Technical sheet:

EMA II 20 HD-2





Technical characteristics		Metric
Manufacturer		Manitou
Model Name		EMA II 20 HD-2
Power source		Electrical
Operator type		Seated
Max. capacity	Q	2000 kg
Load center of gravity	C	500 mm
Load distance, centre of drive axle to fork	x	278 mm
Wheelbase	у	1745 mm
Weight		-
Service weight		8700 kg
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		0400 kg / 0220 kg
Tires type		Solid tires
Dimensions of front wheels		412 x 178
Dimensions of rear wheels		457 x 178
Number of front wheels / rear wheels		2 / 2
Number of drive wheels		2
Front wheel gauge	b10	2 1110 mm
	b10	1370 mm
Rear wheel gauge	DII	1370 11111
Dimensions	h6	2260 mm
Height of overhead guard (cabin)	h7	1200 mm
Seat height/stand height	II7	3710 mm
Overall length	12	
Length to face of forks		2560 mm
Overall width	b1	1350 mm
Forks section / width / length	s / e / l	40 mm x 125 mm x 1150 mm 2
Fork carriage ISO 2328 (class/form) A/B	10	
Fork carriage width	b3	860 mm
Ground clearance below mast	m1	50 mm
Ground clearance at centre of wheelbase	m2	130 mm
Aisle Width for pallets 1000 x 1200 crossways	Ast	2000 mm
Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm
Performances		
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 %
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
Working hydraulic pressure for attachments		200 bar
Oil flow rate for attachments		25 I/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
α - Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1	1
β - 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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