

Technical sheet :

ES 112 EASY

OXYGEN



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		MANITOU
1.2	Model Name		ES 112 Easy
1.3	Power source		Electrical - Lithium
1.4	Operator type		Pedestrian
1.5	Max. capacity	Q	2646 lb
1.6	Load center of gravity	c	24 in
1.8	Distance from Load backrest to center of rear axle	x	31 in
1.9	Wheelbase	y	47 in
	Weight		
2.1	Service weight		1345 lb
2.2	Weight on front axle (laden) / rear axle (laden)		1422 lb / 2568 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		988 lb / 357 lb
	Wheels		
3.1	Tires type		Polyurethane cushion
3.3	Number of load wheels / Size of load wheels		4 / 80x64
3.4	Number of stabilizer wheels / Size of the stabilizer wheels		1 / 80 x 64
3.5	Number of front wheels / rear wheels		2 / 4
3.5.2	Number of drive wheels / Size of drive wheels		1/210x70
3.6	Front wheel gauge	b10	22 in
3.7	Rear wheel gauge	b11	16 in
	Dimensions		
4.15	Fork height in low position	h13	3 in
4.19	Overall length	l1	67 in
4.20	Length to face of forks	l2	22 in
4.21	Overall width	b1	31 in
4.22	Forks section / width / length	s / e / l	2 in / 7 in / 45 in
4.24	Fork carriage width	b3	27 in
4.25	Forks spread	b5	22 in
4.31	Ground clearance below mast	m1	1 in
4.32	Ground clearance at centre of wheelbase	m2	1 in
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	88 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	85 in
4.35	Turning radius	Wa	55 in
	Performances		
5.1	Travel speed (laden / unladen)		3 mph / 3 mph
5.2	Lifting speed (laden / unladen)		0.36 ft/s / 0.49 ft/s
5.3	Lowering speed (laden / unladen)		0.39 ft/s / 0.39 ft/s
5.8	Max Gradeability (laden / unladen)		6 % / 10 %
5.10	Service brake		Electro magnetic
	Engine		
6.1	Drive motor rating S2 60 min		0.65 kW
6.2	Lift motor rating at S3 15%		2.20 kW
6.4	Battery voltage / capacity		24 V / 60 Ah
	Battery technology		Lithium-ion
6.5	Battery weight (+/- 5%)		40 lb
	Miscellaneous		
8.1	Type of drive control		DC
8.4	Sound level at the driver's ear according to DIN 12 053		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	in	75.7	96.8
h3 - Mast lifting height	in	106.3	141.7
h4 - Mast extended height	in	128.9	167.6
Residual capacity at max height	lb	2205	1323
Height at max capacity	in	98.4	98.4

Central Cylinder Simplex (CCS)		CCS 11	CCS 15
h1 - Mast lowered height	in	67.6	78.4
h2 - Mast free lift	in	43.3	58.1
h3 - Mast lifting height	in	43.3	59.1
h4 - Mast extended height	in	67.6	79.3
Residual capacity at max height	lb	2646	2646
Height at max capacity	in	43.3	59.1



Head Office

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

www.manitou.com



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