

Technical sheet :

# MSI 40

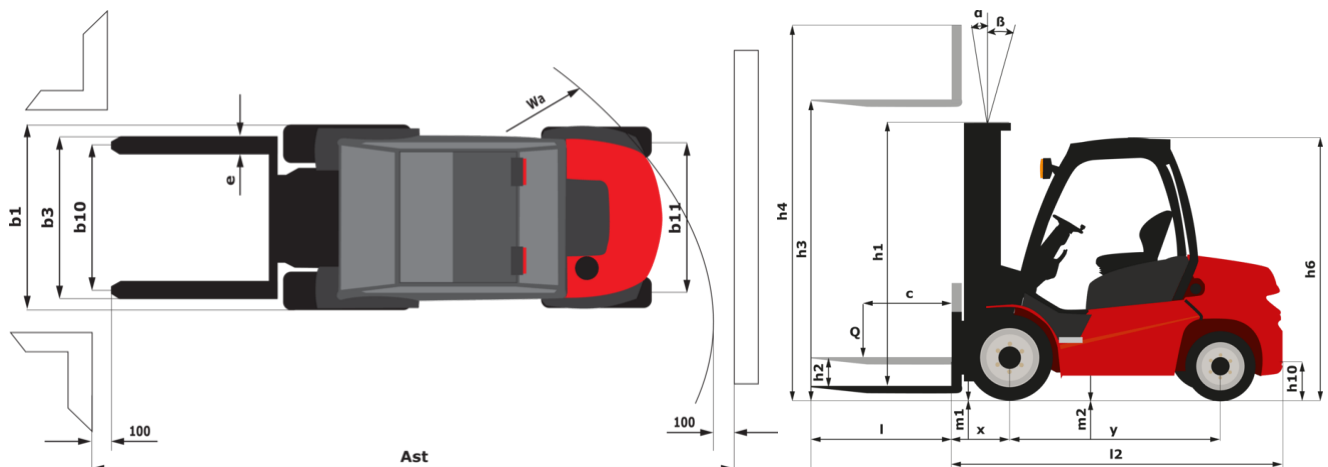
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 **MANITOU**  
HANDLING YOUR WORLD

| Technical characteristics |                                                                 |           | Metric                   | Imperial              |
|---------------------------|-----------------------------------------------------------------|-----------|--------------------------|-----------------------|
| 1.1                       | Manufacturer                                                    |           | Manitou                  | Manitou               |
| 1.2                       | Model Name                                                      |           | MSI 40                   | MSI 40                |
| 1.3                       | Power source                                                    |           | Diesel                   | Diesel                |
| 1.4                       | Operator type                                                   |           | Seated                   | Seated                |
| 1.5                       | Max. capacity                                                   | Q         | 4000 kg                  | 8818 lb               |
| 1.6                       | Load center of gravity                                          | c         | 500 mm                   | 20 in                 |
| 1.8                       | Load distance, centre of drive axle to fork                     | x         | 691 mm                   | 27 in                 |
| 1.9                       | Wheelbase                                                       | y         | 2075 mm                  | 82 in                 |
| Weight                    |                                                                 |           |                          |                       |
| 2.1                       | Service weight                                                  |           | 6980 kg                  | 15388 lb              |
| 2.2                       | Weight on front axle (laden) / rear axle (laden)                |           | 9245 kg / 1735 kg        | 20382 lb / 3825 lb    |
| 2.3                       | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 3210 kg / 3770 kg        | 7077 lb / 8311 lb     |
| Wheels                    |                                                                 |           |                          |                       |
| 3.1                       | Tires type                                                      |           | Pneumatic                | Pneumatic             |
| 3.2                       | Dimensions of front wheels                                      |           | 315/70 R22,5             | 315/70 R22,5          |
| 3.3                       | Dimensions of rear wheels                                       |           | 225/75 R15               | 225/75 R15            |
| 3.5                       | Number of front wheels / rear wheels                            |           | 2 / 2                    | 2 / 2                 |
| 3.5.2                     | Number of drive wheels                                          |           | 2                        | 2                     |
| 3.6                       | Front wheel gauge                                               | b10       | 1420 mm                  | 56 in                 |
| 3.7                       | Rear wheel gauge                                                | b11       | 1142 mm                  | 45 in                 |
| Dimensions                |                                                                 |           |                          |                       |
| 4.8                       | Seat height/stand height                                        | h7        | 1300 mm                  | 51 in                 |
| 4.12                      | Height of towing bar (coupling height)                          | h10       | 540 mm                   | 21 in                 |
| 4.19                      | Overall length                                                  | l1        | 4494 mm                  | 177 in                |
| 4.20                      | Length to face of forks                                         | l2        | 3294 mm                  | 130 in                |
| 4.21                      | Overall width                                                   | b1        | 1732 mm                  | 68 in                 |
| 4.22                      | Forks section / width / length                                  | s / e / l | 50 mm x 150 mm x 1200 mm | 2 in x 6 in x 47 in   |
| 4.23                      | Fork carriage ISO 2328 (class/form) A/B                         |           | 3A                       | 3A                    |
| 4.24                      | Fork carriage width                                             | b3        | 1670 mm                  | 66 in                 |
| 4.31                      | Ground clearance below mast                                     | m1        | 185 mm                   | 7 in                  |
| 4.32                      | Ground clearance at centre of wheelbase                         | m2        | 225 mm                   | 9 in                  |
| 4.33                      | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 4756 mm                  | 187 in                |
| 4.34                      | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4956 mm                  | 195 in                |
| 4.35                      | Turning radius                                                  | Wa        | 2865 mm                  | 113 in                |
| 4.36                      | Internal turning radius (over tyres)                            | b13       | 125 mm                   | 5 in                  |
| Performances              |                                                                 |           |                          |                       |
| 5.1                       | Travel speed (laden / unladen)                                  |           | 22 km/h-22 km/h          | 14 mph-14 mph         |
| 5.2                       | Lifting speed (laden / unladen)                                 |           | 0.60 m/s-0.60 m/s        | 2 ft/s-2 ft/s         |
| 5.3                       | Lowering speed (laden / unladen)                                |           | 0.40 m/s-0.50 m/s        | 1 ft/s-2 ft/s         |
| 5.5                       | Drawbar pull (Laden / Unladen)                                  |           | 3180 daN / 2020 daN      | 3180 daN / 2020 daN   |
| 5.7                       | Gradeability (laden / unladen)                                  |           | 24 % / 29 %              | 24 % / 29 %           |
| 5.10                      | Service brake                                                   |           | Hydraulic                | Hydraulic             |
| Engine                    |                                                                 |           |                          |                       |
| 7.1                       | Engine brand / model                                            |           | Perkins / 854 F 10794    | Perkins / 854 F 10794 |
| 7.2                       | Engine power according to ISO 1585                              |           | 55 kW                    | 55 kW                 |
| 7.3                       | Rated speed                                                     |           | 2200 rpm                 | 2200 rpm              |
| 7.4                       | Number of cylinders / Capacity of cylinders                     |           | 4 - 3400 cm³             | 4 - 207 in³           |
| Miscellaneous             |                                                                 |           |                          |                       |
| 8.1                       | Type of drive control                                           |           | Hydraulic                | Hydraulic             |
| 8.2                       | Working hydraulic pressure for attachments                      |           | 230 bar                  | 3336 PSI              |
| 8.3                       | Oil flow rate for attachments                                   |           | 45 l/min                 | 12 US gpm             |
| 8.4                       | Measured/guaranteed mean noise level at the ear of the operator |           | < 81 dB                  | < 81 dB               |

## MSI 40 - Dimensional drawing



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