Technical sheet:

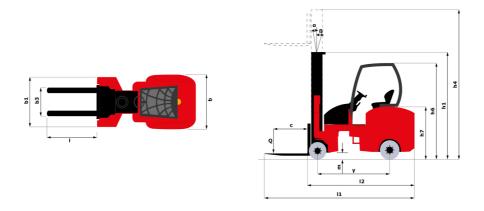
## EMA II 13





		EMAII 13 (I	EMAIL 13 Greated Oil May 3, 2024 at 4.02.20 1 W OTC		
	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	c	500 mm		
1.8	Load distance, centre of drive axle to fork	X	278 mm		
1.9	Wheelbase	y	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 (Indeen) / rear axle (Unladen)		1900 kg / 4000 kg		
2.3	Wheels		1500 kg / 4000 kg		
3.1	Tires type		Solid tires		
3.1	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	140	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	l1	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		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				
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		
8.2	Working hydraulic pressure for attachments		200 bar		
8.3	Oil flow rate for attachments		25 I/min		
8.4			< 73 dB		
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 73 dB		
0.4	Sound level at the driver's ear according to DIN 12 053		/3 UB		

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	
Mast/fork carriage tilt, forward		1	1	1	1	1	1
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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