

Technical sheet :

ES 312 EASY

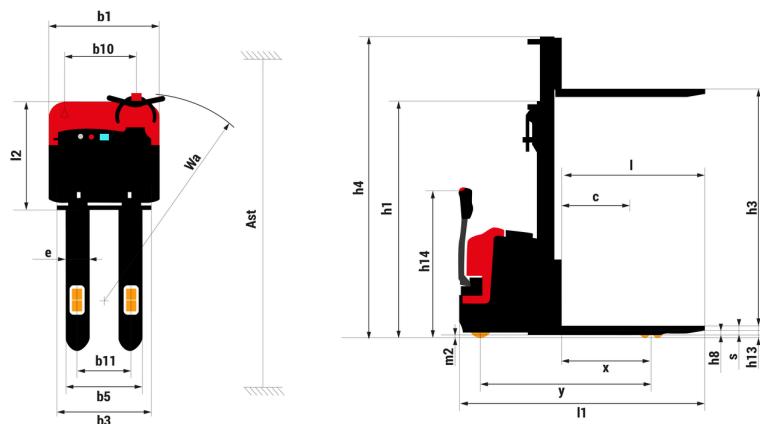
OXYGEN



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer	MANITOU	
1.2	Model Name	ES 312 Easy	
1.3	Power source	Electrical - Lithium	
1.4	Operator type	Walking alongside	
1.5	Max. capacity	1200 kg	
1.6	Load center of gravity	600 mm	
1.8	Load distance, centre of drive axle to fork (low/raised) - Low position / Raised position	x / x	700 mm / 700 mm
1.9	Wheelbase	y	1318 mm
Weight		Metric	
2.1	Service weight	1020 kg	
2.2	Weight on front axle (laden) / rear axle (laden)	625 kg / 1595 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	685 kg / 335 kg	
Wheels		Metric	
3.1	Tires type	Polyurethane cushion	
3.3	Number of load wheels / Size of load wheels	4 / 83x80	
3.4	Number of stabilizer wheels / Size of the stabilizer wheels	1 / 140x55	
3.5	Number of front wheels / rear wheels	2 / 4	
3.5.2	Number of drive wheels / Size of drive wheels	1/250x80	
3.6	Front wheel gauge	510 mm	
3.7	Rear wheel gauge	385 mm	
Dimensions		Metric	
4.10	Height of wheel arms	80 mm	
4.15	Fork height in low position	90 mm	
4.19	Overall length	1934 mm	
4.20	Length to face of forks	784 mm	
4.21	Overall width	800 mm	
4.22	Forks section / width / length	60 mm / 185 mm / 1150 mm	
4.24	Fork carriage width	680 mm	
4.25	Forks spread	570 mm	
4.32	Ground clearance at centre of wheelbase	25 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	2420 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	2390 mm	
4.35	Turning radius	1550 mm	
4.9	Height tiller min. / max.	790 mm / 1205 mm	
Performances		Metric	
5.1	Travel speed (laden / unladen)	6 km/h / 6 km/h	
5.2	Lifting speed (laden / unladen)	0.22 m/s / 0.47 m/s	
5.3	Lowering speed (laden / unladen)	0.45 m/s / 0.40 m/s	
5.8	Max Gradeability (laden / unladen)	8 % / 16 %	
5.10	Service brake	Electro magnetic	
Engine		Metric	
6.1	Drive motor rating S2 60 min	2.20 kW	
6.2	Lift motor rating at S3 15%	4.20 kW	
6.4	Battery voltage / capacity	48 V / 105 Ah	
6.5	Battery technology	Lithium-ion	
	Battery weight (+/- 5%)	65 kg	

ES 312 Easy - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	
h1 - Mast lowered height	mm
h2 - Mast free lift	mm
h3 - Mast lifting height	mm
h4 - Mast extended height	mm
Residual capacity at max height	kg
Height at max capacity	mm

FVD 30	
1990	
90	
3000	
3490	
1200	
3090	

Free Lift Triplex (FLT)	
h1 - Mast lowered height	mm
h2 - Mast free lift	mm
h3 - Mast lifting height	mm
h4 - Mast extended height	mm
Residual capacity at max height	kg
Height at max capacity	mm

FLT 43	
1890	
1425	
4300	
4780	
805	
3290	

Equipment

Standard

Battery - 5.04kWh - Lithium-ion
Onboard charger - 0.96kW AC - Lithium-ion - Single-phase
Pincode - On tiller
Polyurethane tandem-load wheels

Optional

Cold environment (from -28°C (-18°F))
External charger - 2.4kW AC - Lithium-ion - Single-phase
Key switch entry
Soft polyurethane drive wheel - 75 shore



MANITOU HANDLING YOUR WORLD

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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