

Technical sheet :

# ES 312 L EASY

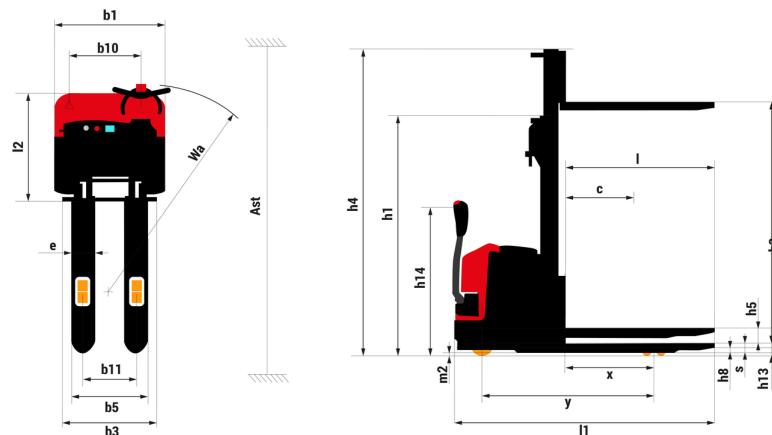
OXYGEN



 **MANITOU**  
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer	MANITOU	
1.2	Model Name	ES 312 L 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	768 mm / 700 mm
1.9	Wheelbase	y	1455 mm
1.9	Wheelbase (lower position)	y	1387 mm
Weight		Weight	
2.1	Service weight		1090 kg
2.2	Weight on front axle (laden) / rear axle (laden)		780 kg / 1510 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		740 kg / 350 kg
Wheels		Wheels	
3.1	Tires type		Polyurethane cushion
3.3	Number of load wheels / Size of load wheels		4 / 83x73
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	b10	510 mm
3.7	Rear wheel gauge	b11	385 mm
Dimensions		Dimensions	
4.10	Height of wheel arms	h8	80 mm
4.15	Fork height in low position	h13	90 mm
4.19	Overall length	l1	2000 mm
4.20	Length to face of forks	l2	850 mm
4.21	Overall width	b1	800 mm
4.22	Forks section / width / length	s / e / l	65 mm / 185 mm / 1150 mm
4.24	Fork carriage width	b3	680 mm
4.25	Forks spread	b5	570 mm
4.32	Ground clearance at centre of wheelbase	m2	15 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	2528 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	2474 mm
4.6	Initial lift	h5	125 mm
4.35	Turning radius	Wa	1685 mm
4.9	Height tiller min. / max.	h14 / h14	790 mm / 1205 mm
Performances		Performances	
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		Engine	
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
6.4	Battery technology		Lithium-ion
6.5	Battery weight (+/- 5%)		65 kg

## ES 312 L 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	
1085	
2790	

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	
715	
2790	

## 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



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