Technical sheet :

## EMA II 18 HL-2



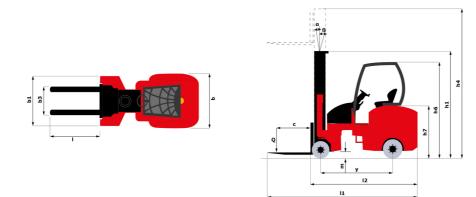


	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	Q
1.6	Load center of gravity	c
1.8	Load distance, centre of drive axle to fork	x
1.9	Wheelbase	y
	Weight	,
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (laden)	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	
2.0	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 frive wheels	
3.5.2		b10
	Front wheel gauge	
3.7	Rear wheel gauge	b11
47	Dimensions	h.c.
4.7	Height of overhead guard (cabin)	h6
4.8	Seat height/stand height	h7
4.19	Overall length	11
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	

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1 18 HL-2	Created on June 17, 2025 at 8:23 AM UTC							
	Metric Manitou EMA II 18 HL-2							
	Electrical							
	Seated							
Q	1750 kg							
С	500 mm							
х	308 mm							
у	1745 mm							
	8700 kg							
	6330 kg / 4080 kg							
	3480 kg / 5220 kg							
	Solid tires							
	412 x 178							
	457 x 178							
	2/2							
1.4.0	2							
b10	1110 mm							
b11	1350 mm							
h6	2260 mm							
h7	1200 mm							
11	3740 mm							
12	2590 mm							
b1	1350 mm							
/ e / l	40 mm x 125 mm x 1150 mm							
	2							
b3	860 mm							
m1	50 mm							
m2	130 mm							
Ast	2000 mm							
Ast	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							
	Hyulaulic							
	10 kW							
	9 kW							
	DIN 43595							
	48 V / 930 Ah							
	1300 kg							
	Mosfet AC speed controller							
	200 bar							
	25 l/min							
	< 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
α - Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	۰	4	4	4	4	4	4	4	4	4	4
h1 - Mast lowered height	mm	3720	3900	4150	4270	4590	4690	5000	5340	5550	5570
h2 - Mast free lift	mm	2900	3080	3330	3650	3770	3870	4180	4520	4680	4750
h3 - Mast lifting height	mm	8010	8400	9000	9500	10020	10200	11010	12000	12510	12720
h4 - Mast extended height	mm	8840	9230	9830	10350	10850	11175	11985	13005	13485	13695
Residual capacity with integrated side shift at max heigth	kg	1250	1250	1250	1100	1100	1000	850	750	700	500



Head Office B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



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