Technical sheet :

## EMA II 18 HL-1





EMA II 18 HL-1	Created on	May 2,	2024 at	t 3:27:01	AM UTC
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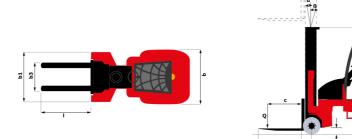
Metric Manitou EMA II 18 HL-1 Electrical Seated 1750 kg

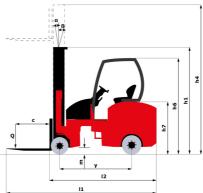
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	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	Q
1.6	Load center of gravity	С
1.8	Load distance, centre of drive axle to fork	x
1.9	Wheelbase	у
	Weight	
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (laden)	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	
	Wheels	
3.1	Tires type	
3.2	Dimensions of front wheels	
3.3	Dimensions of rear wheels	
3.5	Number of front wheels / rear wheels	
3.5.2	Number of drive wheels	
3.6	Front wheel gauge	b10
3.7	Rear wheel gauge	b11
	Dimensions	
4.7	Height of overhead guard (cabin)	h6
4.8	Seat height/stand height	h7
4.19	Overall length	1
4.20	Length to face of forks	12
4.21	Overall width	b1
4.22	Forks section / width / length	s / e / l
4.23	Fork carriage ISO 2328 (class/form) A/B	
4.24	Fork carriage width	b3
4.31	Ground clearance below mast	m1
4.32	Ground clearance at centre of wheelbase	m2
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast
	Performances	
5.1	Travel speed (laden / unladen)	
5.2	Lifting speed (laden / unladen)	
5.3	Lowering speed (laden / unladen)	
5.7	Gradeability (laden / unladen)	
5.10	Service brake	
	Engine	
6.1	Drive motor rating S2 60 min	
6.2	Lift motor rating at S3 15%	
6.3	Battery according to DIN 43531/35/36 A, B, C	
6.4	Battery voltage / capacity	
6.5	Battery weight (+/- 5%)	
	Miscellaneous	
8.1	Type of drive control	
8.2	Working hydraulic pressure for attachments	
8.3	Oil flow rate for attachments	
8.4	Measured/guaranteed mean noise level at the ear of the operator	
8.4	Sound level at the driver's ear according to DIN 12 053	

	1750 Kg					
	500 mm					
	308 mm					
	1745 mm					
	6900 kg					
	4200 kg / 4500 kg					
	2200 kg / 4700 kg					
	Solid tires					
	412 x 178					
	457 x 178					
	2/2					
	2					
0	1110 mm					
1	1250 mm					
5	2260 mm					
7	1200 mm					
	3740 mm					
2	2590 mm					
1	1250 mm					
e/1	40 mm x 125 mm x 1150 mm					
	2					
3	860 mm					
1	50 mm					
2	130 mm					
st	1950 mm					
st	2200 mm					
	9 km/h-9.50 km/h					
	0.35 m/s-0.45 m/s					
	0.40 m/s-0.36 m/s					
	8 % / 10.50 %					
	Hydraulic					
	10 kW					
	9 kW					
	DIN 43595					
	48 V / 775 Ah					
	1435 kg					
	Mosfet AC speed controller					
	200 bar					
	25 l/min					
	< 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	٥	4	4	4	4	4	4	4	4
h1 - Mast lowered height	mm	3720	3900	4020	4150	4500	4590	4690	4820
h2 - Mast free lift	mm	2900	3080	3200	3330	3650	3770	3870	4000
h3 - Mast lifting height	mm	8010	8400	8610	9000	9500	10020	10200	10560
h4 - Mast extended height	mm	8840	9230	9440	9830	10475	10850	11175	11535
Residual capacity with integrated side shift at max heigth	kg	1250	1150	1150	1000	1000	750	750	650



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