Technical sheet:

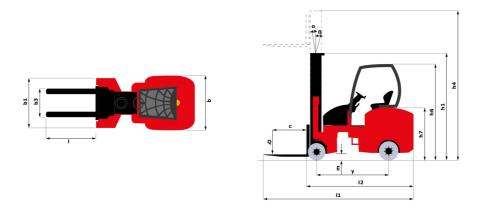
EMA II 20 HD-1





	EMA II 20 HD-1 G	EMA II 20 HD-1 Greated on June 18, 2025 at 11.05 AW 010				
Technical characteristics		Metric				
Manufacturer		Manitou				
Model Name		EMA II 20 HD-1				
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		6900 kg				
Weight on front axle (laden) / rear axle (laden)		4200 kg / 4500 kg				
Weight on front axle (Unladen) / rear axle (Unladen)		2200 kg / 4700 kg				
Wheels		2200 kg / 1700 kg				
Tires type		Solid tires				
Dimensions of front wheels		412 x 178				
Dimensions of rear wheels		412 x 178				
Number of front wheels / rear wheels		45/ X 1/8 2 / 2				
Number of drive wheels		2				
	h10					
Front wheel gauge	b10	1110 mm				
Rear wheel gauge	b11	1250 mm				
Dimensions	16	2000				
Height of overhead guard (cabin)	h6	2260 mm				
Seat height/stand height	h7	1200 mm				
Overall length	l1	3710 mm				
Length to face of forks	12	2560 mm				
Overall width	b1	1250 mm				
Forks section / width / length	s / e / l	40 mm x 125 mm x 1150 mm				
Fork carriage ISO 2328 (class/form) A/B		2				
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	1950 mm				
Aisle width for 800 x 1200 pallet lengthways	Ast	2150 mm				
Performances						
Travel speed (laden / unladen)		9 km/h-9.50 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)		8 % / 10.50 %				
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 / 775 Ah				
Battery weight (+/- 5%)		1435 kg				
Miscellaneous						
Type of drive control		Mosfet AC speed controller				
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				

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
α - Mast/fork carriage tilt, forward	۰	1	1	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	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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