

Technical sheet :

ES 312 L EASY

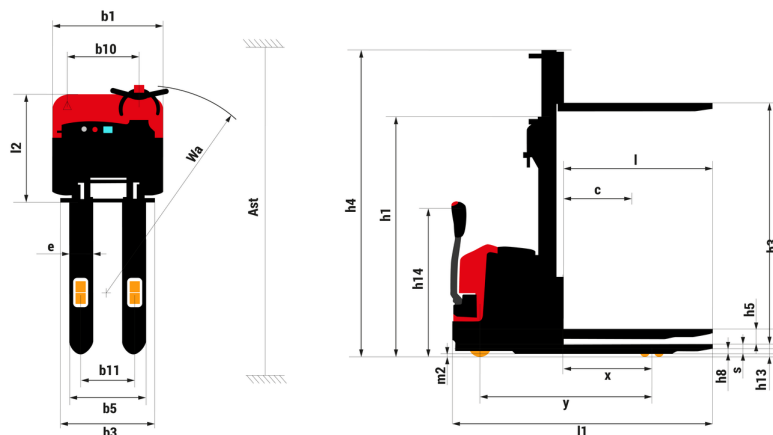
OXYGEN



 **MANITOU**
HANDLING YOUR WORLD

| | Technical characteristics | | Imperial |
|-------|---|-----------|----------------------|
| 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 | 2646 lb |
| 1.6 | Load center of gravity | c | 24 in |
| 1.8 | Load distance, centre of drive axle to fork (low/raised) - Low position / Raised position | x / x | 30 in / 28 in |
| 1.9 | Wheelbase | y | 57 in |
| 1.9 | Wheelbase (lower position) | y | 55 in |
| | Weight | | |
| 2.1 | Service weight | | 2403 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 1720 lb / 3329 lb |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 1631 lb / 772 lb |
| | 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 | 20 in |
| 3.7 | Rear wheel gauge | b11 | 15 in |
| | Dimensions | | |
| 4.10 | Height of wheel arms | h8 | 3 in |
| 4.15 | Fork height in low position | h13 | 4 in |
| 4.19 | Overall length | l1 | 79 in |
| 4.20 | Length to face of forks | l2 | 33 in |
| 4.21 | Overall width | b1 | 31 in |
| 4.22 | Forks section / width / length | s / e / l | 3 in / 7 in / 45 in |
| 4.24 | Fork carriage width | b3 | 27 in |
| 4.25 | Forks spread | b5 | 22 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 0.59 in |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 100 in |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 97 in |
| 4.6 | Initial lift | h5 | 5 in |
| 4.35 | Turning radius | Wa | 66 in |
| 4.9 | Height tiller min. / max. | h14 / h14 | 31 in / 47 in |
| | Performances | | |
| 5.1 | Travel speed (laden / unladen) | | 4 mph / 4 mph |
| 5.2 | Lifting speed (laden / unladen) | | 0.72 ft/s / 2 ft/s |
| 5.3 | Lowering speed (laden / unladen) | | 1 ft/s / 1 ft/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%) | | 143 lb |

ES 312 L Easy - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | | FVD 30 |
|---------------------------------|----|--------|
| h1 - Mast lowered height | in | 78.3 |
| h2 - Mast free lift | in | 3.5 |
| h3 - Mast lifting height | in | 118.1 |
| h4 - Mast extended height | in | 137.4 |
| Residual capacity at max height | lb | 2392 |
| Height at max capacity | in | 109.8 |

| Free Lift Triplex (FLT) | | FLT 43 |
|---------------------------------|----|--------|
| h1 - Mast lowered height | in | 74.4 |
| h2 - Mast free lift | in | 56.1 |
| h3 - Mast lifting height | in | 169.3 |
| h4 - Mast extended height | in | 188.2 |
| Residual capacity at max height | lb | 1576 |
| Height at max capacity | in | 109.8 |

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 |



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



This publication provides a description of the configuration versions and options for Manitou products, which may differ for equipment. The equipment presented in this brochure may be part of a series, as an option, or it may not be available, depending on the versions. Manitou reserves the right, at any time and without notice, to amend the specifications described and represented. The specifications provided do not bind the manufacturer. For more details, please contact your Manitou agent. This is not a contractually binding document. The presentation of the products is not contractually binding. List of specifications non-exhaustive. The logos as well as the visual identity of the company are owned by Manitou and cannot be used without authorisation. All rights reserved. The photos and diagrams contained in this brochure are only provided for consultation and information purposes.

MANITOU BF SA - Limited company with board of directors - Share capital: 39,668,399 euros - 857 802 508 RCS Nantes