Technical sheet :

## EMA II 18 HL-1

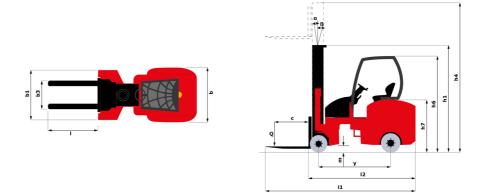




## EMA II 18 HL-1 Created on April 19, 2024 at 6:20:38 AM UTC

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		EMA II 18 HL-1	EMA II 18 HL-1
1.3	Power source		Electrical	Electrical
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	1750 kg	3858 lb
1.6	Load center of gravity	С	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	308 mm	12 in
1.9	Wheelbase	v	1745 mm	69 in
	Weight			
2.1	Service weight		6900 kg	15212 lb
2.2	Weight on front axle (laden) / rear axle (laden)		4200 kg / 4500 kg	9259 lb / 9921 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2200 kg / 4700 kg	4850 lb / 10362 lb
	Wheels		2200 kg / 1700 kg	
3.1	Tires type		Solid tires	Solid tires
3.2	Dimensions of front wheels		412 x 178	412 x 178
9.2 9.3	Dimensions of rear wheels		412 x 178 457 x 178	412 x 178 457 x 178
.5	Number of front wheels / rear wheels		457 x 178 2 / 2	43/ x 1/8 2 / 2
5.2	Number of drive wheels		2/2	272
		L10		
8.6	Front wheel gauge	b10	1110 mm	44 in
8.7	Rear wheel gauge	b11	1250 mm	49 in
	Dimensions			
.7	Height of overhead guard (cabin)	h6	2260 mm	89 in
.8	Seat height/stand height	h7	1200 mm	47 in
.19	Overall length	11	3740 mm	147 in
.20	Length to face of forks	12	2590 mm	102 in
.21	Overall width	b1	1250 mm	49 in
.22	Forks section / width / length	s / e / l	40 mm x 125 mm x 1150 mm	2 in x 5 in x 45 in
23	Fork carriage ISO 2328 (class/form) A/B		2	2
.24	Fork carriage width	b3	860 mm	34 in
.31	Ground clearance below mast	m1	50 mm	2 in
32	Ground clearance at centre of wheelbase	m2	130 mm	5 in
33	Aisle Width for pallets 1000 x 1200 crossways	Ast	1950 mm	77 in
34	Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm	87 in
	Performances			
.1	Travel speed (laden / unladen)		9 km/h-9.50 km/h	6 mph-6 mph
.2	Lifting speed (laden / unladen)		0.35 m/s-0.45 m/s	1 ft/s-1 ft/s
.3	Lowering speed (laden / unladen)		0.40 m/s-0.36 m/s	1 ft/s-1 ft/s
.7	Gradeability (laden / unladen)		8 % / 10.50 %	8 % / 10.50 %
10	Service brake		Hydraulic	Hydraulic
	Engine			
.1	Drive motor rating S2 60 min		10 kW	10 kW
i.2	Lift motor rating at S3 15%		9 kW	9 kW
i.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43595	DIN 43595
.4	Battery voltage / capacity		48 V / 775 Ah	48 V / 775 Ah
.5	Battery weight (+/- 5%)		1435 kg	3164 lb
	Miscellaneous			
.1	Type of drive control		Mosfet AC speed controller	Mosfet AC speed controller
.2	Working hydraulic pressure for attachments		200 bar	2901 PSI
.3	Oil flow rate for attachments		25 I/min	7 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 73 dB	< 73 dB
B.4	Sound level at the driver's ear according to DIN 12 053		73 dB	73 dB

EMA II 18 HL-1 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)	FLT 80	FLT 84	FLT 86	FLT 90	FLT 95	FLT 100	FLT 102	FLT 106	
Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1
Mast/fork carriage tilt, backward	۰	4	4	4	4	4	4	4	4
h1 - Mast lowered height	in (mm)	146.5 (3720)	153.5 (3900)	158.3 (4020)	163.4 (4150)	177.2 (4500)	180.7 (4590)	184.6 (4690)	189.8 (4820)
h2 - Mast free lift	in (mm)	114.2 (2900)	121.3 (3080)	126 (3200)	131.1 (3330)	143.7 (3650)	148.4 (3770)	152.4 (3870)	157.5 (4000)
h3 - Mast lifting height	in (mm)	315.4 (8010)	330.7 (8400)	339 (8610)	354.3 (9000)	374 (9500)	394.5 (10020)	401.6 (10200)	415.7 (10560)
h4 - Mast extended height	in (mm)	348 (8840)	363.4 (9230)	371.7 (9440)	387 (9830)	412.4 (10475)	427.2 (10850)	440 (11175)	454.1 (11535)
Residual capacity with integrated side shift at max heigth	lb (kg)	2756 (1250)	2535 (1150)	2535 (1150)	2205 (1000)	2205 (1000)	1653 (750)	1653 (750)	1433 (650)



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