

Technical sheet :

# **ES 614 (5PTS)**

---



 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                   |           | Metric                   |
|-------|-------------------------------------------------------------|-----------|--------------------------|
| 1.1   | Manufacturer                                                |           | Manitou                  |
| 1.2   | Model Name                                                  |           | ES 614 (5pts)            |
| 1.3   | Power source                                                |           | Electrical               |
| 1.4   | Operator type                                               |           | Pedestrian               |
| 1.5   | Max. capacity                                               | Q         | 1400 kg                  |
| 1.6   | Load center of gravity                                      | c         | 600 mm                   |
| 1.8   | Distance from Load backrest to center of rear axle          | x         | 687 mm                   |
| 1.9   | Wheelbase                                                   | y         | 1272 mm                  |
|       | Weight                                                      |           |                          |
| 2.1   | Service weight                                              |           | 1095 kg                  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)            |           | 1065 kg / 1620 kg        |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)        |           | 855 kg / 240 kg          |
|       | Wheels                                                      |           |                          |
| 3.1   | Tires type                                                  |           | Polyurethane             |
| 3.3   | Number of load wheels / Size of load wheels                 |           | 4 / 82 x 68              |
| 3.4   | Number of stabilizer wheels / Size of the stabilizer wheels |           | 2 / 120 x 54             |
| 3.5   | Number of front wheels / rear wheels                        |           | 3 / 4                    |
| 3.5.2 | Number of drive wheels / Size of drive wheels               |           | 1/230x70                 |
| 3.6   | Front wheel gauge                                           | b10       | 529 mm                   |
| 3.7   | Rear wheel gauge                                            | b11       | 380 mm                   |
|       | Dimensions                                                  |           |                          |
| 4.15  | Fork height in low position                                 | h13       | 85 mm                    |
| 4.19  | Overall length                                              | l1        | 2052 mm                  |
| 4.20  | Length to face of forks                                     | l2        | 761 mm                   |
| 4.21  | Overall width                                               | b1        | 800 mm                   |
| 4.22  | Forks section / width / length                              | s / e / l | 60 mm / 185 mm / 1150 mm |
| 4.24  | Fork carriage width                                         | b3        | 700 mm                   |
| 4.32  | Ground clearance at centre of wheelbase                     | m2        | 30 mm                    |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways               | Ast       | 2286 mm                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                | Ast       | 2432 mm                  |
| 4.35  | Turning radius                                              | Wa        | 1476 mm                  |
| 4.9   | Height tiller min. / max.                                   | h14 / h14 | 750 mm / 1250 mm         |
|       | Performances                                                |           |                          |
| 5.1   | Travel speed (laden / unladen)                              |           | 6 km/h / 6 km/h          |
| 5.2   | Lifting speed (laden / unladen)                             |           | 0.18 m/s / 0.30 m/s      |
| 5.3   | Lowering speed (laden / unladen)                            |           | 0.27 m/s / 0.22 m/s      |
| 5.8   | Max Gradeability (laden / unladen)                          |           | 7 % / 10 %               |
| 5.10  | Service brake                                               |           | Electro magnetic         |
|       | Engine                                                      |           |                          |
| 6.1   | Drive motor rating S2 60 min                                |           | 1.50 kW                  |
| 6.2   | Lift motor rating at S3 15%                                 |           | 3 kW                     |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C                |           | DIN 43535-B              |
| 6.4   | Battery voltage / capacity                                  |           | 24 V / 250 Ah            |
| 6.5   | Battery weight (+/- 5%)                                     |           | 220 kg                   |
|       | Miscellaneous                                               |           |                          |
| 8.1   | Type of drive control                                       |           | AC                       |
| 8.4   | Sound level at the driver's ear according to DIN 12 053     |           | 65 dB                    |

## ES 614 (5pts) - Dimensional drawing



## Characteristics of masts and residual capacities

| Central Cylinder Simplex (CCS)  |    | CCS 15 | CCS 17 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1930   | 2180   |
| h2 - Mast free lift             | mm | 1505   | 1755   |
| h3 - Mast lifting height        | mm | 1505   | 1755   |
| h4 - Mast extended height       | mm | 1944   | 2194   |
| Residual capacity at max height | kg | 1400   | 1400   |

| Full Visibility Duplex (FVD)    |    | FVD 29 | FVD 34 | FVD 38 |
|---------------------------------|----|--------|--------|--------|
| h1 - Mast lowered height        | mm | 1930   | 2180   | 2380   |
| h3 - Mast lifting height        | mm | 2935   | 3435   | 3835   |
| h4 - Mast extended height       | mm | 3374   | 3874   | 4274   |
| Residual capacity at max height | kg | 1050   | 800    | 500    |

| Free Lift Duplex (FLD)          |    | FLD 29 | FLD 34 |
|---------------------------------|----|--------|--------|
| h1 - Mast lowered height        | mm | 1930   | 2180   |
| h2 - Mast free lift             | mm | 1505   | 1755   |
| h3 - Mast lifting height        | mm | 2930   | 3430   |
| h4 - Mast extended height       | mm | 3369   | 3869   |
| Residual capacity at max height | kg | 1050   | 800    |

| Free Lift Triplex (FLT)         |    | FLT 42 |
|---------------------------------|----|--------|
| h1 - Mast lowered height        | mm | 1889   |
| h2 - Mast free lift             | mm | 1465   |
| h3 - Mast lifting height        | mm | 4245   |
| h4 - Mast extended height       | mm | 4701   |
| Residual capacity at max height | kg | 400    |



**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](http://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