

Technical sheet :

EMA II 17



 **MANITOU**
HANDLING YOUR WORLD

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)	917.3 (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 heighth	lb (kg)	2756 (1250)	2866 (1300)	2866 (1300)	2646 (1200)	2646 (1200)	2646 (1200)	2646 (1200)	2425 (1100)	2094 (950)	1984 (900)	1984 (900)



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