Technical sheet:

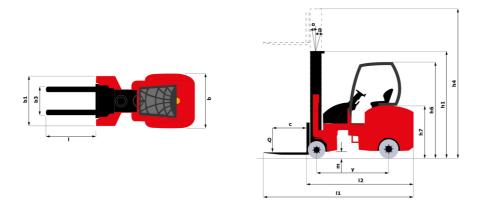
EMA II 13





	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		EMA II 13
1.3	Power source		Electrical
1.4	Operator type		Seated
	•	0	
1.5	Max. capacity	•	1300 kg
1.6	Load center of gravity	C	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		
3.1	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
4.20	Overall width	b1	1060 mm
4.21	Forks section / width / length	s / e / l	40 mm x 100 mm x 1150 mm
	-	\$ / e / I	40 mm x 100 mm x 1150 mm
4.23	Fork carriage ISO 2328 (class/form) A/B	LO.	
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		
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		
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
	Working hydraulic pressure for attachments		200 bar
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8.2	Oil flow rate for attachments		25 I/min
8.2 8.3 8.4	Oil flow rate for attachments Measured/guaranteed mean noise level at the ear of the operator		25 l/min < 73 dB

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 °		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





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