Technical sheet :

EMA II 18 HL-2

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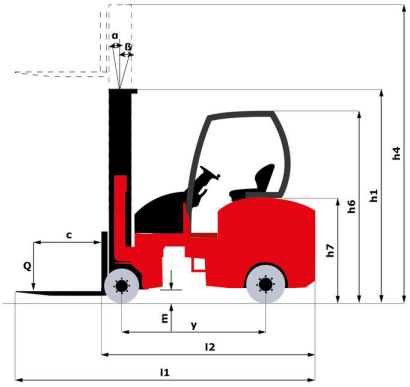
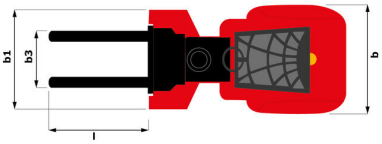
	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		EMA II 18 HL-2
1.3	Power source		Battery
1.4	Operator type		Seated
1.5	Max. capacity	Q	1750 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	308 mm
1.9	Wheelbase	y	1745 mm
	Weight		
2.1	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
	Wheels		
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
	Dimensions		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	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
	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 / Batteries capacity		48 V / 930 Ah
	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(A)

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
β - Mast inclination (rear)	°	4	4	4	4	4	4	4	4	4	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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