

Technical sheet :

# ME 440

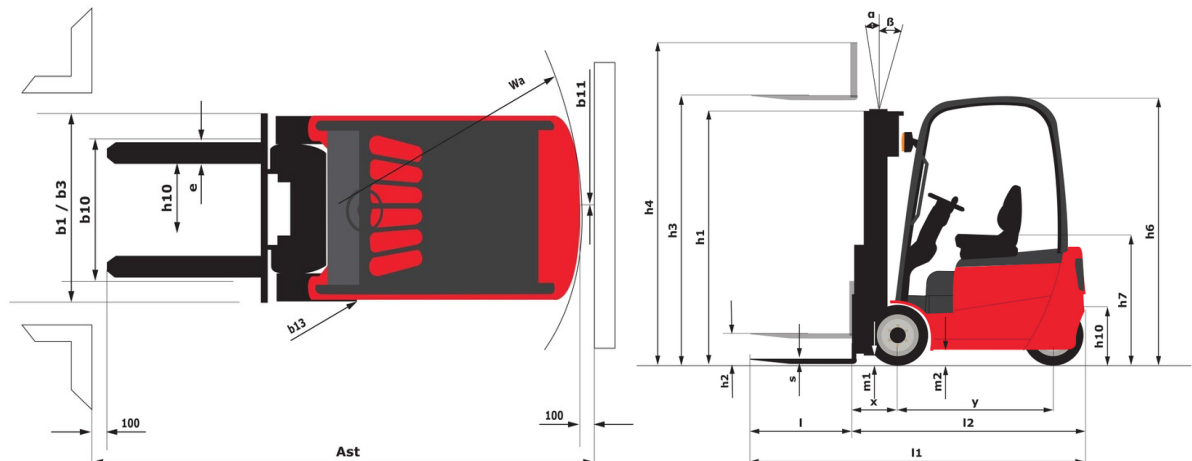
---



 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Metric                   |
|-------|-----------------------------------------------------------------|-----------|--------------------------|
| 1.1   | Manufacturer                                                    |           | Manitou                  |
| 1.2   | Model Name                                                      |           | ME 440                   |
| 1.3   | Power source                                                    |           | Electrical               |
| 1.4   | Operator type                                                   |           | Seated                   |
| 1.5   | Max. capacity                                                   | Q         | 4000 kg                  |
| 1.6   | Load center of gravity                                          | c         | 500 mm                   |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 550 mm                   |
| 1.9   | Wheelbase                                                       | y         | 2000 mm                  |
|       | <b>Weight</b>                                                   |           |                          |
| 2.1   | Service weight                                                  |           | 6600 kg                  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 9440 kg / 1160 kg        |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 3960 kg / 2640 kg        |
|       | <b>Wheels</b>                                                   |           |                          |
| 3.1   | Tires type                                                      |           | Solid tires              |
| 3.2   | Dimensions of front wheels                                      |           | 250/15                   |
| 3.3   | Dimensions of rear wheels                                       |           | 7.00-12                  |
| 3.5   | Number of front wheels / rear wheels                            |           | 2 / 2                    |
| 3.5.2 | Number of drive wheels                                          |           | 2                        |
| 3.6   | Front wheel gauge                                               | b10       | 1130 mm                  |
| 3.7   | Rear wheel gauge                                                | b11       | 1100 mm                  |
|       | <b>Dimensions</b>                                               |           |                          |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2300 mm                  |
| 4.8   | Seat height/stand height                                        | h7        | 1235 mm                  |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 460 mm                   |
| 4.19  | Overall length                                                  | l1        | 4165 mm                  |
| 4.20  | Length to face of forks                                         | l2        | 3015 mm                  |
| 4.21  | Overall width                                                   | b1        | 1380 mm                  |
| 4.22  | Forks section / width / length                                  | s / e / l | 122 mm x 1150 mm x 50 mm |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |           | 3A                       |
| 4.24  | Fork carriage width                                             | b3        | 1100 mm                  |
| 4.31  | Ground clearance below mast                                     | m1        | 110 mm                   |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 219 mm                   |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 4470 mm                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4670 mm                  |
| 4.35  | Turning radius                                                  | Wa        | 2720 mm                  |
| 4.36  | Internal turning radius (over tyres)                            | b13       | 805 mm                   |
|       | <b>Performances</b>                                             |           |                          |
| 5.1   | Travel speed (laden / unladen)                                  |           | 13.50 km/h-14 km/h       |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.26 m/s-0.40 m/s        |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.50 m/s-0.30 m/s        |
| 5.5   | Drawbar pull (Laden)                                            |           | 2400 daN                 |
| 5.7   | Gradeability (laden / unladen)                                  |           | 15 % / 16 %              |
| 5.10  | Service brake                                                   |           | Hydraulic                |
|       | <b>Engine</b>                                                   |           |                          |
| 6.1   | Drive motor rating S2 60 min                                    |           | 16.60 kW                 |
| 6.2   | Lift motor rating at S3 15%                                     |           | 25.40 kW                 |
| 6.3   | Battery according to DIN 43531/35/36 A, B, C                    |           | DIN43536 A               |
| 6.4   | Battery voltage / capacity                                      |           | 80 V / 700 Ah            |
| 6.6   | Energy consumption                                              |           | 12.50 kWh                |
|       | <b>Miscellaneous</b>                                            |           |                          |
| 8.1   | Type of drive control                                           |           | Electronic               |
| 8.2   | Working hydraulic pressure for attachments                      |           | 210 bar                  |
| 8.3   | Oil flow rate for attachments                                   |           | 65 l/min                 |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 78 dB                  |

## ME 440 - Dimensional drawing



# Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                              |    | FVD 30 | FVD 33 | FVD 35 | FVD 40 | FVD 43 | FVD 45 | FVD 48 | FVD 50 |
|-----------------------------------------------------------|----|--------|--------|--------|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                          | °  | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      |
| Mast/fork carriage tilt, backward                         | °  | 12     | 12     | 12     | 12     | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height                                  | mm | 2185   | 2335   | 2435   | 2735   | 2900   | 3010   | 3175   | 3285   |
| h2 - Mast free lift                                       | mm | 150    | 150    | 150    | 150    | 150    | 150    | 150    | 150    |
| h3 - Mast lifting height                                  | mm | 3000   | 3300   | 3500   | 4000   | 4300   | 4500   | 4800   | 5000   |
| h4 - Mast extended height                                 | mm | 3770   | 4070   | 4270   | 4770   | 5070   | 5270   | 5570   | 5770   |
| Residual capacity at max height                           | kg | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   |
| Residual capacity with integrated side shift at max heigh | kg | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   | 4000   |
| Residual capacity with hooked-on side shift at max height | kg | 3800   | 3800   | 3800   | 3800   | 3800   | 3800   | 3800   | 3800   |
| Height at max capacity                                    | mm | 3000   | 3300   | 3500   | 4000   | 4300   | 4500   | 4800   | 5000   |
| Height at max capacity with integrated sideshift          | mm | 3000   | 3300   | 3500   | 4000   | 4300   | 4500   | 4800   | 5000   |

| Free Lift Duplex (FLD)                                     |    | FLD 30 | FLD 33 | FLD 40 |
|------------------------------------------------------------|----|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | °  | 6      | 6      | 6      |
| Mast/fork carriage tilt, backward                          | °  | 12     | 12     | 12     |
| h1 - Mast lowered height                                   | mm | 2166   | 2316   | 2666   |
| h2 - Mast free lift                                        | mm | 1365   | 1515   | 1865   |
| h3 - Mast lifting height                                   | mm | 3000   | 3300   | 4000   |
| h4 - Mast extended height                                  | mm | 3805   | 4105   | 4805   |
| Residual capacity at max height                            | kg | 4000   | 4000   | 4000   |
| Residual capacity with integrated side shift at max height | kg | 4000   | 4000   | 4000   |
| Residual capacity with hooked-on side shift at max height  | kg | 3800   | 3800   | 3800   |
| Height at max capacity                                     | mm | 3000   | 3300   | 4000   |
| Height at max capacity with integrated sideshift           | mm | 3000   | 3300   | 4000   |

| Free Lift Triplex (FLT)                                    |    | FLT 43 | FLT 48 | FLT 50 | FLT 55 | FLT 60 |
|------------------------------------------------------------|----|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | °  | 6      | 6      | 6      | 3      | 3      |
| Mast/fork carriage tilt, backward                          | °  | 12     | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height                                   | mm | 2120   | 2280   | 2350   | 2515   | 2730   |
| h2 - Mast free lift                                        | mm | 1218   | 1478   | 1548   | 1710   | 1928   |
| h3 - Mast lifting height                                   | mm | 4000   | 4800   | 5000   | 5500   | 6000   |
| h4 - Mast extended height                                  | mm | 4805   | 5605   | 5805   | 6305   | 6805   |
| Residual capacity at max height                            | kg | 4000   | 4000   | 3800   | 3700   | 3600   |
| Residual capacity with integrated side shift at max height | kg | 4000   | 3900   | 3700   | 3600   | 3500   |
| Residual capacity with hooked-on side shift at max height  | kg | 3800   | 3800   | 3700   | 3500   | 3400   |
| Height at max capacity                                     | mm | 2500   | 2500   | 2500   | 2500   | 2500   |



**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