Technical sheet:

ER 12



Manufacturer Model Name Power source Operator type Max. capacity Load center of gravity Number of drive wheels - Size of drive wheels Number of front wheels - Size of load wheels Number of Front wheel syrear wheels Front wheel gauge Pimensions Seat height/stand height Overall length Length to face of forks Overall width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Midel width for 1000 x 1200 pallet lengthways Aisle width for 1000 x 1200 pallet lengthways	Q C X y	Manitou ER 12 Electrical - Lead Seated 1200 kg 600 mm 335 mm 1378 mm	
Power source Operator type Max. capacity Load center of gravity Load distance, centre of drive axle to fork Wheelbase Weight Service weight Wheels Tires type Number of drive wheels - Size of drive wheels Number of load wheels - Size of load wheels Number of front wheels / rear wheels Front wheel gauge Rear wheel gauge Dimensions Seat height/stand height Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Aisle width for 1000 x 1200 pallet lengthways	C X	Electrical - Lead Seated 1200kg 600mm 335mm	
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1 Service weight Wheels 1 Tires type 5.2 Number of drive wheels - Size of drive wheels Number of load wheels - Size of load wheels Number of front wheels / rear wheels Front wheel gauge Plimensions 8 Seat height/stand height Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Aisle width for 1000 x 1200 pallet lengthways			
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Number of front wheels / rear wheels Front wheel gauge Rear wheel gauge Dimensions Seat height/stand height Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways		1 x 355 x 155	
Front wheel gauge Rear wheel gauge Dimensions Seat height/stand height Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways		2 x 220 x 85	
Pimensions Seat height/stand height Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways		1/2	
Pimensions Seat height/stand height Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	b10	0 mm	
Dimensions Seat height/stand height Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	b11	995 mm	
Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways			
Overall length Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	h7	1077 mm	
Length to face of forks Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	l1	2413 mm	
Overall width Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	12	1263 mm	
Forks section / width / length Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	b1	1120 mm	
Fork carriage ISO 2328 (class/form) A/B Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	s / e / l	40 mm x 100 mm / 1150 mm	
Distance between wheel arms/loading surfaces Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways		2A	
5.1 Width over forks min. / max. Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	b4	900 mm	
Ground clearance at centre of wheelbase Aisle width for 1000 x 1200 pallet lengthways	b5	316 mm / 697 mm	
Aisle width for 1000 x 1200 pallet lengthways	m2	70 mm	
, , ,		2694 mm	
	Ast	2751 mm	
Tuming radius	Wa	1598 mm	
7 Height of overhead guard (cabin)	h6	2205 mm	
Performances			
1 Travel speed (laden / unladen)		12.30 km/h / 12.50 km/h	
2 Lifting speed (laden / unladen)		0.50 m/s / 0.65 m/s	
3 Lowering speed (laden / unladen)		0.58 m/s / 0.55 m/s	
I.1 Reach speed (with load / without load)		0.20 m/s / 0.20 m/s	
7 Gradeability (laden / unladen)		7.50 % / 11.10 %	
10 Service brake		Electric	
Engine			
1 Drive motor rating S2 60 min		5.90 kW	
2 Lift motor rating at \$3 15%		11 kW	
Battery according to DIN 43531/35/36 A, B, C		DIN43531 B	
4 Battery voltage / capacity		48 V / 310 Ah	
5 Battery weight (+/- 5%)		730 kg	
Miscellaneous		, 00 kg	
1 Type of drive control		Electronic	
3 Oil flow rate for attachments		25 I/min	
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	۰	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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