Technical sheet:

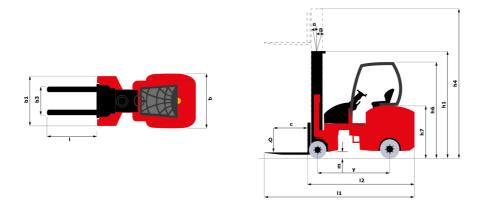
EMA II 20





Technical Characteristics
Model Name
1.4 Operator type
1.5 Max. capacity Q 2000 kg 1.6 Load center of gravity C 500 mm 1.8 Load center of gravity X 278 mm 1.9 Wheelbase Y 1745 mm 1.9 Wheelbase Y 1745 mm 1.0 Weight Genote
1.6 Load center of gravity c S00 mm x 273 mm x x 273 mm x x 273 mm x x x 273 mm x x x x x x x x x
1.8 Load distance, centre of drive axele to fork y 1745 mm y y 1745 mm y y y y y y y y y
Neelbase Y 1745 mm Neelbase Y 1745 mm Neelbase Nee
Service weight
Weight on front axle (laden) / rear axle (laden) Weight on front axle (Unladen) Weight on front axle (Unladen) Wheels
Weight on front axie (Unladen) / rear axie (Unladen) 2200 kg / 4400 kg
Wheels Solid tres 3.2 Dimensions of front wheels 412 x 178 3.3 Dimensions of rear wheels 457 x 152 3.5 Number of firont wheels / rear wheels 2 / 2 5.5 Number of drive wheels 2 3.6 Front wheel gauge b10 1125 mm 3.7 Rear wheel gauge b11 1200 mm 4.7 Height of overhead guard (cabin) h6 2260 mm 4.8 Seat height/stand height h7 1200 mm 4.9 Overall length h7 1200 mm 4.10 Overall width b1 1200 mm 4.20 Length to face of forks 12 2560 mm 4.21 Overall width b1 1200 mm 4.22 Fork section / width / length b1 1200 mm 4.23 Fork carriage width b1 40 mm x 125 mm x 1150 mm 4.24 Fork carriage width b3 860 mm 4.31 Ground clearance at centre of wheelbase m2 130 mm
Tires type
3.2 Dimensions of front wheels 412 x 178 3.3 Dimensions of rear wheels 2/2 3.5 Number of front wheels / rear wheels 2/2 5.52 Number of front wheel gauge b10 1125 mm 3.6 Front wheel gauge b11 1200 mm 4.7 Height of owehead guard (cabin) h6 2260 mm 4.8 Seat height/stand height h7 1200 mm 4.9 Uverall length 11 3710 mm 1.9 Overall length 11 3710 mm 1.0 Overall width h1 120 mm 1.2 5 foks section / width / length s / e / l 40 mm x 125 mm x 1150 mm 1.2 Foks section / width / length s / e / l 40 mm x 125 mm x 1150 mm 1.2 Fok carriage width b1 120 mm 1.3 Fok carriage width b3 850 mm 1.3 A isle Width for pallets 1000 x 1200 crossways m1 50 mm 1.3 A isle width for pallets 1000 x 1200 crossways Ast 2100 mm
3.2 Dimensions of front wheels 412 x 178 3.3 Dimensions of rear wheels 2 / 2 3.5 Number of front wheels / rear wheels 2 / 2 5.52 Number of front wheel gauge b10 1125 mm 3.6 Front wheel gauge b11 1200 mm 3.7 Rear wheel gauge b11 1200 mm 4.7 Height of owefhead guard (cabin) h6 2260 mm 4.8 Seat height/stand height h7 1200 mm 4.9 Overall length h1 3710 mm 4.9 Overall length b1 1200 mm 4.1 Overall width b1 1200 mm 4.2 Eoks section / width / length s / e / l 40 mm x 125 mm x 1150 mm 4.2 Fork searing sewidth s / e / l 40 mm x 125 mm x 1150 mm 4.2 Fork carriage width b3 860 mm 3.3 A isle width for pallets 1000 x 1200 crossways m1 50 mm 3.3 A isle width for pallets 1000 x 1200 crossways A st 2 100 mm
3.5 Number of front wheels / rear wheels 2 / 2 5.5 Number of dive wheels 2 3.6 Front wheel gauge b10 1125 mm 3.7 Rear wheel gauge b11 1200 mm Dimensions 4.7 Height of overhead guard (cabin) h6 2260 mm 4.8 Seat height/stand height h7 1200 mm 4.8 Seat height/stand height h7 1200 mm 4.9 Userall length h7 1200 mm 4.0 Length to face of forks l2 2560 mm 4.20 Length to face of forks l2 2560 mm 4.21 Overall width b1 1200 mm 4.22 Fork section / width / length \$ e/ 1 40 mm x 125 mm x 150 mm 4.23 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 cross ways
1.5.2 Number of drive wheels 2 3.6 Front wheel gauge b10 1125 mm 3.7 Rear wheel gauge b11 1200 mm 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 length b1 1200 mm 4.22 Fork section / width / length s / e / l 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 8600 mm 4.31 Ground clearance at centre of wheelbase 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 1900 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2100 mm 5.7 Trevel speed (laden / unladen)
Number of drive wheels 2
Sear wheel gauge Bill Bi
Rear wheel gauge Bill 1200 mm Rear wheel gauge Bill 1200 mm Rear wheel gauge Rear wheel gaug
Dimensions Height of overhead guard (cabin) h6 2260 mm
Height of overhead guard (cabin)
4.8 Seat height//stand height h7 1200 mm 1.19 Overall length i1 3710 mm 1.20 Length to face of forks i2 2550 mm 1.21 Overall width b1 1200 mm 1.22 Forks section / width / length s / e / l 40 mm x 125 mm x 1150 mm 1.23 Fork carriage Sto 2328 (class/form) A/B 2 2 1.24 Fork carriage width b3 860 mm 1.31 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 1900 mm 1.34 Aisle width for 800 x 1200 pallet lengthways Ast 2100 mm 5.1 Travel speed (laden / unladen) 9 km/h-9.50 km/h 0.35 m/s-0.45 m/s 5.2 Lifting speed (laden / unladen) 9 km/h-9.50 km/h 0.35 m/s-0.45 m/s 5.3 Lowering speed (laden / unladen) 8 % / 10.50 % 8 % / 10.50 % 5.7 Gradeability (laden / unladen) 8 % / 10.50 % 8 % / 10.50 % 5.7 Gradeability (laden / u
19 Overall length 11 3710 mm 12 2560 mm 12 2560 mm 120 120 1200 mm 1200
1.20 Length to face of forks 12 2560 mm 1.21 Overall width b1 1200 mm 1.22 Forks section / width / length \$ / e / l 40 mm x 125 mm x 1150 mm 1.23 Fork carriage ISO 2328 (class/form) A/B 2 1.24 Fork carriage width b3 860 mm 1.31 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 1900 mm 1.34 Aisle width for 800 x 1200 pallet lengthways Ast 2100 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 % 5.7 Gradeability (laden / unladen) 8 % / 10.50 % 6.10 Drive motor rating \$2.60 min 10 kW
1.21 Overall width Incompany Incom
1.22 Forks section / width / length s / e / l 40 mm x 125 mm x 1150 mm 1.23 Fork carriage ISO 2328 (class/form) A/B 2 1.24 Fork carriage width b3 860 mm 1.31 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 1900 mm 1.34 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) 8 % / 10.50 % 5.7 Gradeability (laden / unladen) 8 % / 10.50 % 5.10 Service brake Hydraulic Engine 6.1 Drive motor rating \$2.60 min 10 kW
Fork carriage ISO 2328 (class/form) A/B 2
1.24 Fork carriage width
Simple S
3.32 Ground clearance at centre of wheelbase m2 130 mm 3.33 Aisle Width for pallets 1000 x 1200 crossways Ast 1900 mm 3.34 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) 8 % / 10.50 % 5.7 Gradeability (laden / unladen) 8 % / 10.50 % 5.10 Service brake Hydraulic Engine 6.1 Drive motor rating \$2 60 min 10 kW
Ast 1900 mm 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 % 6.10 Service brake Hydraulic Engine 6.1 Drive motor rating \$2 60 min 100 mm Ast 2100 mm 9 km/h-9.50 km/h
Ast 2100 mm Performances
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
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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
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 10 kW
5.7 Gradeability (laden / unladen) 8 % / 10.50 % 5.10 Service brake Hydraulic Engine 6.1 Drive motor rating \$2.60 min 10 kW
5.10 Service brake Hydraulic Engine 6.1 Drive motor rating \$2.60 min 10 kW
Engine 6.1 Drive motor rating \$2 60 min 10 kW
Drive motor rating \$2.60 min 10 kW
•
6.3 Battery according to DIN 43531/35/36 A, B, C DIN 43595
6.4 Battery voltage / capacity 48 V / 750 Ah
6.5 Battery weight (+/- 5%) 1135 kg
Miscellaneous Miscellaneous
8.3 Oil flow rate for attachments 25 l/min
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

EMA II 20 - Dimensional drawing



Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 42	FLT 45	FLT 50	FLT 56	FLT 60	FLT 66	FLT 72	FLT 76	FLT 80	FLT 86	FLT 90	FLT 95	FLT 102
α - Mast/fork carriage tilt, forward	٠	1	1	1	1	1	1	1	1	1	1	1	1	1
β - Mast/fork carriage tilt, backward	٠	3	3	3	3	3	3	3	3	3	3	3	3	3
h1 - Mast lowered height	mm	2300	2410	2570	2750	2900	3150	3400	3590	3720	4020	4150	4500	4690
h2 - Mast free lift	mm	1480	1590	1750	1930	2080	2330	2580	2770	2900	3200	3330	3650	3870
h3 - Mast lifting height	mm	4200	4530	5010	5550	6000	6600	7200	7620	8010	8610	9000	9500	10200
h4 - Mast extended height	mm	5030	5360	5840	6380	6830	7430	8030	8450	8840	9440	9830	10475	11175
Residual capacity with integrated side shift at max heigth	kg	1800	1700	1600	1500	1400	1300	1200	1150	1080	1000	1000	900	750





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