Technical sheet:

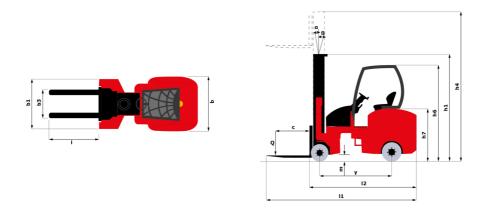
EMA II 18 HL-2





Model Name			EMAII IS HL-2 GIC	ited off May 3, 2024 at 11.39.29 AM
Model Name		Technical characteristics		Metric
Power source Sected	1.1	Manufacturer		Manitou
	1.2	Model Name		EMA II 18 HL-2
Max. capacity	1.3	Power source		Electrical
Load distance, centre of drive axie to fork	1.4	Operator type		Seated
	1.5	Max. capacity	Q	1750 kg
Weight Weight Stroke wei	1.6	Load center of gravity	С	500 mm
	1.8	• ,	X	
Meight Service weight Service weig	1.9		V	1745 mm
Serice weight		Weight		
Weight on front atle (laden) / near axie (Unladen) Sa30 kg / S20 kg	2.1	•		8700 ka
Weight on front axie (Unladen) / rear axie (Unladen) Sak8 kg / 5220 kg	2.2	-		*
Winesis Fire type		. , , , ,		
	2.0	- , , , ,		0 100 kg / 0220 kg
	3 1			Solid tires
1				
Number of front wheels / rear wheels 2 / 2				
5.5.2 Number of drive wheels 2 3.6 Front wheel gauge b11 1110 mm 3.7 Rear wheel gauge b11 1350 mm 4.7 Height of owerhead guard (cabin) h6 2260 mm 4.8 Seat height stand height h7 1200 mm 1.19 Overall length i1 3740 mm 1.20 Length to face of forks i2 2590 mm 1.21 Overall width b1 1350 mm 1.22 Fork section / width / length \$ / e / 1 40 mm x 155 mm x 1150 mm 1.22 Fork carriage ISO 2328 (class/form) A/B \$ / e / 1 40 mm x 155 mm x 1150 mm 1.23 Ground clearance below mast m1 5 omm 1.31 Ground clearance at centre of wheelbase m2 130 mm 1.32 Asile width for 800 x 1200 rorssways Ast 2000 mm 3.34 Asile width for 800 x 1200 rorssways Ast 2000 mm 5.7 Travel speed (laden / unladen) 9 km/h-9.50 km/h 5.2 Lift may speed (laden / unladen)				
Sear Wheel gauge				
			h10	
Height of overhead guard (cabin) h6 2280 mm 4.8 Seat height stand height h7 1200 mm 1.9 Overall length 11 3740 mm 1.20 Length to face of forks 12 2.590 mm 1.21 Overall width 1350 mm 1.22 Forks section / width / length 5 / e / 1 40 mm x 125 mm x 1150 mm 1.23 Fork carriage width 5 / e / 1 40 mm x 125 mm x 1150 mm 1.24 Fork carriage width 5 / e / 1 40 mm x 125 mm x 1150 mm 1.25 Fork carriage width 50 mm 2 Cround clearance below mast m1 50 mm 3.11 Ground clearance at centre of wheelbase m2 130 mm 3.12 Ground clearance at centre of wheelbase m2 130 mm 3.13 Aisle width for pallets 1000 x 1200 crossways Ast 2200 mm 3.14 Aisle width for pallets 1000 x 1200 crossways Ast 2200 mm 4 Fordromances	3.7		DII	1350 mm
4.8. Seat height/stand height h7 1200 mm 1.19 Overall length 11 3740 mm 1.20 Length to face of forks 12 2 2590 mm 1.21 Overall width b1 1350 mm 1.22 Fork section / width / length s / e / l 40 mm x 125 mm x 1150 mm 1.23 Fork carriage lSO 2328 (class/form) A/B s / e / l 40 mm x 125 mm x 1150 mm 1.24 Fork carriage width b3 860 mm 3.31 Ground clearance below mast m1 50 mm 3.32 Aisle Width for pallets 1000 x 1200 crossways Ast 2000 mm 3.33 Aisle Width for pallets 1000 x 1200 crossways Ast 22000 mm 3.34 Aisle width for 800 x 1200 pallet lengthways Ast 22000 mm 3.34 Aisle width for 800 x 1200 pallet lengthways Ast 22000 mm 5.1 Travel speed (laden / unladen) 9 km/h-9.50 km/h 5.2 5.2 Lifting speed (laden / unladen) 9 km/h-9.50 km/h 6.2 5.7 Gradeability (laden / unladen) <td< td=""><td>4.7</td><td></td><td>16</td><td>2262</td></td<>	4.7		16	2262
11 3740 mm 12 2590 mm 12 2590 mm 12 2590 mm 12 2590 mm 1300 mm				
Legit to face of forks 12 2590 mm Legit to face of forks 1310 mm Legit to face of forks 1310 mm Legit to face section / width / length 1310 mm Legit to Fork section / width / length 1310 mm Legit to Fork carriage ISO 2328 (class/form) A/B 2 2 Legit to Fork carriage Width 1310 mm				
		•		
Forks section / width / length				
Fork carriage ISO 2328 (class/form) A/B 2 1.24 Fork carriage width 53 860 mm 1.31 Ground clearance below mast 50 mm 1.32 Ground clearance at centre of wheelbase m2 130 mm 1.33 Aise Width for pallets 1000 x 1200 crossways Ast 2200 mm 1.34 Aise width for 800 x 1200 pallet lengthways Ast 2200 mm 1.35 Fork carriage width or 800 x 1200 pallet lengthways Ast 2200 mm 1.34 Aise width for 800 x 1200 pallet lengthways Ast 2200 mm 1.35 Fork carriage width or 800 x 1200 pallet lengthways Ast 2200 mm 1.36 Fork carriage width or 800 x 1200 crossways Ast 2200 mm 1.36 Fork carriage width or 800 x 1200 pallet lengthways Ast 2200 mm 1.35 Fork carriage width or 800 x 1200 pallet lengthways Ast 2200 mm 1.36 Fork carriage width or 800 x 1200 pallet lengthways Ast 2200 mm 1.36 Fork carriage width or 800 x 1200 pallet lengthways Ast 2200 mm 1.36 Fork carriage width or 800 x 1200 pallet lengthways Ast 2200 mm 1.36 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.37 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.38 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.38 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.39 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.30 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.30 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.30 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.30 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.30 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.30 Fork carriage width of 800 x 1200 pallet lengthways Ast 2200 mm 1.30 Fork carriage width of 800 x 1200 pallet lengthways Ast 2000 mm 1.30 Fork carriage width of 800 x 1200 pallet lengt				
1.24 Fork carriage width			s / e / l	
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 2000 mm 1.34 Aisle width for 800 x 1200 pallet lengthways Ast 2200 mm 1.35 Performances		S Company of the Comp		
3.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2000 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 % 5.7 Gradeability (laden / unladen) 8 % / 10.50 % 6.10 Service brake Hydraulic Engine 6.1 Drive motor rating \$2 60 min 10 kW 6.2 Lift motor rating at \$3 15% 9 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43595 6.4 Battery voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg Miscellaneous Mosfet AC speed controller 8.2 Working hydraulic pressure for attachments 200 bar 8.3 Oil flow rate for attachments 25 1/min				
Asile 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) 5.8 % / 10.50 % 5.7 Gradeability (laden / unladen) 5.8 Sevice brake Engine 6.1 Drive motor rating \$2 60 min 6.2 Lift motor rating at \$3 15% 6.3 Battery according to DIN 43531/35/36 A, B, C 6.4 Battery voltage / capacity 6.5 Battery weight (+/- 5%) 6.6 Battery weight (+/- 5%) 6.7 Working hydraulic pressure for attachments 6.2 Working hydraulic pressure for attachments 6.3 Unif now rate for attachments 6.4 Working hydraulic pressure for attachments 6.5 DIN 43595 6.6 Battery weight (-/- 5%) 6.7 DIN 43595 6.8 DIN 43595 6.9			m2	
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 \$2 60 min 10 kW 6.2 Lift motor rating at \$3 15% 9 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43595 6.4 Battery voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg 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 I/min	4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2000 mm
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 % 6.10 Service brake Hydraulic Engine 6.1 Drive motor rating \$2 60 min 10 kW 6.2 Lift motor rating at \$3 15% 9 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43595 6.4 Battery voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg 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 1/min	4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2200 mm
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 \$2.60 min 10 kW 6.2 Lift motor rating at \$3.15% 9 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43595 6.4 Battery voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg 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		Performances		
Lowering speed (laden / unladen) 0.40 m/s-0.36 m/s	5.1	Travel speed (laden / unladen)		9 km/h-9.50 km/h
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 voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg 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	5.2	Lifting speed (laden / unladen)		0.35 m/s-0.45 m/s
Service brake	5.3	Lowering speed (laden / unladen)		0.40 m/s-0.36 m/s
Engine Image: Company of the policy of the pol	5.7	Gradeability (laden / unladen)		8 % / 10.50 %
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 voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg 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	5.10	Service brake		Hydraulic
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 voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg 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		Engine		
6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43595 6.4 Battery voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg 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	6.1	Drive motor rating S2 60 min		10 kW
6.4 Battery voltage / capacity 48 V / 930 Ah 6.5 Battery weight (+/- 5%) 1300 kg 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	6.2	Lift motor rating at S3 15%		9 kW
Battery weight (+/- 5%) Miscellaneous 8.1 Type of drive control 8.2 Working hydraulic pressure for attachments Oil flow rate for attachments 1300 kg Mosfet AC speed controller 200 bar 251/min	6.3	Battery according to DIN 43531/35/36 A, B, C		DIN 43595
Miscellaneous Mosfet AC speed controller 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	6.4	Battery voltage / capacity		48 V / 930 Ah
8.1Type of drive controlMosfet AC speed controller8.2Working hydraulic pressure for attachments200 bar8.3Oil flow rate for attachments25 l/min	6.5	Battery weight (+/- 5%)		1300 kg
Working hydraulic pressure for attachments 200 bar 0.1 flow rate for attachments 25 l/min				
Working hydraulic pressure for attachments 200 bar 0.1 flow rate for attachments 25 l/min	8.1			Mosfet AC speed controller
8.3 Oil flow rate for attachments 25 1/min	8.2	**		
	8.3			
	8.4			
,	8.4			

EMA II 18 HL-2 - Dimensional drawing



Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 80	FLT 84	FLT 90	FLT 95	FLT 100	FLT 102	FLT 110	FLT 120	FLT 125	FLT 127
Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1	1	1
Mast/fork carriage tilt, backward	٠	4	4	4	4	4	4	4	4	4	4
h1 - Mast lowered height	mm	3720	3900	4150	4270	4590	4690	5000	5340	5550	5570
h2 - Mast free lift	mm	2900	3080	3330	3650	3770	3870	4180	4520	4680	4750
h3 - Mast lifting height	mm	8010	8400	9000	9500	10020	10200	11010	12000	12510	12720
h4 - Mast extended height	mm	8840	9230	9830	10350	10850	11175	11985	13005	13485	13695
Residual capacity with integrated side shift at max heigth	kg	1250	1250	1250	1100	1100	1000	850	750	700	500





Head Office

B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes