Technical sheet:

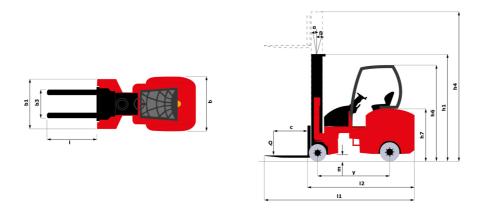
## **EMA II 18 HL-1**





		EMA II 18 HL-1 U	EMA II 18 HL-1 Created on June 16, 2025 at 11.45 AWI 010			
	Technical characteristics		Metric			
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	1750 kg			
1.6	Load center of gravity	c	500 mm			
1.8	Load distance, centre of drive axle to fork	x	308 mm			
1.9	Wheelbase	y	1745 mm			
	Weight					
2.1	Service weight		6900 kg			
2.2	Weight on front axle (laden) / rear axle (laden)		4200 kg / 4500 kg			
2.3	Weight on front axle (Inladen) / rear axle (Unladen)		2200 kg / 4700 kg			
2.0	Wheels		2200 kg / 1700 kg			
3.1	Tires type		Solid tires			
3.1	Dimensions of front wheels		412 x 178			
3.3	Dimensions of rear wheels		412 X 178			
3.5	Number of front wheels / rear wheels		2 / 2			
3.5.2	Number of drive wheels		2			
		L10				
3.6	Front wheel gauge	b10	1110 mm			
3.7	Rear wheel gauge	b11	1250 mm			
	Dimensions					
4.7	Height of overhead guard (cabin)	h6	2260 mm			
4.8	Seat height/stand height	h7	1200 mm			
4.19	Overall length	l1	3740 mm			
4.20	Length to face of forks	12	2590 mm			
4.21	Overall width	b1	1250 mm			
4.22	Forks section / width / length	s / e / l	40 mm x 125 mm x 1150 mm			
4.23	Fork carriage ISO 2328 (class/form) A/B		2			
4.24	Fork carriage width	b3	860 mm			
4.31	Ground clearance below mast	m1	50 mm			
4.32	Ground clearance at centre of wheelbase	m2	130 mm			
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	1950 mm			
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm			
	Performances					
5.1	Travel speed (laden / unladen)		9 km/h-9.50 km/h			
5.2	Lifting speed (laden / unladen)		0.35 m/s-0.45 m/s			
5.3	Lowering speed (laden / unladen)		0.40 m/s-0.36 m/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%)		1435 kg			
	Miscellaneous					
8.1	Type of drive control		Mosfet AC speed controller			
8.2	Working hydraulic pressure for attachments		200 bar			
8.3	Oil flow rate for attachments		25 l/min			
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	۰	1	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	٠	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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