Technical sheet:

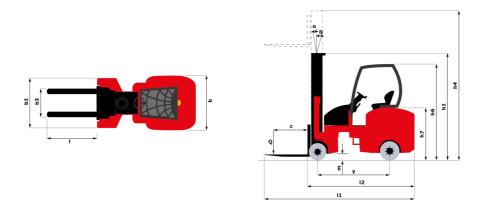
## **EMA II 20 HD-1**





		EMA II 20 HD-1 U	<b>EMA II 20 HD-1</b> Greated off May 2, 2024 at 1.20.11 AM 010				
	Technical characteristics		Metric				
1.1	Manufacturer		Manitou				
1.2	Model Name		EMA II 20 HD-1				
1.3	Power source		Electrical				
1.4	Operator type		Seated				
1.5	Max. capacity	Q	2000 kg				
1.6	Load center 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				
2.0	Wheels		LEGG Ng / 1700 Ng				
3.1	Tires type		Solid tires				
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	2 1110 mm				
3.7		b10	1250 mm				
3.7	Rear wheel gauge	BIT	1230 IIIII				
4.7	Dimensions  High of control control	l c	0000				
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	12	2560 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	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 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 20 HD-1 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 56	FLT 60	FLT 66	FLT 70	FLT 76	FLT 80	FLT 86	FLT 90	FLT 95	FLT 102	FLT 106
Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1	1	1	1
Mast/fork carriage tilt, backward	۰	3	3	3	3	3	3	3	3	3	3	3
h1 - Mast lowered height	mm	2750	2900	3150	3290	3590	3720	4020	4150	4500	4690	4820
h2 - Mast free lift	mm	1930	2080	2330	2470	2770	2900	3200	3330	3650	3870	4000
h3 - Mast lifting height	mm	5550	6000	6600	7020	7620	8010	8610	9000	9500	10200	10560
h4 - Mast extended height	mm	6380	6830	7430	7850	8450	8840	9440	9830	10475	11175	11535
Residual capacity with integrated side shift at max heigth	kg	1600	1450	1450	1300	1300	1200	1100	1000	900	750	650





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