Technical sheet:

ER 12



Manifacturier Manifacturier Manifacturier EF12		Technical characteristics		Metric	
Power source	1.1	Manufacturer		Manitou	
Max. capacity	1.2	Model Name		ER 12	
Max. Capacity	1.3	Power source		Electrical - Lead	
Code center of gravity	1.4	Operator type		Seated	
1.0 Wheelbase Yes 1.338 mm 1.39 Wheelbase Yes 1.378 mm Yes 1.378 mm Yes 1.378 mm Yes Yes 1.378 mm Yes Ye	1.5	Max. capacity	Q	1200 kg	
	1.6	Load center of gravity	С	600 mm	
	1.8	Load distance, centre of drive axle to fork	х	335 mm	
2.1 Service weight 2.580 kg Wheels Wukkollan 3.1. Tiles type Wukkollan 3.2. Number of floud wheels - Size of flord wheels 1 x 355 x 155 3.3. Number of front wheels / rear wheels 2 x 220 x 85 3.5. Number of front wheels / rear wheels 1 / 2 3.6. Front wheel gauge 1011 95 mm 0 Dimensions 1 20 mm 4.8 Sak height/stank height h7 1077 mm 4.9 Userglund height h1 2413 mm 4.20 Length b face of forks 12 1285 mm 4.21 Overall width 51 110 mm 4.22 Foks section / width / length 51 40 mm x 100 mm / 1150 mm 4.24 Overall width 51 40 mm x 100 mm / 1150 mm 4.25 Foks section / width / length 51 40 mm x 100 mm / 1150 mm 4.26 Di Islance between wheel amms/loading surfaces 54 900 mm 4.27 Widnow foks min. / max. 55 <td< td=""><td>1.9</td><td>Wheelbase</td><td>у</td><td>1378 mm</td></td<>	1.9	Wheelbase	у	1378 mm	
Wheels		Weight			
Number of drive wheels - Size of drive wheels 1 x 355 x 155 3.3 Number of front wheels - Size of load wheels 2 x 220 x 85 3.5 Number of front wheels - Fran wheels 1 / 2 3.6 Front wheel gauge bil 0 mm 3.7 Rear wheel gauge bil 995 mm	2.1	Service weight		2580 kg	
Number of drive wheels - Size of drive wheels 1 x 355 x 155 2 x 220 x 85 2 x 220 x 85 3.5 Number of load wheels - Size of load wheels 7 x 3 wheels 1 / 2 x 220 x 85 1 / 2 3.5 Number of load wheels 7 x ar wheels 1 / 2 1 / 2 3.6 Font wheel gauge bild 995 mm 995 mm 1 995 mm 1 1 1 1 1 1 1 1 1		Wheels			
3.3 Number of load wheels - Size of load wheels 1 / 2 3.5 Number of front wheel sugue b10 0 mm 3.7 Rear wheel gauge b10 0 mm 4.8 Seat heightystand height h7 1 077 mm 4.19 Overall length 11 2 413 mm 4.20 Length to face of forks 12 1 263 mm 4.21 Overall width 5 / e / l 40 mm x 100 mm / 1150 mm 4.22 Forks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.22 Forks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.23 Forks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.24 Forks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.25 Forks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.25 Oistance between wheel arms/loading surfaces b5 3 16 mm / 697 mm 4.25 Width over forks min. / max. b5 3 16 mm / 697 mm 4.25 Width over fooks min. / max.	3.1	Tires type		Vulkollan	
3.5 Number of front wheels / rear wheels 1 / 2 3.6 Front wheel gauge b10 0 mm 4.8 Seat wheel gauge b10 0 mm 4.8 Seat height/sand height h7 1077 mm 4.9 Length to face of forks 11 2413 mm 4.20 Length to face of forks 12 12263 mm 4.21 Overall width 5 / 2 40 mm x 100 mm / 1150 mm 4.22 Fork section / width / length 5 / 2 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2 / 2 20 mm x 100 mm / 1150 mm 4.24 Distance between wheel amm?loading surfaces b4 900 mm 4.25 Officion cleannee at center of wheelbase m2 70 mm 4.21 Aside width for 1000 x 1200 pallet lengthways b5 316 mm / 697 mm 4.22 Fork central centre of wheelbase m2 70 mm 4.23 Aside width for 1000 x 1200 pallet lengthways m6 2 2 4.3 Aside width for 1000 x 1200 pallet lengthways m6 2 2	3.5.2	Number of drive wheels - Size of drive wheels		1 x 355 x 155	
3.6 Front wheel gauge b10 0 mm 3.7 Rear wheel gauge b11 995 mm 4.8 Seat height/stand height h7 1077 mm 4.19 Overall length 11 2413 mm 4.20 Length to face of forks 12 1263 mm 4.21 Overall width 5 / 2 40 mm x 100 mm 4.22 Fork carriage ISO 2328 (class/form) A/B 5 / 2 2A 4.23 Fork carriage ISO 2328 (class/form) A/B 2 2A 4.24 Distance between wheel amms/loading surfaces b5 316 mm / 697 mm 4.25 Vidid over forks min. / max. b5 316 mm / 697 mm 4.25 Vidid over forks min. / max. b5 316 mm / 697 mm 4.25 Vidid over forks min. / max. b6 30 mm 4.21 A isle width for 1000 x 1200 pallet lengthways Ast 2254 mm 4.23 A isle width for 800 x 1200 pallet lengthways Ast 22751 mm 5.7 Turning radius Max 1520 mm 5.2 Li	3.3	Number of load wheels - Size of load wheels		2 x 220 x 85	
3.7 Rear wheel gauge b11 995 mm 10 Olmensions Commention 4.8 Seak height/stand height h7 1077 mm 4.90 Overall length I1 2413 mm 4.20 Length of face of forks I2 2 1263 mm 4.21 Fork carriage ISO 2328 (class/form) A/B \$ s / e / 40 mm x 100 mm / 1150 mm 4.22 Fork carriage ISO 2328 (class/form) A/B \$ f 90 mm 22A 4.25 Fork carriage ISO 2328 (class/form) A/B \$ f 90 mm 42 4.26 Fork carriage ISO 2328 (class/form) A/B \$ f 90 mm 4.27 Fork carriage ISO 2328 (class/form) A/B \$ f 90 mm 4.28 Ground clearance at centre of wheelbase \$ f 90 mm 4.29 Ground clearance at centre of wheelbase \$ f 90 mm 4.31 A sile width for 800 x 1200 pallet lengthways \$ f 91 mm 4.32 A sile width for 800 x 1200 pallet lengthways \$ f 91 mm 4.35 Turning radiu \$ f 12.30	3.5	Number of front wheels / rear wheels		1/2	
Dimensions	3.6	Front wheel gauge	b10	0 mm	
4.8 Seat height/stand height h7 1077 mm 4.19 Overall length 11 2.413 mm 4.20 Length to face of forks 12 1658 mm 4.21 Overall width b1 1120 mm 4.22 Fork carriage ISO 2328 (class/form) A/B s e f l 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2A 2A 4.26 Distance between wheel arms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.26.2 Giound clearance at centre of wheelbase m2 70 mm 4.27 Giound clearance at centre of wheelbase m2 70 mm 4.32 Aisle width for 1000 x 1200 pallet lengthways Ast 2251 mm 4.35 Timing radius Ast 2751 mm 4.35 Timing radius h6 2205 mm 4.36 Height of overhead guard (cabin) h6 2205 mm 5.2 Tirling speed (laden / unladen) 5.50 m/s 5.50 m/s	3.7	Rear wheel gauge	b11	995 mm	
4.19 Overall length face of forks 11 2413 mm 4.20 Length to face of forks 12 1263 mm 4.21 Overall width b1 1120 mm 4.22 Forks section / width / length s / e/ I 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2292 (class/form) A/B 2A 2A 4.26 Distance between wheel amms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.29 Ground clearance at centre of wheelbase m2 70 mm 4.31 Aisle width for 1000 x 1200 pallet lengthways Ast 2594 mm 4.32 Aisle width for 300x 1 200 pallet lengthways Ast 2575 mm 4.33 Aisle width for 300x 1 200 pallet lengthways Ast 2575 mm 4.34 Aisle width for 300x 1 200 pallet lengthways Ast 2575 mm 4.37 Tuming radius Wa 1539 mm 4.39 Tuming radius Wa 1539 mm 5.1 Tervel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m		Dimensions			
	4.8	Seat height/stand height	h7	1077 mm	
4.21 Overall width Description bit 1120 mm 4.22 Fork searinge ISO 2238 (class/from) A/B s/e/I 40 mmx 100 mm/ 150 mm 4.23 Fork carriage ISO 2238 (class/from) A/B b4 900 mm 4.26 Distance between wheel amms/loading surfaces b5 316 mm / 697 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 A sile width for 800 x 1200 pallet lengthways Ast 2751 mm 4.34 A sile width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) Wa 1598 mm 4.7 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.1 Reach speed (with load / without load) 0.58 m/s / 0.55 m/s 5.1 Reach speed (with load / without load) 0.58 m/s / 0.55 m/s 5.1 Engline 1.1 kW	4.19	Overall length	l1	2413 mm	
4.22 Forks section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.26 Distance between wheel ams/loading surfaces b4 900 mm 4.25.1 Width over flook smin. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 25694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Wa 1598 mm 4.7 Height of overhead guard (cabin) Wa 1598 mm 4.7 Height of overhead guard (malden) Wa 1500 m/s 10.55 m/s 5.2 Travel speed (laden / unladen) 5.0 12.30 km/h 12.50 km/h 5.2 Lowering speed (laden / unladen) 5.0 0.50 m/s 10.55 m/s 5.3 Lowering speed (with load / without load) 0.20 m/s 10.20 m/s 0.20 m/s 10.20 m/s 5.7 Gradeability (laden / unladen) 5.0 Electric 6.1 Drive motor rating \$2.60 min 5.0 km/h 5.0 km/h <	4.20	Length to face of forks	12	1263 mm	
4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.26 Distance between wheel arms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Ma 1598 mm 4.7 Height of owerhead guard (cabin) h6 2205 mm 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.4 Reach speed (with load / without load) 0.50 m/s / 0.65 m/s 5.7 Gradeability (laden / unladen) 0.50 m/s / 0.65 m/s 5.7 Gradeability (laden / unladen) 0.50 m/s / 0.65 m/s 6.7 Gradeability (laden / unladen) 0.50 m/s / 0.50 m/s 6.7 Gradeability	4.21	Overall width	b1	1120 mm	
4.26 Distance between wheel amms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase 270 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2594 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ma 1598 mm 4.35 Tuming radius Wa 1598 mm 4.7 Helght of overhead guard (cabin) h6 2205 mm 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Pervice brake Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C 10 JIN 43531 B </td <td>4.22</td> <td>Forks section / width / length</td> <td>s / e / l</td> <td>40 mm x 100 mm / 1150 mm</td>	4.22	Forks section / width / length	s / e / l	40 mm x 100 mm / 1150 mm	
4.25.1 Width ower forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Alsie width for 1000 x 1200 pallet lengthways 2694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm 4.7 Performances 12.30 km/h / 12.50 km/h 5.1 Travel speed (laden / unladen) 0.55 m/s / 0.55 m/s 0.55 m/s / 0.55 m/s / 0.55 m/s 5.2 Lowering speed (laden / unladen) 0.58 m/s / 0.55 m/s 0.50 m/s / 0.20 m/s / 0.20 m/s 5.3 Lowering speed (with load / without load) 0.20 m/s / 0.20 m/s 0.20 m/s / 0.20 m/s 5.4 Reach speed with load / without load) 0.20 m/s / 0.20 m/s 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 5.90 kW 11.0% 5.1 Engine 11.kW 6.2 Lift motor rating s2.60 min 5.90 kW 6.2 Lift motor rating at S3 15% 11.kW 6.3 Battery woltape / capacity 48 V / 31	4.23	Fork carriage ISO 2328 (class/form) A/B		2A	
4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm Performances 5.1 Travel speed (laden / unladen) 5.0 12.30 km/h 12.50 km/h 5.2 Liffing speed (laden / unladen) 0.50 m/s / 0.55 m/s 5.3 Lowering speed (laden / without load) 0.50 m/s / 0.50 m/s 5.4 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.50 m/s / 0.50 m/s 5.1 Pairce brake Electric 6.1 Drive motor rating \$2.60 min 5.00 kW 6.2 Lift motor rating \$2.50 min 11 kW 6.3 Battery voltage / capacity 0.50 kW 6.4 Battery	4.26	Distance between wheel arms/loading surfaces	b4	900 mm	
4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2694 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Turning adius Wa 1598 mm 4.7 Helght of overhead guard (cabin) h6 2205 mm Performances 5.1 Tavel speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (laden / unladen) 0.50 m/s / 0.58 m/s / 0.55 m/s 5.4 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.1 Service brake Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating \$2.60 min 5.90 kW 6.3 Battery according to DIN 43531/35/36 A, B, C 5.90 kW 6.4 Battery voltage / capacity 4.8 V / 310 Ah 6.4 Battery weight (+/- 5%) 7.30 kg 6.7 Miscellaneous 5.90 kW 8.1 Type of drive control 5.90 kW 8.	4.25.1	Width over forks min. / max.	b5	316 mm / 697 mm	
4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2751 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm Ending Speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.1 Service brake Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery voltage / capacity 48 V / 310 Ah 6.4 Battery woltage / capacity 48 V / 310 Ah 6.4 Battery weight (+/- 5%) 730 kg Miscellaneous 1 Electronic 8.3 Oil flow rate for attachments 25 1/min	4.32	Ground clearance at centre of wheelbase	m2	70 mm	
4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.50 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.55 m/s 5.10 Service brake Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating \$2.60 min 5.90 kW 6.3 Battery according to DIN 43531/35/36 A, B, C 11 kW 6.3 Battery voltage / capacity 48 V / 310 Ah 6.4 Battery weight (+/- 5%) 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 7.50 km/s 6.7 Hiscellaneous 10 km/s 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments <	4.33	Aisle width for 1000 x 1200 pallet lengthways		2694 mm	
4.7 Height of overhead guard (cabin) h6 2205 mm Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (with load / without load) 0.20 m/s / 0.20 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 2 Electric 5.10 Service brake Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.2 Lift motor rating at \$3.15% 5.90 kW 6.4 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2751 mm	
Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (with load / without load) 0.20 m/s / 0.20 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	4.35	Turning radius	Wa	1598 mm	
5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (with load / without load) 0.58 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric 6.1 Drive motor rating \$2 60 min 5.90 kW 6.2 Lift motor rating at \$3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 5.90 kW 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	4.7	Height of overhead guard (cabin)	h6	2205 mm	
5.2 Lifting speed (laden / unladen) 0.50 m/s / 0.65 m/s 5.3 Lowering speed (with load / without load) 0.58 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2 60 min 5.90 kW 6.2 Lift motor rating at \$3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min		Performances			
5.3 Lowering speed (laden / unladen) 0.58 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2 60 min 5.90 kW 6.2 Lift motor rating at \$3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	5.1	Travel speed (laden / unladen)		12.30 km/h / 12.50 km/h	
5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	5.2	Lifting speed (laden / unladen)		0.50 m/s / 0.65 m/s	
5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	5.3	Lowering speed (laden / unladen)		0.58 m/s / 0.55 m/s	
Envice brake Electric Engine Colspan="2">Co	5.4.1	Reach speed (with load / without load)		0.20 m/s / 0.20 m/s	
Engine Image: Composition of the property of the prope	5.7	Gradeability (laden / unladen)		7.50 % / 11.10 %	
6.1 Drive motor rating \$2 60 min 5.90 kW 6.2 Lift motor rating at \$3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	5.10	Service brake		Electric	
6.2 Lift motor rating at S3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min		Engine			
6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	6.1	Drive motor rating S2 60 min		5.90 kW	
6.4 Battery voltage / capacity 48 V / 310 Ah 6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	6.2	Lift motor rating at S3 15%		11 kW	
6.5 Battery weight (+/- 5%) 730 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min	6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43531 B	
Miscellaneous8.1Type of drive controlElectronic8.3Oil flow rate for attachments25 l/min	6.4	Battery voltage / capacity		48 V / 310 Ah	
8.1Type of drive controlElectronic8.3Oil flow rate for attachments25 l/min	6.5	Battery weight (+/- 5%)		730 kg	
8.3 Oil flow rate for attachments 25 l/min		Miscellaneous			
	8.1	Type of drive control		Electronic	
8.4 Sound level at the driver's ear according to DIN 12 053 57.40 dB	8.3	Oil flow rate for attachments		25 l/min	
	8.4	Sound level at the driver's ear according to DIN 12 053		57.40 dB	

ER 12 - Dimensional drawing



Characteristics of masts and residual capacities

Free Lift Triplex (FLT)		FLT 48	FLT 54	FLT 57	FLT 63	FLT 68
α - Mast/fork carriage tilt, forward °		3	3	3	3	3
β - Mast/fork carriage tilt, backward	۰	1	1	1	1	1
h1 - Mast lowered height	mm	2140	2340	2440	2640	2790
h2 - Mast free lift	mm	1600	1800	1900	2100	2250
h3 - Mast lifting height	mm	4800	5400	5700	6300	6800
h4 - Mast extended height	mm	5380	5980	6280	6880	7330
Residual capacity with integrated side shift at max heigth	kg	1200	1200	1200	1000	700





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