

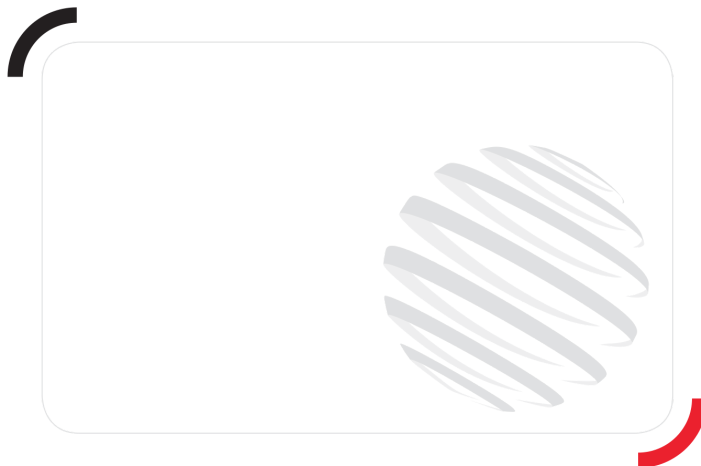
Technical sheet :

EMA II 20 HD-2



	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		EMA II 20 HD-2
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		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	1370 mm
	Dimensions		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	1.5 / 3.5
4.4	Max. lifting height	h3	10560 mm
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	1350 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
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	2000 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm
	Performances		
5.1	Travel speed (laden / unladen)		8.5 km/h / 9 km/h
5.2	Lifting speed (laden / unladen)		0.35 m/s / 0.45 m/s
5.3	Lowering speed (laden / unladen)		0.4 m/s / 0.36 m/s
5.7	Gradeability (laden / unladen)		6 % / 8 %
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
6.5	Battery weight (+/- 5%)		1300 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(A)
8.4	Sound level at the driver's ear according to DIN 12 053		73 dB(A)

Free Lift Triplex		FLT 5500	FLT 6000	FLT 6600	FLT 7620	FLT 8010	FLT 8610	FLT 9000	FLT 10020	FLT 10560
h1 - Mast height lowered	mm	2750	2900	3150	3590	3720	4020	4150	4590	4820
h2 - Mast free lift *	mm	1930	2080	2330	2770	2900	3200	3330	3770	4000
h3 - Mast lifting height *	mm	5500	6000	6600	7620	8010	8610	9000	10020	10560
h4 - Mast height extended	mm	6380	6830	7430	8450	8840	9440	9830	11000	11540
β - Mast inclination (rear)	°	3	3	3	3	3	3	3	3	3
Residual capacity with integrated sideshift (Maximum height & LC = 600 mm)	kg	1500	1500	1450	1400	1350	1300	1250	1000	850
Residual capacity with integrated side shift (Industrial load chart)	kg	1500	1500	1450	1400	1350	1300	1250	1000	850



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