Technical sheet:

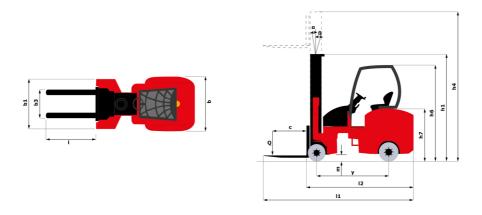
EMA II 20 HD-1





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	Х	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		<u>y</u> y
Tires type		Solid tires
Dimensions of front wheels		412 x 178
Dimensions of rear wheels		457 x 178
Number of front wheels / rear wheels		2/2
Number of drive wheels		2
Front wheel gauge	b10	1110 mm
Rear wheel gauge	b11	1250 mm
Dimensions	511	1200 11111
Height of overhead guard (cabin)	h6	2260 mm
Seat height/stand height	h7	1200 mm
Overall length	 I1	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	37671	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	Ast	2130 11111
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		Hydraulio
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		1400 Kg
Type of drive control		Mosfet AC speed controller
,,		Mostet AC speed controller 200 bar
Working hydraulic pressure for attachments		200 bar 25 l/min
Oil flow rate for attachments		: :
Measured/guaranteed mean noise level at the ear of the operator		< 73 dB
Sound level at the driver's ear according to DIN 12 053		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
Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1	1	1	1
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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