Technical sheet:

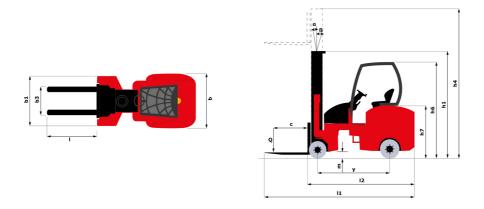
## EMA II 13





Technical characteristics		Metric		
1.1 Manufacturer		Manitou		
1.2 Model Name		EMA II 13		
1.3 Power source		Electrical		
1.4 Operator type		Seated		
1.5 Max. capacity	Q	1300 kg		
1.6 Load center of gravity	С	500 mm		
1.8 Load distance, centre of drive axle to fork	X	278 mm		
1.9 Wheelbase	у	1855 mm		
Weight				
2.1 Service weight		5900 kg		
2.2 Weight on front axle (laden) / rear axle (laden)		3350 kg / 3850 kg		
2.3 Weight on front axle (Unladen) / rear axle (Unladen)		1900 kg / 4000 kg		
Wheels		3 3		
3.1 Tires type		Solid tires		
3.2 Dimensions of front wheels		412 x 127 mm		
3.3 Dimensions of rear wheels		457 x 152 mm		
3.5 Number of front wheels / rear wheels		2 / 2		
3.5.2 Number of drive wheels		2		
3.6 Front wheel gauge	b10	825 mm		
3.7 Rear wheel gauge	b11	1060 mm		
Dimensions				
4.7 Height of overhead guard (cabin)	h6	2260 mm		
4.8 Seat height/stand height	h7	1200 mm		
4.19 Overall length	 I1	3890 mm		
4.20 Length to face of forks	12	2740 mm		
4.21 Overall width	b1	1060 mm		
4.22 Forks section / width / length	s / e / l	40 mm x 100 mm x 1150 mm		
4.23 Fork carriage ISO 2328 (class/form) A/B	0,0,1	2		
4.24 Fork carriage width	b3	860 mm		
4.31 Ground clearance below mast	m1	50 mm		
4.32 Ground clearance at centre of wheelbase	m2	130 mm		
4.33 Aisle Width for pallets 1000 x 1200 crossways	Ast	1700 mm		
4.34 Aisle width for 800 x 1200 pallet lengthways	Ast	1900 mm		
Performances	7.00	.500		
5.1 Travel speed (laden / unladen)		9 km/h-9.50 km/h		
5.2 Lifting speed (laden / unladen)		0.35 m/s-0.45 m/s		
5.3 Lowering speed (laden / unladen)		0.40 m/s-0.35 m/s		
5.7 Gradeability (laden / unladen)		8 % / 10.50 %		
5.10 Service brake		Hydraulic		
Engine		- Tydiadile		
6.1 Drive motor rating S2 60 min		10 kW		
6.2 Lift motor rating at S3 15%		9 kW		
6.3 Battery according to DIN 43531/35/36 A, B, C		DIN 43595		
6.4 Battery voltage / capacity		48 V / 620 Ah		
6.5 Battery weight (+/- 5%)		1030 kg		
Miscellaneous				
8.1 Type of drive control		Mosfet AC speed controller		
8.2 Working hydraulic pressure for attachments		200 bar		
8.3 Oil flow rate for attachments		25 I/min		
8.4 Measured/quaranteed mean noise level at the ear of the operator		< 73 dB		
8.4 Sound level at the driver's ear according to DIN 12 053		73 dB		
O.4 Southu level at the univers can according to DNV 12 000		73 UD		

EMA II 13 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 42	FLT 50	FLT 56	FLT 60	FLT 66	FLT 76
α - Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	۰	3	3	3	3	3	3
h1 - Mast lowered height	mm	2360	2630	2810	2960	3210	3650
h2 - Mast free lift	mm	1400	1750	193	2080	2330	2670
h3 - Mast lifting height	mm	4200	5010	5550	6000	6600	7620
h4 - Mast extended height	mm	5030	5910	6450	6900	7500	8520
Residual capacity with integrated side shift at max heigth	kg	1300	1200	1100	1000	900	750





## **Head Office**

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