Technical sheet:

ER 12



	Technical characteristics		Metric	
1.1	Manufacturer		Manitou	
1.2	Model Name		ER 12	
1.3	Power source		Electrical	
1.4	Operator type		Seated	
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	X	335 mm	
1.9	Wheelbase	у	1378 mm	
	Weight			
2.1	Service weight		2580 kg	
	Wheels			
3.1	Tires type		Vulkollan	
3.5.2	Number of drive wheels - Size of drive wheels		1 x 355 x 155	
3.3	Number of load wheels - Size of load wheels		2 x 220 x 85	
3.5	Number of front wheels / rear wheels		1/2	
3.6	Front wheel gauge	b10	0 mm	
3.7	Rear wheel gauge	b11	995 mm	
	Dimensions			
4.8	Seat height/stand height	h7	1077 mm	
4.19	Overall length	l1	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 / l	40 mm x 100 mm / 1150 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		2694 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2751 mm	
4.35	Turning 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)		7.50 % / 11.10 %	
5.10	Service brake		Electric	
	Engine			
6.1	Drive motor rating S2 60 min		5.90 kW	
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	
	Oil flow rate for attachments		25 l/min	
8.3	Oil now rate for attachments		23 1/111111	

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		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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