

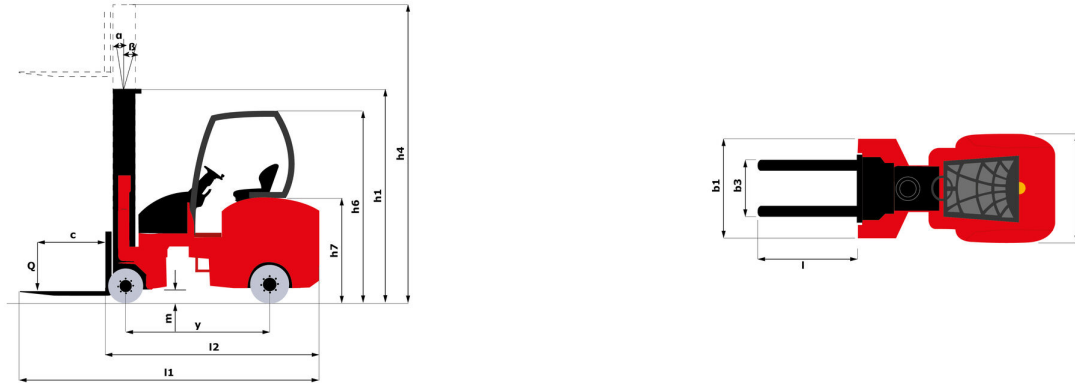
Technical sheet :

EMA II 20 HD-1



	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		EMA II 20 HD-1
1.3	Power source		Battery
1.4	Operator type		Seated
1.5	Max. capacity	Q	2000 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	278 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 (Unladen) / rear axle (Unladen)		2200 kg / 4700 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	1250 mm
	Dimensions		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	1.5 / 3.5
4.7	Height of overhead guard (cabin)	h6	2260 mm
4.8	Seat height/stand height	h7	1200 mm
4.19	Overall length	l1	3710 mm
4.20	Length to face of forks	l2	2560 mm
4.21	Overall width	b1	1250 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	2150 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 / 775 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 5550	FLT 6000	FLT 6600	FLT 7020	FLT 7620	FLT 8010	FLT 8610	FLT 9000	FLT 9500	FLT 10200	FLT 10560
β - Mast inclination (rear)	°	3	3	3	3	3	3	3	3	3	3	3
Residual capacity with integrated side shift (Industrial load chart)	kg	1600	1450	1450	1300	1300	1200	1100	1000	900	750	650
Residual capacity with integrated sideshift (Maximum height & LC = 600 mm)	kg	1450	1350	1350	1250	1200	1100	1000	1000	800	650	600



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