

Technical sheet :

EMA II 18 HL-1



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		EMA II 18 HL-1
1.3	Power source		Electrical
1.4	Operator type		Seated
1.5	Max. capacity	Q	3858 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	12 in
1.9	Wheelbase	y	69 in
	Weight		
2.1	Service weight		15212 lb
2.2	Weight on front axle (laden) / rear axle (laden)		9259 lb / 9921 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		4850 lb / 10362 lb
	Wheels		
3.1	Tires type		Solid tires
3.2	Dimensions of front wheels		412 x 178
3.3	Dimensions of rear wheels		457 x 178
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	44 in
3.7	Rear wheel gauge	b11	49 in
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	89 in
4.8	Seat height/stand height	h7	47 in
4.19	Overall length	l1	147 in
4.20	Length to face of forks	l2	102 in
4.21	Overall width	b1	49 in
4.22	Forks section / width / length	s / e / l	2 in x 5 in x 45 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2
4.24	Fork carriage width	b3	34 in
4.31	Ground clearance below mast	m1	2 in
4.32	Ground clearance at centre of wheelbase	m2	5 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	77 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	87 in
	Performances		
5.1	Travel speed (laden / unladen)		6 mph-6 mph
5.2	Lifting speed (laden / unladen)		1 ft/s-1 ft/s
5.3	Lowering speed (laden / unladen)		1 ft/s-1 ft/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 / 775 Ah
6.5	Battery weight (+/- 5%)		3164 lb
	Miscellaneous		
8.1	Type of drive control		Mosfet AC speed controller
8.2	Working hydraulic pressure for attachments		2901 PSI
8.3	Oil flow rate for attachments		7 US gpm
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 73 dB
8.4	Sound level at the driver's ear according to DIN 12 053		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
α - Mast/fork carriage tilt, forward	°	1	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	°	4	4	4	4	4	4	4	4
h1 - Mast lowered height	in	146.5	153.5	158.3	163.4	177.2	180.7	184.6	189.8
h2 - Mast free lift	in	114.2	121.3	126	131.1	143.7	148.4	152.4	157.5
h3 - Mast lifting height	in	315.4	330.7	339	354.3	374	394.5	401.6	415.7
h4 - Mast extended height	in	348	363.4	371.7	387	412.4	427.2	440	454.1
Residual capacity with integrated side shift at max height	lb	2756	2535	2535	2205	2205	1653	1653	1433



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