Technical sheet :





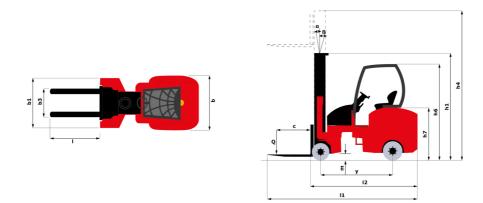


	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	
1.6	Load center of gravity	
1.8	Load distance, centre of drive axle to fork	
1.9	Wheelbase	
	Weight	
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (laden)	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	
	Wheels	
3.1	Tires type	
3.2	Dimensions of front wheels	
3.3	Dimensions of rear wheels	
3.5	Number of front wheels / rear wheels	
3.5.2	Number of hour wheels	
3.5.2	Front wheel gauge	
3.0	Rear wheel gauge	
3.7	Rear wheel gauge Dimensions	
47		
4.7	Height of overhead guard (cabin)	
4.8	Seat height/stand height Overall length	
4.19		
4.20	Length to face of forks	
4.21	Overall width	
4.22	Forks section / width / length	s
4.23	Fork carriage ISO 2328 (class/form) A/B	
4.24	Fork carriage width	
4.31	Ground clearance below mast	
4.32	Ground clearance at centre of wheelbase	
4.33	Aisle Width for pallets 1000 x 1200 crossways	
4.34	Aisle width for 800 x 1200 pallet lengthways	
	Performances	
5.1	Travel speed (laden / unladen)	
5.2	Lifting speed (laden / unladen)	
5.3	Lowering speed (laden / unladen)	
5.7	Gradeability (laden / unladen)	
5.10	Service brake	
	Engine	
6.1	Drive motor rating S2 60 min	
6.2	Lift motor rating at S3 15%	
6.3	Battery according to DIN 43531/35/36 A, B, C	
6.4	Battery voltage / capacity	
6.5	Battery weight (+/- 5%)	
	Miscellaneous	
8.1	Type of drive control	
8.2	Working hydraulic pressure for attachments	
8.3	Oil flow rate for attachments	
	Measured/guaranteed mean noise level at the ear of the operator	
8.4		

EMA II 20 Created on June 16, 2025 at 12:42 PM UTC

Metric
Manitou
EMA II 20
Electrical
Seated
2000 kg
500 mm
278 mm
1745 mm
6600 kg
4800 kg / 4400 kg
2200 kg / 4400 kg
Solid tires
412 x 178
457 x 152
2 / 2
2
1125 mm
1200 mm
2260 mm
1200 mm
3710 mm
2560 mm
1200 mm
40 mm x 125 mm x 1150 mm 2
2 860 mm
50 mm
130 mm
1900 mm
2100 mm
2100 mm
9 km/h-9.50 km/h
0.35 m/s-0.45 m/s
0.40 m/s-0.36 m/s
8 % / 10.50 %
Hydraulic
10 kW
9 kW
DIN 43595
48 V / 750 Ah
1135 kg
Mosfet AC speed controller
200 bar
25 l/min
< 73 dB
73 dB

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	۰	1	1	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	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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