Technical sheet :

EMA II 18 HL-2

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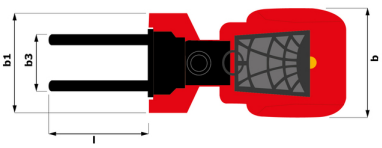
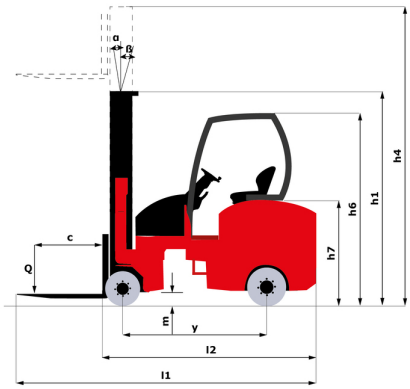
	Technical characteristics		Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		EMA II 18 HL-2	EMA II 18 HL-2
1.3	Power source		Electrical	Electrical
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	1750 kg	3858 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	308 mm	12 in
1.9	Wheelbase	y	1745 mm	69 in
	Weight			
2.1	Service weight		8700 kg	19180 lb
2.2	Weight on front axle (laden) / rear axle (laden)		6330 kg / 4080 kg	13955 lb / 8995 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3480 kg / 5220 kg	7672 lb / 11508 lb
	Wheels			
3.1	Tires type		Solid tires	Solid tires
3.2	Dimensions of front wheels		412 x 178	412 x 178
3.3	Dimensions of rear wheels		457 x 178	457 x 178
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	1110 mm	44 in
3.7	Rear wheel gauge	b11	1350 mm	53 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	3740 mm	147 in
4.20	Length to face of forks	l2	2590 mm	102 in
4.21	Overall width	b1	1350 mm	53 in
4.22	Forks section / width / length	s / e / l	40 mm x 125 mm x 1150 mm	2 in x 5 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	2000 mm	79 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm	87 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 / 930 Ah	48 V / 930 Ah
6.5	Battery weight (+/- 5%)		1300 kg	2866 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 18 HL-2 - Dimensional drawing





Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 80	FLT 84	FLT 90	FLT 95	FLT 100	FLT 102	FLT 110	FLT 120	FLT 125	FLT 127
Mast/fork carriage tilt, forward	°	1	1	1	1	1	1	1	1	1	1
Mast/fork carriage tilt, backward	°	4	4	4	4	4	4	4	4	4	4
h1 - Mast lowered height	in (mm)	146.5 (3720)	153.5 (3900)	163.4 (4150)	168.1 (4270)	180.7 (4590)	184.6 (4690)	196.9 (5000)	210.2 (5340)	218.5 (5550)	219.3 (5570)
h2 - Mast free lift	in (mm)	114.2 (2900)	121.3 (3080)	131.1 (3330)	143.7 (3650)	148.4 (3770)	152.4 (3870)	164.6 (4180)	178 (4520)	184.3 (4680)	187 (4750)
h3 - Mast lifting height	in (mm)	315.4 (8010)	330.7 (8400)	354.3 (9000)	374 (9500)	394.5 (10020)	401.6 (10200)	433.5 (11010)	472.4 (12000)	492.5 (12510)	500.8 (12720)
h4 - Mast extended height	in (mm)	348 (8840)	363.4 (9230)	387 (9830)	407.5 (10350)	427.2 (10850)	440 (11175)	471.9 (11985)	512 (13005)	530.9 (13485)	539.2 (13695)
Residual capacity with integrated side shift at max heigth	lb (kg)	2756 (1250)	2756 (1250)	2756 (1250)	2425 (1100)	2425 (1100)	2205 (1000)	1874 (850)	1653 (750)	1543 (700)	1102 (500)

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