Technical sheet :

EMA II 18 HL-1

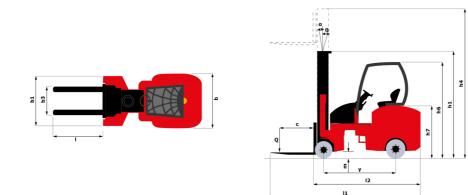




	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	Q
1.6	Load center of gravity	С
1.8	Load distance, centre of drive axle to fork	x
1.9	Wheelbase	У
	Weight	
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (laden)	
2.3	Weight 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
4.04	Performances	Ast
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	
5.10	Engine	
6.1		
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%)	
0.1	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	

EMA II 18 HL-	■ Created on June 2, 2025 at 8:36 AM UTC				
	Metric				
	Manitou				
	EMA II 18 HL-1				
	Electrical				
	Seated				
Q	1750 kg				
С	500 mm				
x	308 mm				
у	1745 mm				
	6900 kg				
	4200 kg / 4500 kg				
	2200 kg / 4700 kg				
	Solid tires				
	412 x 178				
	457 x 178				
	2 / 2				
	2				
b10	1110 mm				
b11	1250 mm				
h6	2260 mm				
h7	1200 mm				
11	3740 mm				
12	2590 mm				
b1	1250 mm				
s / e / l	40 mm x 125 mm x 1150 mm				
	2				
b3	860 mm				
m1	50 mm				
m2	130 mm				
Ast	1950 mm				
Ast	2200 mm				
	0. km /h 0. 50. km /h				
	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				
	injululio				
	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
a - Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1
β - 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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