

Technical sheet :

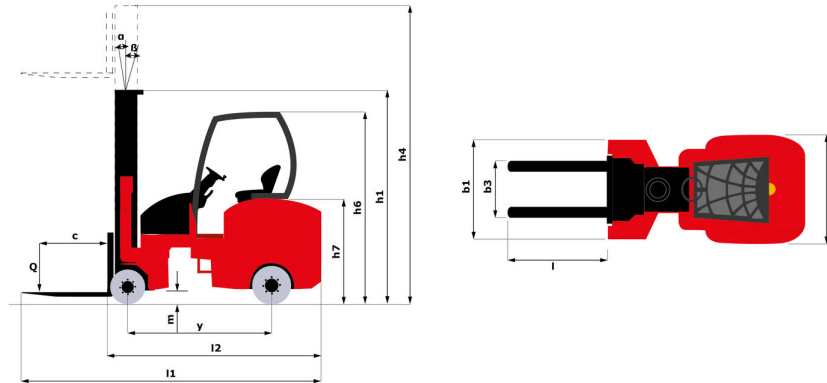
# **EMA II 18 HL-2**

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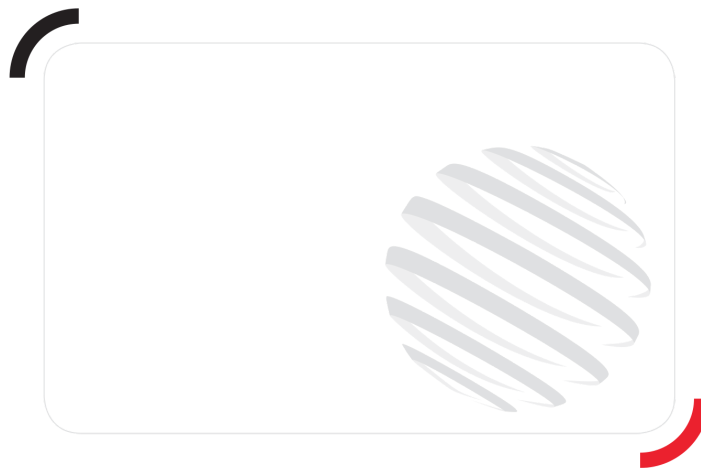
	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		EMA II 18 HL-2
1.3	Power source		Battery
1.4	Operator type		Seated
1.5	Max. capacity	Q	1750 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	308 mm
1.9	Wheelbase	y	1745 mm
	<b>Weight</b>		
2.1	Service weight		8700 kg
2.2	Weight on front axle (laden) / rear axle (laden)		6330 kg / 4080 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3480 kg / 5220 kg
	<b>Wheels</b>		
3.1	Tyres type		PPS
3.2	Dimensions of front wheels		412 x 178
3.3	Dimensions of rear wheels		457 x 178
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1110 mm
3.7	Rear wheel gauge	b11	1350 mm
	<b>Dimensions</b>		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	$\alpha / \beta$	1.5 / 4
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	l2	2590 mm
4.21	Overall width	b1	860 mm
4.22	Forks section / width / length	s / e / l	40 mm x 125 mm / 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
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm
	<b>Performances</b>		
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
	<b>Engine</b>		
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 / Batteries capacity		48 V / 930 Ah
	<b>Miscellaneous</b>		
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(A)
8.4	Sound level at the driver's ear according to DIN 12 053		73 dB(A)

## EMA II 18 HL-2 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex		FLT 8010	FLT 8400	FLT 9000	FLT 9500	FLT 10020	FLT 10200	FLT 11010	FLT 12000	FLT 12510	FLT 12720
h2 - Free lift	mm	2900	3080	3330	3650	3770	3870	4180	4520	4680	4750
h1 - Height mast lowered *	mm	3720	3900	4150	4270	4590	4690	5000	5340	5550	5570
h3 - Lifting Height	mm	8010	8400	9000	9500	10020	10200	11010	12000	12510	12720
h4 - Height mast extended *	mm	8840	9230	9830	1035	1085	11175	11985	13005	13485	13695
$\alpha / \beta$ - Mast inclination (front / rear)	°	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4	1 / 4
Residual capacity with integrated side shift (Industrial load chart)	kg	1250	1250	1250	1100	1100	1000	850	750	700	500
Residual capacity with integrated sideshift (Maximum height & LC = 600 mm)	kg	1250	1250	1250	1100	1100	1000	850	750	700	500



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