 kW
	3 kW
	DIN 43535-B
	24 V / 180 Ah
	175 kg
	AC
	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	٥	4	4
$\beta$ - Mast/fork carriage tilt, backward	٥	б	б
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	۰	4	4	4
$\beta$ - Mast/fork carriage tilt, backward	٥	б	б	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
a - Mast/fork carriage tilt, forward	۰	4	4
$\beta$ - Mast/fork carriage tilt, backward	٥	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	۰	4
β - Mast/fork carriage tilt, backward	۰	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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