Technical sheet:

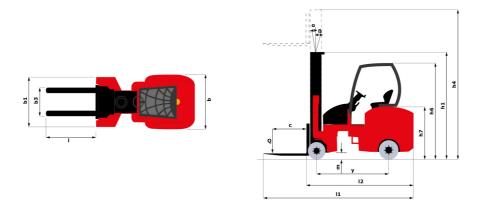
## EMA II 20





		EMA II 20	20 Greated Off April 20, 2023 at 3.40 AM 0			
	Technical characteristics		Metric			
1.1	Manufacturer		Manitou			
1.2	Model Name		EMA II 20			
1.3	Power source		Electrical			
1.4	Operator type		Seated			
1.5	Max. capacity	Q	2000 kg			
1.6	Load center of gravity	С	500 mm			
1.8	Load distance, centre of drive axle to fork	X	278 mm			
1.9	Wheelbase	У	1745 mm			
	Weight					
2.1	Service weight		6600 kg			
2.2	Weight on front axle (laden) / rear axle (laden)		4800 kg / 4400 kg			
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2200 kg / 4400 kg			
	Wheels		2200 kg / 1100 kg			
3.1	Tires type		Solid tires			
3.2	Dimensions of front wheels		412 x 178			
3.3	Dimensions of rear wheels		457 x 152			
3.5	Number of front wheels / rear wheels		2/2			
.5.2	Number of drive wheels		2			
3.6	Front wheel gauge	b10	1125 mm			
3.7		b10	1200 mm			
3.7	Rear wheel gauge	DII	1200 IIIII			
4.7	Dimensions  United for any local model (see high)	l c	0060			
4.7	Height of overhead guard (cabin)	h6	2260 mm			
4.8	Seat height/stand height	h7	1200 mm			
.19	Overall length	11	3710 mm			
1.20	Length to face of forks	12	2560 mm			
1.21	Overall width	b1	1200 mm			
1.22	Forks section / width / length	s / e / l	40 mm x 125 mm x 1150 mm			
1.23	Fork carriage ISO 2328 (class/form) A/B		2			
1.24	Fork carriage width	b3	860 mm			
1.31	Ground clearance below mast	m1	50 mm			
1.32	Ground clearance at centre of wheelbase	m2	130 mm			
1.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	1900 mm			
1.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2100 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 \$3 15%		9 kW			
6.3			DIN 43595			
	Battery according to DIN 43531/35/36 A, B, C					
6.4	Battery according to DIN 43531/35/36 A, B, C Battery voltage / capacity		48 V / 750 Ah			
			48 V / 750 Ah 1135 kg			
	Battery voltage / capacity					
6.5	Battery voltage / capacity Battery weight (+/- 5%)					
8.1	Battery voltage / capacity Battery weight (+/- 5%) Miscellaneous		1135 kg			
8.1 8.2	Battery voltage / capacity Battery weight (+/- 5%) Miscellaneous Type of drive control		1135 kg Mosfet AC speed controller			
6.4 6.5 8.1 8.2 8.3 8.4	Battery voltage / capacity Battery weight (+/- 5%) Miscellaneous Type of drive control Working hydraulic pressure for attachments		1135 kg Mosfet AC speed controller 200 bar			

EMA II 20 - Dimensional drawing



## Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 42	FLT 45	FLT 50	FLT 56	FLT 60	FLT 66	FLT 72	FLT 76	FLT 80	FLT 86	FLT 90	FLT 95	FLT 102
α - Mast/fork carriage tilt, forward	٠	1	1	1	1	1	1	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	٠	3	3	3	3	3	3	3	3	3	3	3	3	3
h1 - Mast lowered height	mm	2300	2410	2570	2750	2900	3150	3400	3590	3720	4020	4150	4500	4690
h2 - Mast free lift	mm	1480	1590	1750	1930	2080	2330	2580	2770	2900	3200	3330	3650	3870
h3 - Mast lifting height	mm	4200	4530	5010	5550	6000	6600	7200	7620	8010	8610	9000	9500	10200
h4 - Mast extended height	mm	5030	5360	5840	6380	6830	7430	8030	8450	8840	9440	9830	10475	11175
Residual capacity with integrated side shift at max heigth	kg	1800	1700	1600	1500	1400	1300	1200	1150	1080	1000	1000	900	750





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