

Fiche technique :

# ME 320 FOB



 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Métrique                 |
|-------|-----------------------------------------------------------------|-----------|--------------------------|
| 1.1   | Manufacturer                                                    |           | Manitou                  |
| 1.2   | Model Name                                                      |           | ME 320 FOB               |
| 1.3   | Power source                                                    |           | Electrical               |
| 1.4   | Operator type                                                   |           | Seated                   |
| 1.5   | Max. capacity                                                   | Q         | 2000 kg                  |
| 1.6   | Load center of gravity                                          | c         | 500 mm                   |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 355 mm                   |
| 1.9   | Wheelbase                                                       | y         | 1465 mm                  |
|       | <b>Weight</b>                                                   |           |                          |
| 2.1   | Service weight                                                  |           | 3470 kg                  |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 4750 kg / 720 kg         |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1530 kg / 1940 kg        |
|       | <b>Wheels</b>                                                   |           |                          |
| 3.1   | Tires type                                                      |           | Solid tires              |
| 3.2   | Dimensions of front wheels                                      |           | 200/50-10                |
| 3.3   | Dimensions of rear wheels                                       |           | 15x4,5-8                 |
| 3.5   | Number of front wheels / rear wheels                            |           | 2 / 1                    |
| 3.5.2 | Number of drive wheels                                          |           | 2                        |
| 3.6   | Front wheel gauge                                               | b10       | 910 mm                   |
| 3.7   | Rear wheel gauge                                                | b11       | 175 mm                   |
|       | <b>Dimensions</b>                                               |           |                          |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2040 mm                  |
| 4.8   | Seat height/stand height                                        | h7        | 1000 mm                  |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 500 mm                   |
| 4.19  | Overall length                                                  | l1        | 3076 mm                  |
| 4.20  | Length to face of forks                                         | l2        | 2006 mm                  |
| 4.21  | Overall width                                                   | b1        | 1120 mm                  |
| 4.22  | Forks section / width / length                                  | s / e / l | 40 mm x 122 mm x 1070 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       | 3346 mm                  |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 3470 mm                  |
| 4.35  | Turning radius                                                  | Wa        | 1660 mm                  |
|       | <b>Performances</b>                                             |           |                          |
| 5.1   | Travel speed (laden / unladen)                                  |           | 15 km/h-15 km/h          |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.40 m/s-0.45 m/s        |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.47 m/s-0.42 m/s        |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 900 daN / 930 daN        |
| 5.7   | Gradeability (laden / unladen)                                  |           | 13 % / 15 %              |
| 5.10  | Service brake                                                   |           | Oil bath                 |
|       | <b>Engine</b>                                                   |           |                          |
| 6.1   | Number of drive motor / Drive motor rating S2 60 min            |           | 2 / 4.50 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 / 690 Ah            |
| 6.6   | Energy consumption                                              |           | 4.70 kWh                 |
|       | <b>Miscellaneous</b>                                            |           |                          |
| 8.1   | Type of drive control                                           |           | Electronic               |
| 8.2   | Working hydraulic pressure for attachments                      |           | 180 bar                  |
| 8.3   | Oil flow rate for attachments                                   |           | 35 l/min                 |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 70 dB                  |
| 8.4   | Sound level at the driver's ear according to DIN 12 053         |           | 70 dB                    |

## ME 320 FOB - Schémas d'encombrement



| Full Visibility Duplex (FVD)                               |    | FVD 27 | FVD 30 | FVD 33 | FVD 36 | FVD 40 | FVD 43 | FVD 45 |
|------------------------------------------------------------|----|--------|--------|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | °  | 5.50   | 5.50   | 5.50   | 5.50   | 3.50   | 3.50   | 3.50   |
| Mast/fork carriage tilt, backward                          | °  | 6      | 6      | 6      | 6      | 5      | 5      | 5      |
| h1 - Mast lowered height                                   | mm | 1845   | 1995   | 2145   | 2295   | 2545   | 2710   | 2820   |
| 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 | 2000   | 2000   | 2000   | 2000   | 2000   | 1950   | 1900   |
| Residual capacity with integrated side shift at max height | kg | 2000   | 2000   | 2000   | 2000   | 2000   | 1950   | 1900   |
| Residual capacity with hooked-on side shift at max height  | kg | 2000   | 2000   | 2000   | 2000   | 1850   | 1750   | 1700   |
| Height at max capacity                                     | mm | 2700   | 3000   | 3300   | 3600   | 4000   | 4000   | 4000   |
| Height at max capacity with integrated sideshift           | mm | 2700   | 3000   | 3300   | 3600   | 4000   | 4000   | 4000   |

| Free Lift Duplex (FLD)                                        | FLD 27 | FLD 30 | FLD 33 | FLD 36 | FLD 40 |
|---------------------------------------------------------------|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward °                            | 5.50   | 5.50   | 5.50   | 5.50   | 3.50   |
| Mast/fork carriage tilt, backward °                           | 6      | 6      | 6      | 6      | 5      |
| h1 - Mast lowered height mm                                   | 1845   | 1995   | 2145   | 2295   | 2545   |
| h2 - Mast free lift mm                                        | 1260   | 1410   | 1560   | 1710   | 1960   |
| 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                            | 2000   | 2000   | 2000   | 2000   | 2000   |
| Residual capacity with integrated side shift at max height kg | 2000   | 2000   | 2000   | 2000   | 2000   |
| Residual capacity with hooked-on side shift at max height kg  | 2000   | 2000   | 2000   | 2000   | 1850   |
| Height at max capacity mm                                     | 2700   | 3000   | 3300   | 3600   | 4000   |
| Height at max capacity with integrated sideshift mm           | 2700   | 3000   | 3300   | 3600   | 4000   |

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