Technical sheet:

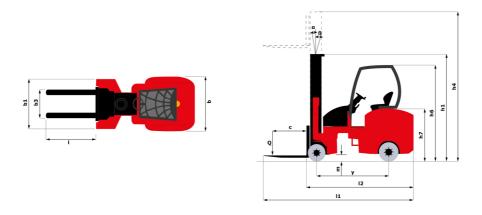
EMA II 20 HD-2





Technical characteristics	ZU AIVI
Model Name	
1.4 Operator type	
1.5 Max. capacity	
1.6 Load center of gravity C S00 mm 1.8 Load distance, centre of drive axle to fork x 278 mm 1.9 Wheelbase y 1745 mm 1.9 Worlpht Service weight S700 kg 2.1 Service weight S300 kg / 4080 kg 2.2 Weight on front axle (laden) / rear axle (laden) G330 kg / 4080 kg 2.3 Weight on front axle (Unladen) / rear axle (Unladen) 3480 kg / 5220 kg Wheels Single for the form twheels Solid tires 3.1 Tires type Solid tires 3.2 Dimensions of front wheels S12 Y2 2 Dimensions of front wheels G47 x 178 3.3 Dimensions of front wheels G47 x 178 3.5 Number of front wheels / rear wheels 2 / 2 5.5 Number of drive wheels 2 / 2 5.5 Number of drive wheels 1110 mm 5.6 Fort wheel gauge b10 1110 mm 5.7 Height of overhead guard (cabin) h6 2260 mm 4.8 Seat height/stand height h7 1200 mm 5.8 Seat height/stand height h7 1200 mm 5.1 Towel section / width / length s / e / 1 40 mm x 125 mm x 1150 mm 5.2 Fork carriage slo 2328 (class/form) A/B 2 5.2 Fork carriage width length s / e / 1 40 mm x 125 mm x 1150 mm 5.3 Ground clearance at centre of wheelbase m2 130 mm 5.3 Ground clearance below mast m1 50 mm 5.4 Tarel speed (laden / unladen) 8.50 km/h 9 km/h 5.5 Ground clearance stentre of wheelbase m2 130 mm 5.5 Ground clearance stentre of wheelbase m2 130 mm 6.5 Kale sheel width for 800 x 1200 pallet lengthwaye Ast 2200 mm 6.6 Kale sheel width Son km/h 9 km/h 5.5 Ground clearance stentre of wheelbase Hydraulic 5.6 Fork coming speed (laden / unladen) 0.40 m/s 3.50 m/s -0.45 m/s 5.7 Ground clearance stentre of wheelbase Hydraulic 5.8 Fork coming speed (laden / unladen) 0.40 m/s 3.50 m/s -0.45 m/s 5.7 Ground clearance stentre of wheelbase Hydraulic 5.8 Fork coming speed (laden / unladen) 0.40 m/s 3.50 m/s -0.45 m/s 5.8 Fork coming speed (laden	
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1.9 Wheelbase y 1745 mm Weight Weight S700 kg	
1.9 Wheelbase Y 1745 mm Weight Weight Srow Weight Srow Weight Srow Weight Srow	
Service weight	
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Weight on front axie (Unladen) / rear axie (Unladen) 3480 kg / 5220 kg Wheels Solid times	
Wheels Solid tires Solid	
3.1 Tires type Solid tires 3.2 Dimensions of front wheels 412 x 178 3.3 Dimensions of rear wheels 457 x 178 3.5 Number of front wheels / rear wheels 2 / 2 5.5 Number of front wheels 2 3.6 Front wheel gauge b10 1110 mm 3.7 Rear wheel gauge b11 1370 mm Dimensions 4.7 Height of overhead guard (cabin) h6 2260 mm 4.8 Seat height Stand height h7 1200 mm 4.19 Overall length 11 3710 mm 4.19 Overall width h7 120 mm 4.10 Overall width b1 1350 mm 4.21 Overall width (- length 5 / 4 / 40 mm x 125 mm x 1150 m 2 4.22 Fork section / width / length 5 / 4 / 40 mm x 125 mm x 1150 m 2 4.23 Fork carriage width b1 38 60 mm 4.23 Fork carriage width b3 860 mm 4.31 Gr	
1	
3.3 Dimensions of rear wheels	
3.5 Number of front wheels / rear wheels 2 / 2 5.5.2 Number of drive wheels 2 3.6 Front wheel gauge b10 1110 mm 3.7 Rear wheel gauge b11 1370 mm Dimensions 4.7 Height of overhead guard (cabin) h6 2260 mm 4.8 Seat height/stand height h7 1200 mm 4.9 Overall length 11 3710 mm 4.20 Length to face of forks 12 2560 mm 4.21 Overall width b1 1350 mm 4.22 Forks section / width / length \$ / e / I 40 mm x 125 mm x 1150 mm 4.22 Fork carriage ISO 2328 (class/form) A/B 2 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 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2000 mm 4.34 Lifting speed (laden /	
Number of drive wheels 2 3.6 Front wheel gauge b10 1110 mm 1370 mm 137	
Sear wheel gauge	
Rear wheel gauge	
Dimensions Height of overhead guard (cabin) h6 2260 mm	
Height of overhead guard (cabin)	
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Fork carriage ISO 2328 (class/form) A/B 2 1.24	
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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 Performances 5.1 Travel speed (laden / unladen) 8.50 km/h-9 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) 6 % / 8 % 5.10 Service brake Hydraulic Engine 6.1 Drive motor rating \$2 60 min 10 kW	
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5.10 Service brake Hydraulic Engine Engine 6.1 Drive motor rating \$2.60 min 10 kW	
Engine 6.1 Drive motor rating \$2 60 min 10 kW	
6.1 Drive motor rating \$2.60 min 10 kW	
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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 controll	r
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	
8.4 Sound level at the driver's ear according to DIN 12 053	

EMA II 20 HD-2 - Dimensional drawing



Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 55	FLT 60	FLT 66	FLT 76	FLT 80	FLT 86	FLT 90	FLT 100	FLT 106
Mast/fork carriage tilt, forward	۰	1	1	1	1	1	1	1	1	1
Mast/fork carriage tilt, backward	۰	3	3	3	3	3	3	3	3	3
h1 - Mast lowered height	mm	2750	2900	3150	3590	3720	4020	4150	4590	4820
h2 - Mast free lift	mm	1930	2080	2330	2770	2900	3200	3330	3770	4000
h3 - Mast lifting height	mm	5500	6000	6600	7620	8010	8610	9000	10020	10560
h4 - Mast extended height	mm	3680	6830	7430	8450	8840	9440	9830	11000	11540
Residual capacity with integrated side shift at max heigth	kg	1500	1500	1450	1400	1350	1300	1250	1000	850





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