Technical sheet :

EMA II 18 HL-1





	EMA II 18 HL-1	Created on June 17, 2025 at
Technical characteristics		Metric
Manufacturer		Manitou
Model Name		EMA II 18 HL-1
Power source		Electrical
Operator type		Seated
Max. capacity	Q	1750 kg
Load center of gravity	С	500 mm
Load distance, centre of drive axle to fork	x	308 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		
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		
Height of overhead guard (cabin)	h6	2260 mm
Seat height/stand height	h7	1200 mm
Overall length	11	3740 mm
Length to face of forks	12	2590 mm
Overall width	b1	1250 mm

s / e / l

b3

m1

m2

Ast

Ast

11

40 mm x 125 mm x 1150 mm

2

860 mm

50 mm

130 mm

1950 mm

2200 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 / 775 Ah

1435 kg

Mosfet AC speed controller

200 bar

25 l/min

< 73 dB

73 dB

EMA II 18 HL-1 - Dimensional drawing

Oil flow rate for attachments

Fork carriage width

Performances

Service brake

Miscellaneous Type of drive control

Engine

Forks section / width / length

Ground clearance below mast

Travel speed (laden / unladen)

Lifting speed (laden / unladen)

Gradeability (laden / unladen)

Drive motor rating S2 60 min

Lift motor rating at S3 15%

Battery voltage / capacity Battery weight (+/- 5%)

Lowering speed (laden / unladen)

Fork carriage ISO 2328 (class/form) A/B

Ground clearance at centre of wheelbase

Aisle Width for pallets 1000 x 1200 crossways

Aisle width for 800 x 1200 pallet lengthways

Battery according to DIN 43531/35/36 A, B, C

Working hydraulic pressure for attachments

Measured/guaranteed mean noise level at the ear of the operator

Sound level at the driver's ear according to DIN 12 053

1.1

1.2 1.3

1.4

1.5

1.6 1.8

1.9

2.1

2.2

2.3

3.1

32

3.3

3.5 3.5.2

> 3.6 3.7

> 4.7

4.8

4.19 4.20

4.21

4.22

4.23

4.24

4.31

4.32

4.33

4.34

5.1

5.2

5.3

5.7

5.10

6.1

6.2 6.3

6.4

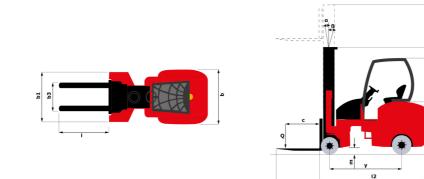
6.5

8.1 8.2

8.3

8.4

8.4



Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 80	FLT 84	FLT 86	FLT 90	FLT 95	FLT 100	FLT 102	FLT 106
a - Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	٥	4	4	4	4	4	4	4	4
h1 - Mast lowered height	mm	3720	3900	4020	4150	4500	4590	4690	4820
h2 - Mast free lift	mm	2900	3080	3200	3330	3650	3770	3870	4000
h3 - Mast lifting height	mm	8010	8400	8610	9000	9500	10020	10200	10560
h4 - Mast extended height	mm	8840	9230	9440	9830	10475	10850	11175	11535
Residual capacity with integrated side shift at max heigth	kg	1250	1150	1150	1000	1000	750	750	650



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