Technical sheet:

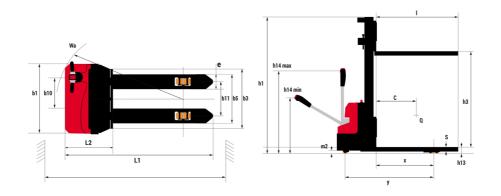
ES 112 EASY





Model Name Estitate Power source Electrical Ele		Technical characteristics		Metric
Bectical	1.1	Manufacturer		MANITOU
	1.2	Model Name		ES 112 Easy
				Electrical - Lithium
1.5				Pedestrian
1.6		· · · · ·	0	1200 kg
1.8 Distance from Load backrest to center of rear axie x 798 m 1.09 Wheelbase y 1.198 m 1.09 m 1.09 m 1.09 m 1.09 m 1.09 m 1.09 m 1.00				600 mm
1.9 Wheelbase			X	798 mm
			٧	1198 mm
Service weight				-
Weight on front axie (laden) / rear axie (laden) 645 kg / 1" 2.3 Weight on front axie (Uniaden) / rear axie (Uniaden) 448 kg / 1 Wheels	2.1			610 kg
Weight on front axie (Unladen) / rear axie (Unladen) 448 kg / 1				645 kg / 1165 kg
				448 kg / 162 kg
3.3 Number of load wheels / Size of load wheels 4 / 80x 3.4 Number of stabilizer wheels / Size of the stabilizer wheels 2 / 4 / 80x 3.5 Number of forith wheels / Size of drive wheels 2 / 4 / 80x 3.5.2 Number of drive wheels / Size of drive wheels 1 / 12 / 10x 3.6 Front wheel gauge b10 566 fm 3.7 Rear wheel gauge b10 396 fm 0 Umbersions Umbersions 11 1 / 100 fm 4.15 Fork height in low position h13 8 5 mm 4.19 Overall length 11 1 / 100 fm 4.20 Length to face of forks 12 560 mm 4.21 Overall width b1 8 00 mm 4.22 Fork septed width b1 8 00 mm 4.25 Fork septed width b3 6 80 mm 4.24 Fork septed width b3 6 80 mm 4.25 Forks spread b5 5 560 mm 4.21 Ground clearance at centre of wheelbase m2 2 5 mm 4.	3 1			Polyurethane cushion
3.4 Number of stabilizer wheels / Size of the stabilizer wheels 1 / 80 x 3.5 Number of front wheels / Ize of drive wheels 2 / 4 3.6 Front wheel gauge b10 566 m 3.7 Rear wheel gauge b11 396 m 4.15 Fork height in low position h13 85 mm 4.19 Overall length 11 1700 m 4.20 Length to face of forks 12 560 m 4.21 Overall width b1 80 mm / 170 mm 4.22 Fork section / width / length 5 / e / 1 60 mm / 170 mm 4.21 Forks section / width / length 5 / e / 1 60 mm / 170 mm 4.22 Forks section / width / length 5 / e / 1 60 mm / 170 mm 4.23 Forks septed 5 / 500 m 5 / 60 mm 1 20 mm / 120 mm 4.25 Forks spread b5 5 / 60 mm 1 2 mm 2 / 2 / 2 / 2 mm <td< td=""><td></td><td></td><td></td><td>4 / 80x64</td></td<>				4 / 80x64
3.5 Number of front wheels / rar wheels 2 / 4				1 / 80 x 64
1/210x 1				
3.6 Front wheel gauge b10 566 m 3.7 Rear wheel gauge b11 396 m Uimensions 4.15 Fork height in low position h13 85 mr 4.19 Overall length 11 1700 m 4.20 Length to face of forks 12 560 m 4.21 Length to face of forks 12 60 mm / 170 mm 4.22 Forks section / width / length \$ / e / I 60 mm / 170 mm 4.24 Fork carriage width b3 680 m 4.25 Forks spread b5 560 m 4.31 Ground clearance below mast m1 26 mr 4.32 Ground clearance at centre of wheelbase m2 26 mr 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 216 m 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 216 m 4.35 Tuming radius Wa 1402 m 5.1 Travel speed (laden / unladen) Wa 1402 m 5.2 Liffing speed (laden / unladen) 4.50 km/h / o 0.11 m/s / o 5.3 Lowering speed (laden / unladen) 6 x / 11 6 x / 11 5.1 Drive motor rating 25 60 min 6 x / 11 6 x /				1/210x70
3.7 Rear wheel gauge bilt 1 3.96 m Dimensions 4.15 Fork height in low position h13 8.5 mm 4.19 Overall length 11 1700 m 4.20 Length to face of forks 12 560 m 4.21 Overall width b1 800 m 4.22 Forks section / width / length b3 680 m 4.24 Fork carriage width b3 680 m 4.25 Forks spread b5 560 m 4.31 Ground clearance below mast m1 26 mm 4.32 Ground clearance at centre of wheelbase m2 2 e m 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2226 m 4.34 Aisle width for pallets 1000 x 1200 crossways Ast 2226 m 4.35 Tuming radius Wa 1402 m 5.1 Travel speed (laden / unladen) Wa 1402 m 5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 Lowering speed (laden / unladen) 0.12 m/s / 0 5.1 Travel speed (laden / unladen) 6 % / 10 5.1 Service brake 6 % / 10 6.1 Diffe motor rating at S3 1			h10	566 mm
Dimensions				396 mm
4.15 Fork height in low position h13 85 mr 4.19 Overall length i1 1700 mr 4.20 Length to face of forks i2 560 m 4.21 Coverall width b1 800 m 4.22 Forks section / width / length s / e / l 60 mm / 170 mm 4.24 Fork carriage width b3 680 m 4.25 Forks spread b5 560 m 4.21 Ground clearance below mast m1 26 mr 4.22 Fork spread b5 560 m 4.23 Ground clearance at centre of wheelbase m2 26 mr 4.24 Aisle width for pallets 1000 x 1200 crossways Ast 2226 m 4.33 Aisle width for pallets 1000 x 1200 crossways Ast 2226 m 4.35 Tuming radius Wa 1402 m 7 Performances Wa 1402 m 5.1 Travel speed (laden / unladen) 4.50 km/h / 5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 <td>0.7</td> <td></td> <td></td> <td>535 mm</td>	0.7			535 mm
11	4 15		h13	85 mm
4.20 Length to face of forks 12 560 m 4.21 Overall width b1 800 m 4.22 Forks section / width / length s / e / l 60 mm / 170 mm 4.24 Fork carriage width b3 680 m 4.25 Forks spread b5 560 m 4.31 Ground clearance below mast m1 26 mm 4.32 Ground clearance at centre of wheelbase m2 26 mm 4.33 A isle Width for pallets 1000 x 1200 crossways A st 216 mm 4.34 A isle width for 900 x 1200 pallet lengthways A st 216 mm 4.35 Tuming radius Wa 1402 m Performances Wa 1402 m 5.1 Travel speed (laden / unladen) Wa 1402 m 5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 Lowering speed (laden / unladen) 0.12 m/s / 0 5.8 Max Gradeability (laden / unladen) 0.12 m/s / 0 5.10 Service brake Electro ma 6.1 Drive motor rating \$2.50 min 0.55 k 6.2 Lift motor rating \$2.50 min 0.55 k 6.2 Lift motor rating \$2.50 min 0.55 k 6.5 Battery voltage / capacity				1700 mm
A.21 Overall width Def Battery weight Forks section / width / length S / e / l G0 mm / 170 mm		-		560 mm
Forks section / width / length		-		800 mm
Fork carriage width				60 mm / 170 mm / 1150 mm
Forks spread				680 mm
4.31 Ground clearance below mast m1 26 mm 4.32 Ground clearance at centre of wheelbase m2 26 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2226 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2169 mm 4.35 Tuming radius Wa 1402 mm Performances 5.1 Travel speed (laden / unladen) 4.50 km/h / 5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 Lowering speed (laden / unladen) 0.12 m/s / 0 5.8 Max Gradeability (laden / unladen) 6 % / 10 5.10 Service brake Electro ma Engine 6.1 Drive motor rating \$2.60 min 0.05 km 6.2 Lift motor rating at \$3.15% 2.00 km 6.4 Battery voltage / capacity 2.20 km 6.4 Battery voltage / capacity 18 km 6.5 Battery weight (+/-5%) 18 km 6.5 Battery weight (y-/-5%) 18 km 6.5 Miscellaneous 18 ty				
A.32 Ground clearance at centre of wheelbase m2 26 mm A.33 Aisle Width for pallets 1000 x 1200 crossways Ast 2226 mm A.34 Aisle width for 800 x 1200 pallet lengthways Ast 2169 mm A.35 Tuming radius Wa 1402 mm Performances		•		
Ast 2226 m Ast 2226 m Ast 2226 m Ast 2169 m Ast 2169 m Ast 2169 m Performances 5.1 Travel speed (laden / unladen) 5.2 Lifting speed (laden / unladen) 5.3 Lowering speed (laden / unladen) 5.8 Max Gradeability (laden / unladen) 5.10 Service brake Engine 6.1 Drive motor rating \$2 60 min 6.2 Lift motor rating at \$3 15% 6.4 Battery voltage / capacity Battery technology 6.5 Battery weight (+/- 5%) Miscellaneous 8.1 Type of drive control Ast 2226 m				
4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2169 m 4.35 Tuming radius Wa 1402 m Performances 5.1 Travel speed (laden / unladen) 4.50 km/h / 5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 Lowering speed (laden / unladen) 6 % / 10 5.8 Max Gradeability (laden / unladen) 6 % / 10 5.10 Service brake Electro ma Engine 6.1 Drive motor rating \$2 60 min 0.65 k 6.2 Lift motor rating at \$3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous 10 C 8.1 Type of drive control DC				
4.35 Tuming radius Wa 1.402 mg Performances 5.1 Travel speed (laden / unladen) 4.50 km/h / 5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 Lowering speed (laden / unladen) 6.6 % / 10 5.8 Max Gradeability (laden / unladen) 6.6 % / 10 5.10 Service brake Electro ma Engine 6.1 Drive motor rating \$2.60 min 0.65 k 6.2 Lift motor rating at \$3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous DC		· · · · · · · · · · · · · · · · · · ·		
Performances 5.1 Travel speed (laden / unladen) 4.50 km/h / 5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 Lowering speed (laden / unladen) 6 % / 10 5.8 Max Gradeability (laden / unladen) 6 % / 10 5.10 Service brake Electro ma Engine 6.1 Drive motor rating \$2 60 min 0.65 k 6.2 Lift motor rating at \$3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous DC 8.1 Type of drive control DC				
5.1 Travel speed (laden / unladen) 4.50 km/h / 5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 Lowering speed (laden / unladen) 0.12 m/s / 0 5.8 Max Gradeability (laden / unladen) 6 % / 10 5.10 Service brake Electro ma Engine 6.1 Drive motor rating \$2 60 min 0.65 k 6.2 Lift motor rating at \$3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithum 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous DC			vva	1402 111111
5.2 Lifting speed (laden / unladen) 0.11 m/s / 0 5.3 Lowering speed (laden / unladen) 0.12 m/s / 0 5.8 Max Gradeability (laden / unladen) 6 % / 10 5.10 Service brake Electro ma Engine 6.1 Drive motor rating \$2 60 min 0.65 k 6.2 Lift motor rating at \$3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithum 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous DC	5.1			4.50 km/h / 5 km/h
5.3 Lowering speed (laden / unladen) 0.12 m/s / 0 5.8 Max Gradeability (laden / unladen) 6 % / 10 5.10 Service brake Electro ma Engine 6.1 Drive motor rating S2 60 min 0.65 k 6.2 Lift motor rating at S3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous DC 8.1 Type of drive control DC				
5.8 Max Gradeability (laden / unladen) 6 % / 10 5.10 Service brake Electro ma Engine 6.1 Drive motor rating \$2 60 min 0.65 k 6.2 Lift motor rating at \$3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous DC 8.1 Type of drive control DC				
Electro ma Engine Electro ma 6.1 Drive motor rating \$2 60 min 0.65 k 6.2 Lift motor rating at \$3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous DC 8.1 Type of drive control DC				
Engine Image: Company of the motor rating S2 60 min Image: Company of the motor rating S2 60 min Image: Company of S2 60 min <td></td> <td></td> <td></td> <td></td>				
6.1 Drive motor rating \$2 60 min 0.65 k 6.2 Lift motor rating at \$3 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous 8.1 Type of drive control DC	5.10			Liecuo magnetic
6.2 Lift motor rating at \$33 15% 2.20 k 6.4 Battery voltage / capacity 24 V / 60 Battery technology Lithium- 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous 8.1 Type of drive control DC	6.1	-		0.65 kW
6.4 Battery voltage / capacity 24 V / 6t Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous 8.1 Type of drive control DC				
Battery technology Lithium 6.5 Battery weight (+/- 5%) 18 kg Miscellaneous Type of drive control DC				
6.5 Battery weight (+/- 5%) 18 kg Miscellaneous 8.1 Type of drive control DC	6.4			
Miscellaneous 8.1 Type of drive control DC	6.5			
8.1 Type of drive control DC	0.5			18 кд
	0.1			22
8.4 Sound level at the driver's ear according to DIN 12 053 65 dB		,		DC 65 dB

ES 112 Easy - Dimensional drawing



Characteristics of masts and residual capacities

Central Cylinder Duplex (CCD)		CCD 27	CCD 36
h1 - Mast lowered height	mm	1924	2458
h3 - Mast lifting height	mm	2700	3600
h4 - Mast extended height	mm	3274	4258
Residual capacity at max height	kg	1000	600
Height at max capacity	mm	2500	2500

Central Cylinder Simplex (CCS)		CCS 11	CCS 15
h1 - Mast lowered height	mm	1716	1992
h2 - Mast free lift	mm	1100	1475
h3 - Mast lifting height	mm	1100	1500
h4 - Mast extended height	mm	1716	2015
Residual capacity at max height	kg	1200	1200
Height at max capacity	mm	1100	1500





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