Technical sheet :

EMA II 20 HD-2

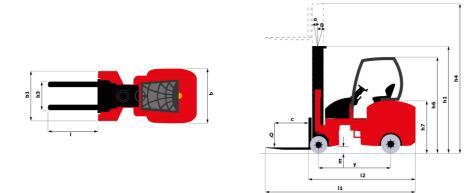




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		EMA II 20 HD-2 Cleated OII July 5, 2025 at 7.57 PWI 010			
	Technical characteristics		Metric	Imperial	
1.1	Manufacturer		Manitou	Manitou	
1.2	Model Name		EMA II 20 HD-2	EMA II 20 HD-2	
1.3	Power source		Electrical	Electrical	
1.4	Operator type		Seated	Seated	
1.5	Max. capacity	Q	2000 kg	4409 lb	
1.6	Load center of gravity	c	500 mm	20 in	
1.8	Load distance, centre of drive axle to fork	x	278 mm	11 in	
1.9	Wheelbase	v	1745 mm	69 in	
	Weight				
2.1	Service weight		8700 kg	19180 lb	
2.2	Weight on front axle (laden) / rear axle (laden)		6330 kg / 4080 kg	13955 lb / 8995 lb	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3480 kg / 5220 kg	7672 lb / 11508 lb	
2.0	Wheels		0100 kg / 0220 kg	, et 2 la , 11000 la	
3.1	Tires type		Solid tires	Solid tires	
3.2	Dimensions of front wheels		412 x 178	412 x 178	
3.3	Dimensions of rear wheels		457 x 178	457 x 178	
3.5	Number of front wheels / rear wheels		2/2	2/2	
3.5.2	Number of drive wheels		2/2	272	
		b10	2 1110 mm	2 44 in	
3.6 3.7	Front wheel gauge	b10	1370 mm	44 m 54 in	
3.7	Rear wheel gauge	DII	1370 1111	54 11	
4.7	Dimensions	h ć	0060	00 in	
4.7	Height of overhead guard (cabin)	h6	2260 mm	89 in	
4.8	Seat height/stand height	h7	1200 mm	47 in	
4.19	Overall length	1	3710 mm	146 in	
4.20	Length to face of forks	12	2560 mm	101 in	
4.21	Overall width	b1	1350 mm	53 in	
4.22	Forks section / width / length	s / e / l	40 mm x 125 mm x 1150 mm	2 in x 5 in x 45 in	
4.23	Fork carriage ISO 2328 (class/form) A/B		2	2	
4.24	Fork carriage width	b3	860 mm	34 in	
4.31	Ground clearance below mast	m1	50 mm	2 in	
4.32	Ground clearance at centre of wheelbase	m2	130 mm	5 in	
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2000 mm	79 in	
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm	87 in	
	Performances				
5.1	Travel speed (laden / unladen)		8.50 km/h-9 km/h	5 mph-6 mph	
5.2	Lifting speed (laden / unladen)		0.35 m/s-0.45 m/s	1 ft/s-1 ft/s	
5.3	Lowering speed (laden / unladen)		0.40 m/s-0.36 m/s	1 ft/s-1 ft/s	
5.7	Gradeability (laden / unladen)		6 % / 8 %	6 % / 8 %	
5.10	Service brake		Hydraulic	Hydraulic	
	Engine				
6.1	Drive motor rating S2 60 min		10 kW	10 kW	
6.2	Lift motor rating at S3 15%		9 kW	9 kW	
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43595	DIN 43595	
6.4	Battery voltage / capacity		48 V / 930 Ah	48 V / 930 Ah	
6.5	Battery weight (+/- 5%)		1300 kg	2866 lb	
	Miscellaneous				
8.1	Type of drive control		Mosfet AC speed controller	Mosfet AC speed controller	
8.2	Working hydraulic pressure for attachments		200 bar	2901 PSI	
8.3	Oil flow rate for attachments		25 l/min	7 US gpm	
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 73 dB	< 73 dB	
8.4	Sound level at the driver's ear according to DIN 12 053		73 dB	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	٥	3	3	3	3	3	3	3	3	3
h1 - Mast lowered height	in (mm)	108.3 (2750)	114.2 (2900)	124 (3150)	141.3 (3590)	146.5 (3720)	158.3 (4020)	163.4 (4150)	180.7 (4590)	189.8 (4820)
h2 - Mast free lift	in (mm)	76 (1930)	81.9 (2080)	91.7 (2330)	109.1 (2770)	114.2 (2900)	126 (3200)	131.1 (3330)	148.4 (3770)	157.5 (4000)
h3 - Mast lifting height	in (mm)	216.5 (5500)	236.2 (6000)	259.8 (6600)	300 (7620)	315.4 (8010)	339 (8610)	354.3 (9000)	394.5 (10020)	415.7 (10560)
h4 - Mast extended height	in (mm)	144.9 (3680)	268.9 (6830)	292.5 (7430)	332.7 (8450)	348 (8840)	371.7 (9440)	387 (9830)	433.1 (11000)	454.3 (11540)
Residual capacity with integrated side shift at max heigth	lb (kg)	3307 (1500)	3307 (1500)	3197 (1450)	3086 (1400)	2976 (1350)	2866 (1300)	2756 (1250)	2205 (1000)	1874 (850)



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