

Technical sheet :

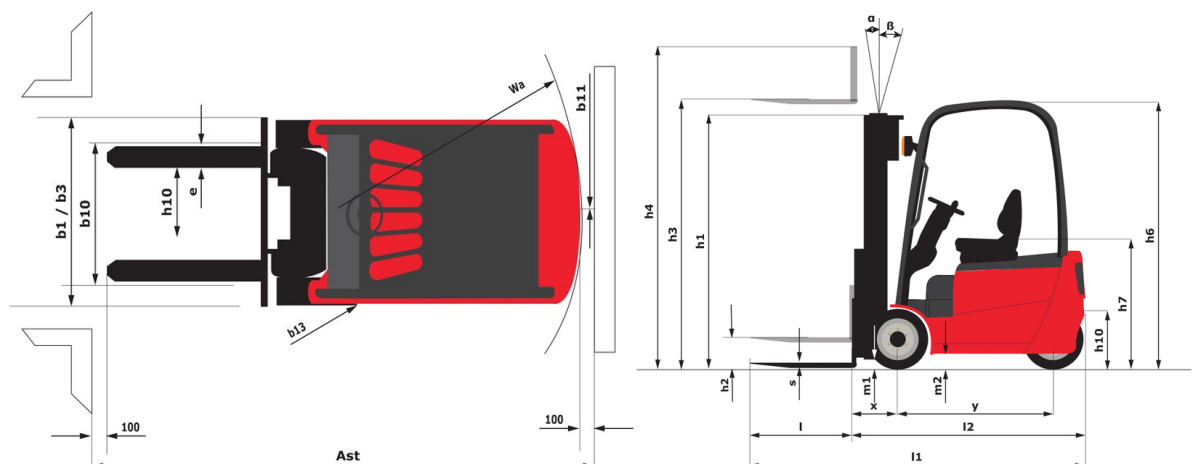
# ME 418



 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Metric                   |
|-------|-----------------------------------------------------------------|-----------|--------------------------|
| 1.1   | Manufacturer                                                    |           | Manitou                  |
| 1.2   | Model Name                                                      |           | ME 418                   |
| 1.3   | Power source                                                    |           | Electrical               |
| 1.4   | Operator type                                                   |           | Seated                   |
| 1.5   | Max. capacity                                                   | Q         | 1800 kg                  |
| 1.6   | Load center of gravity                                          | c         | 500 mm                   |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 411 mm                   |
| 1.9   | Wheelbase                                                       | y         | 1380 mm                  |
|       | <b>Weight</b>                                                   |           |                          |
| 2.1   | Service weight                                                  |           | 3070 kg                  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 4350 kg / 520 kg         |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1400 kg / 1670 kg        |
|       | <b>Wheels</b>                                                   |           |                          |
| 3.1   | Tires type                                                      |           | Solid tires              |
| 3.2   | Dimensions of front wheels                                      |           | 21 x 8-9                 |
| 3.3   | Dimensions of rear wheels                                       |           | 5.00-8                   |
| 3.5   | Number of front wheels / rear wheels                            |           | 2 / 2                    |
| 3.5.2 | Number of drive wheels                                          |           | 2                        |
| 3.6   | Front wheel gauge                                               | b10       | 938 mm                   |
| 3.7   | Rear wheel gauge                                                | b11       | 898 mm                   |
|       | <b>Dimensions</b>                                               |           |                          |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2130 mm                  |
| 4.8   | Seat height/stand height                                        | h7        | 1045 mm                  |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 275 mm                   |
| 4.19  | Overall length                                                  | l1        | 3248 mm                  |
| 4.20  | Length to face of forks                                         | l2        | 2098 mm                  |
| 4.21  | Overall width                                                   | b1        | 1138 mm                  |
| 4.22  | Forks section / width / length                                  | s / e / l | 100 mm x 1150 mm x 35 mm |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |           | 2A                       |
| 4.24  | Fork carriage width                                             | b3        | 1000 mm                  |
| 4.31  | Ground clearance below mast                                     | m1        | 100 mm                   |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 110 mm                   |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 3511 mm                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 3711 mm                  |
| 4.35  | Turning radius                                                  | Wa        | 1900 mm                  |
| 4.36  | Internal turning radius (over tyres)                            | b13       | 680 mm                   |
|       | <b>Performances</b>                                             |           |                          |
| 5.1   | Travel speed (laden / unladen)                                  |           | 13.50 km/h-14 km/h       |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.29 m/s-0.44 m/s        |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.49 m/s-0.48 m/s        |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 1200 daN / 1100 daN      |
| 5.7   | Gradeability (laden / unladen)                                  |           | 12 % / 13 %              |
| 5.10  | Service brake                                                   |           | Hydraulic                |
|       | <b>Engine</b>                                                   |           |                          |
| 6.1   | Drive motor rating S2 60 min                                    |           | 8 kW                     |
| 6.2   | Lift motor rating at S3 15%                                     |           | 8.60 kW                  |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C                    |           | DIN43531 A               |
| 6.4   | Battery voltage / capacity                                      |           | 48 V / 465 Ah            |
| 6.6   | Energy consumption                                              |           | 4.60 kWh                 |
|       | <b>Miscellaneous</b>                                            |           |                          |
| 8.1   | Type of drive control                                           |           | Electronic               |
| 8.2   | Working hydraulic pressure for attachments                      |           | 175 bar                  |
| 8.3   | Oil flow rate for attachments                                   |           | 35 l/min                 |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 71 dB                  |
| 8.4   | Sound level at the driver's ear according to DIN 12 053         |           | 71 dB                    |

## ME 418 - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                               |    | FVD 27 | FVD 30 | FVD 33 | FVD 36 | FVD 40 | FVD 43 | FVD 45 |
|------------------------------------------------------------|----|--------|--------|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | °  | 5      | 5      | 5      | 5      | 5      | 5      | 5      |
| Mast/fork carriage tilt, backward                          | °  | 6      | 10     | 10     | 10     | 10     | 6      | 6      |
| h1 - Mast lowered height                                   | mm | 1825   | 1975   | 2125   | 2325   | 2575   | 2725   | 2825   |
| h2 - Mast free lift                                        | mm | 145    | 145    | 145    | 145    | 145    | 145    | 145    |
| h3 - Mast lifting height                                   | mm | 2700   | 3000   | 3300   | 3600   | 4000   | 4300   | 4500   |
| h4 - Mast extended height                                  | mm | 3265   | 3565   | 3865   | 4165   | 4565   | 4865   | 5065   |
| Residual capacity at max height                            | kg | 1800   | 1800   | 1800   | 1800   | 1800   | 1700   | 1650   |
| Residual capacity with integrated side shift at max height | kg | 1800   | 1800   | 1800   | 1800   | 1750   | 1650   | 1600   |
| Residual capacity with hooked-on side shift at max height  | kg | 1800   | 1800   | 1800   | 1700   | 1650   | 1550   | 1500   |
| Height at max capacity                                     | mm | 2700   | 3000   | 3300   | 3600   | 4000   | 4300   | 2500   |
| Height at max capacity with integrated sideshift           | mm | 2700   | 3000   | 3300   | 3600   | 4000   |        |        |

| Free Lift Duplex (FLD)                                     |    | FLD 27 | FLD 30 | FLD 33 | FLD 36 | FLD 40 |
|------------------------------------------------------------|----|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | °  | 5      | 5      | 5      | 5      | 5      |
| Mast/fork carriage tilt, backward                          | °  | 6      | 10     | 10     | 10     | 10     |
| h1 - Mast lowered height                                   | mm | 1825   | 1975   | 2125   | 2275   | 2525   |
| h2 - Mast free lift                                        | mm | 1240   | 1390   | 1540   | 1690   | 1940   |
| h3 - Mast lifting height                                   | mm | 2700   | 3000   | 3300   | 3600   | 4000   |
| h4 - Mast extended height                                  | mm | 3295   | 3595   | 3895   | 4195   | 4595   |
| Residual capacity at max height                            | kg | 1800   | 1800   | 1800   | 1800   | 1800   |
| Residual capacity with integrated side shift at max height | kg | 1800   | 1800   | 1800   | 1800   | 1750   |
| Residual capacity with hooked-on side shift at max height  | kg | 1800   | 1800   | 1800   | 1700   | 1650   |
| Height at max capacity                                     | mm | 2700   | 3000   | 3300   | 3600   | 4000   |
| Height at max capacity with integrated sideshift           | mm | 2700   | 3000   | 3300   | 3600   | 4000   |

[illegible]



**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