Technical sheet:

## **EMA II 20 HD-2**





		<b>EMA II 20 HD-2</b> Created on May 2, 2024 at 3.59.21 AW 010				
Technical characteristics		Metric				
Manufacturer		Manitou				
2 Model Name		EMA II 20 HD-2				
Power source		Electrical				
1 Operator type		Seated				
Max. capacity	Q	2000 kg				
Load center of gravity	C	500 mm				
Load distance, centre of drive axle to fork	Х	278 mm				
Wheelbase	у	1745 mm				
Weight						
Service weight		8700 kg				
2 Weight on front axle (laden) / rear axle (laden)		6330 kg / 4080 kg				
Weight on front axle (Unladen) / rear axle (Unladen)		3480 kg / 5220 kg				
Wheels		5 155 mg / 5 = 15 mg				
Tires type		Solid tires				
2 Dimensions of front wheels		412 x 178				
Dimensions of rear wheels		457 x 178				
Number of front wheels / rear wheels		2/2				
2 Number of drive wheels		2				
Front wheel gauge	b10	1110 mm				
Rear wheel gauge	b11	1370 mm				
Dimensions	011	1370 111111				
Height of overhead guard (cabin)	h6	2260 mm				
Seat height/stand height	h7	1200 mm				
9 Overall length	11	3710 mm				
0 Length to face of forks	12	2560 mm				
Overall width	12 b1	2500 mm				
2 Forks section / width / length	s / e / l	40 mm x 125 mm x 1150 mm				
· ·	5/6/1	2				
Fork carriage ISO 2328 (class/form) A/B	h2	860 mm				
4 Fork carriage width	b3	50 mm				
1 Ground clearance below mast	m1					
2 Ground clearance at centre of wheelbase	m2	130 mm				
A Aisle Width for pallets 1000 x 1200 crossways	Ast	2000 mm				
4 Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm				
Performances		0.501 // 0.1 //				
Travel speed (laden / unladen)		8.50 km/h-9 km/h				
Lifting speed (laden / unladen)		0.35 m/s-0.45 m/s				
Lowering speed (laden / unladen)		0.40 m/s-0.36 m/s				
Gradeability (laden / unladen)		6 % / 8 %				
0 Service brake		Hydraulic				
Engine						
Drive motor rating S2 60 min		10 kW				
Lift motor rating at S3 15%		9 kW				
Battery according to DIN 43531/35/36 A, B, C		DIN 43595				
Battery voltage / capacity		48 V / 930 Ah				
Battery weight (+/- 5%)		1300 kg				
Miscellaneous						
Type of drive control		Mosfet AC speed controller				
2 Working hydraulic pressure for attachments		200 bar				
Oil flow rate for attachments		25 l/min				
Measured/guaranteed mean noise level at the ear of the operator		< 73 dB				
Sound level at the driver's ear according to DIN 12 053		73 dB				

## EMA II 20 HD-2 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 55	FLT 60	FLT 66	FLT 76	FLT 80	FLT 86	FLT 90	FLT 100	FLT 106
Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1	1
Mast/fork carriage tilt, backward	۰	3	3	3	3	3	3	3	3	3
h1 - Mast lowered height	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 extended height	mm	3680	6830	7430	8450	8840	9440	9830	11000	11540
Residual capacity with integrated side shift at max heigth	kg	1500	1500	1450	1400	1350	1300	1250	1000	850





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