Technical sheet :

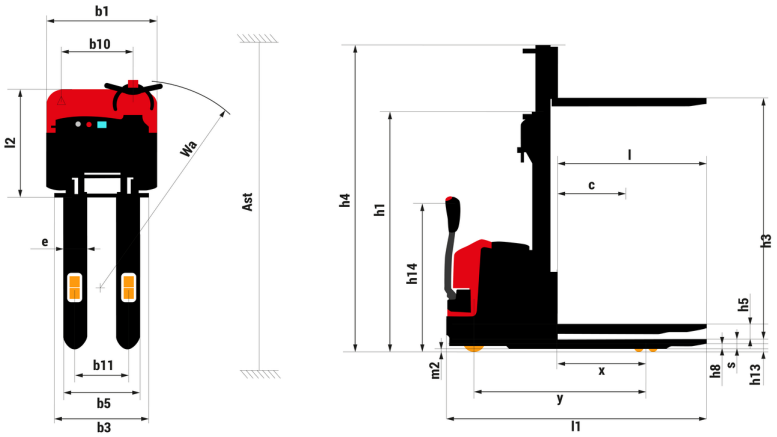
ES 312 L EASY

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	Q	1200 kg
1.6	Load center of gravity	c	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		
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		
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		
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		
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		
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
	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)		FVD 30
h1 - Mast lowered height	mm	1990
h2 - Mast free lift	mm	90
h3 - Mast lifting height	mm	3000
h4 - Mast extended height	mm	3490
Residual capacity at max height	kg	1085
Height at max capacity	mm	2790

Free Lift Triplex (FLT)		FLT 43
h1 - Mast lowered height	mm	1890
h2 - Mast free lift	mm	1425
h3 - Mast lifting height	mm	4300
h4 - Mast extended height	mm	4780
Residual capacity at max height	kg	715
Height at max capacity	mm	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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