

Technical sheet :

# EMA II 17

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 **MANITOU**  
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	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		EMA II 17	EMA II 17
1.3	Power source		Electrical	Electrical
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	1700 kg	3748 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	278 mm	11 in
1.9	Wheelbase	y	1745 mm	69 in
	Weight			
2.1	Service weight		6000 kg	13228 lb
2.2	Weight on front axle (laden) / rear axle (laden)		4250 kg / 3250 kg	9370 lb / 7165 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2000 kg / 4000 kg	4409 lb / 8818 lb
	Wheels			
3.1	Tires type		Solid tires	Solid tires
3.2	Dimensions of front wheels		412 x 152	412 x 152
3.3	Dimensions of rear wheels		457 x 152	457 x 152
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	960 mm	38 in
3.7	Rear wheel gauge	b11	1080 mm	43 in
	Dimensions			
4.7	Height of overhead guard (cabin)	h6	2260 mm	89 in
4.8	Seat height/stand height	h7	1200 mm	47 in
4.19	Overall length	l1	3710 mm	146 in
4.20	Length to face of forks	l2	2560 mm	101 in
4.21	Overall width	b1	1080 mm	43 in
4.22	Forks section / width / length	s / e / l	40 mm x 100 mm x 1150 mm	2 in x 4 in x 45 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2	2
4.24	Fork carriage width	b3	860 mm	34 in
4.31	Ground clearance below mast	m1	50 mm	2 in
4.32	Ground clearance at centre of wheelbase	m2	130 mm	5 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	1800 mm	71 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2000 mm	79 in
	Performances			
5.1	Travel speed (laden / unladen)		9 km/h-9.50 km/h	6 mph-6 mph
5.2	Lifting speed (laden / unladen)		0.35 m/s-0.45 m/s	1 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		0.40 m/s-0.36 m/s	1 ft/s-1 ft/s
5.7	Gradeability (laden / unladen)		8 % / 10.50 %	8 % / 10.50 %
5.10	Service brake		Hydraulic	Hydraulic
	Engine			
6.1	Drive motor rating S2 60 min		10 kW	10 kW
6.2	Lift motor rating at S3 15%		9 kW	9 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43595	DIN 43595
6.4	Battery voltage / capacity		48 V / 620 Ah	48 V / 620 Ah
6.5	Battery weight (+/- 5%)		1030 kg	2271 lb
	Miscellaneous			
8.1	Type of drive control		Mosfet AC speed controller	Mosfet AC speed controller
8.2	Working hydraulic pressure for attachments		200 bar	2901 PSI
8.3	Oil flow rate for attachments		25 l/min	7 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 73 dB	< 73 dB
8.4	Sound level at the driver's ear according to DIN 12 053		73 dB	73 dB

## EMA II 17 - Dimensional drawing



Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 39	FLT 42	FLT 46	FLT 48	FLT 50	FLT 52	FLT 56	FLT 60	FLT 66	FLT 72	FLT 76
Mast/fork carriage tilt, forward	°	1	1	1	1	1	1	1	1	1	1	1
Mast/fork carriage tilt, backward	°	3	3	3	3	3	3	3	3	3	3	3
h1 - Mast lowered height	in (mm)	87 (2210)	90.6 (2300)	96.1 (2440)	98.4 (2500)	101.2 (2570)	103.9 (2640)	108.3 (2750)	114.2 (2900)	124 (3150)	133.9 (3400)	141.3 (3590)
h2 - Mast free lift	in (mm)	54.7 (1390)	58.3 (1480)	63.8 (1620)	66.1 (1680)	68.9 (1750)	71.7 (1820)	76 (1930)	81.9 (2080)	91.7.3 (23300)	101.6 (2580)	109.1 (2770)
h3 - Mast lifting height	in (mm)	154.7 (3930)	165.4 (4200)	181.9 (4620)	189 (4800)	197.2 (5010)	205.5 (5220)	218.5 (5550)	236.2 (6000)	259.8 (6600)	283.5 (7200)	300 (7620)
h4 - Mast extended height	in (mm)	187.4 (4760)	198 (5030)	214.6 (5450)	221.7 (5630)	229.9 (5840)	238.2 (6050)	251.2 (6380)	268.9 (6830)	292.5 (7430)	316.1 (8030)	332.7 (8450)
Residual capacity with integrated side shift at max heigh	lb (kg)	2756 (1250)	2866 (1300)	2866 (1300)	2646 (1200)	2646 (1200)	2646 (1200)	2646 (1200)	2425 (1100)	2094 (950)	1984 (900)	1984 (900)



**Head Office**

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

[www.manitou.com](http://www.manitou.com)



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