

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







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