

Technical sheet :

# ER 12



 **MANITOU**  
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer		Manitou
1.2	Model Name		ER 12
1.3	Power source		Electrical - Lead
1.4	Operator type		Seated
1.5	Max. capacity	Q	1200 kg
1.6	Load center of gravity	c	600 mm
1.8	Load distance, centre of drive axle to fork	x	335 mm
1.9	Wheelbase	y	1378 mm
<b>Weight</b>			
2.1	Service weight		2580 kg
<b>Wheels</b>			
3.1	Tires type		Polyurethane cushion
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
<b>Dimensions</b>			
4.8	Seat height/stand height	h7	1077 mm
4.19	Overall length	l1	2413 mm
4.20	Length to face of forks	l2	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
<b>Performances</b>			
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
<b>Engine</b>			
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
<b>Miscellaneous</b>			
8.1	Type of drive control		Electronic
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
$\alpha$ - Mast/fork carriage tilt, forward	°	1	3	1	1	1
$\beta$ - Mast/fork carriage tilt, backward	°	3	1	3	3	3
h1 - Mast lowered height	mm	2153	2340	2453	2653	2803
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 at max height	kg	1200		1200	1000	700
Residual capacity with integrated side shift at max height	kg	1200	1200	1200	1000	700



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