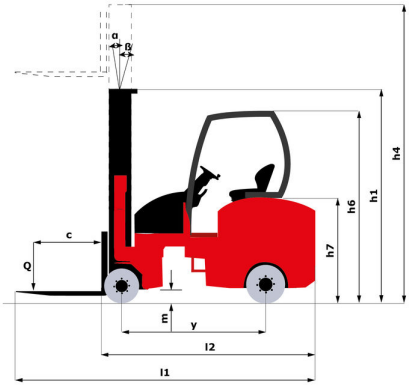
Technical sheet :

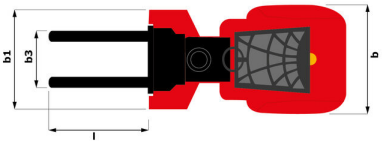
EMA II 20

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		EMA II 20
1.3	Power source		Battery
1.4	Operator type		Seated
1.5	Max. capacity	Q	2000 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	278 mm
1.9	Wheelbase	y	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		
3.1	Tyres type		PPS
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
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1125 mm
3.7	Rear wheel gauge	b11	1200 mm
	Dimensions		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	1.5 / 3.5
4.7	Height of overhead guard (cabin)	h6	2260 mm
4.8	Seat height/stand height	h7	1200 mm
4.19	Overall length	l1	3710 mm
4.20	Length to face of forks	l2	2560 mm
4.21	Overall width	b1	1200 mm
4.22	Forks section / width / length	s / e / l	40 mm x 125 mm / 1150 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		2
4.24	Fork carriage width	b3	860 mm
4.31	Ground clearance below mast	m1	50 mm
4.32	Ground clearance at centre of wheelbase	m2	130 mm
4.34	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 S3 15%		9 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43595
6.4	Battery / Batteries capacity		48 V / 750 Ah
	Miscellaneous		
8.1	Type of drive control		Mosfet AC speed controller
8.2	Working hydraulic pressure for attachments		200 bar
8.3	Oil flow rate for attachments		25 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 73 dB(A)

Dimensional drawing





Characteristics of masts and residual capacities

Free Lift Triplex		FLT 4200	FLT 4530	FLT 5010	FLT 5550	FLT 6000	FLT 6600	FLT 7200	FLT 7620	FLT 8010	FLT 8610
Residual capacity with integrated side shift (Industrial load chart)	kg	1800	1700	1600	1500	1400	1300	1200	1150	1080	1000
Residual capacity with integrated sideshift (Maximum height & LC = 600 mm)	kg	1600	1600	1500	1400	1300	1250	1150	1050	1000	950

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