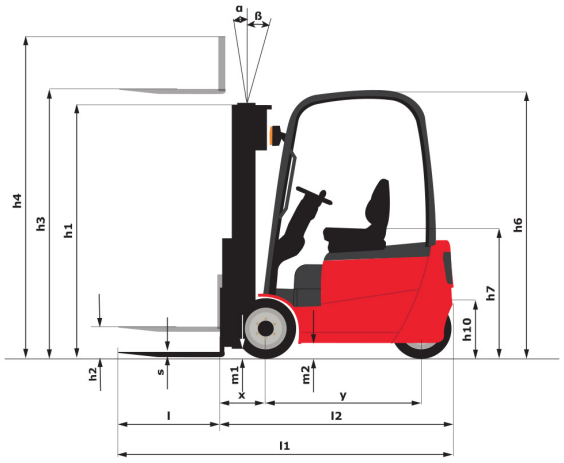
Technical sheet :

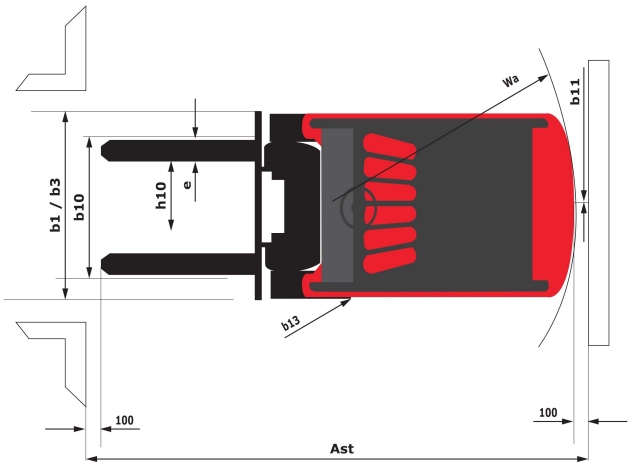
# ME 440

MANITOU
HANDLING YOUR WORLD

| | Technical characteristics | | Metric |
|---|---|---|---|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ME 440 |
| 1.3 | Power source | | Electric |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 4000 kg |
| 1.6 | Load centre of gravity | c | 500 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 550 mm |
| 1.9 | Wheelbase | y | 2000 mm |
| | **Weight** | | |
| 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 |
| | **Wheels** | | |
| 3.1 | Tyres type | | PPS |
| 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 |
| | **Dimensions** | | |
| 4.1 | Tilt of Mast Forward (deg) / Backward (deg) | α / β | 6 / 12 |
| 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 / 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 |
| 4.36 | Internal turning radius (over tyres) | b13 | 805 mm |
| 4.35 | Turning radius | Wa | 2720 mm |
| | **Performances** | | |
| 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 |
| | **Engine** | | |
| 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 / Batteries capacity | | 80 V / 700 Ah |
| 6.6 | Energy consumption | | 12.50 kW/h |
| | **Miscellaneous** | | |
| 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(A) |

# Dimensional drawing




# Characteristics of masts and residual capacities

| Full Visibility Duplex | | FVD 30 | FVD 33 | FVD 35 | FVD 40 | FVD 43 | FVD 45 | FVD 48 | FVD 50 |
|---|---|---|---|---|---|---|---|---|---|
| h2 - Free lift | mm | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| h1 - Height mast lowered * | mm | 2185 | 2335 | 2435 | 2735 | 2900 | 3010 | 3175 | 3285 |
| h3 - Lifting Height | mm | 3000 | 3300 | 3500 | 4000 | 4300 | 4500 | 4800 | 5000 |
| h4 - Height mast extended * | mm | 3770 | 4070 | 4270 | 4770 | 5070 | 5270 | 5570 | 5770 |
| α / β - Mast inclination (front / rear) | ° | 6 / 12 | 6 / 12 | 6 / 12 | 6 / 12 | 6 / 6 | 6 / 6 | 6 / 6 | 6 / 6 |
| Residual capacity without attachment (Industrial load chart) | kg | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 |
| Residual capacity with integrated side shift (Industrial load chart) | kg | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 |
| Residual capacity with hooked-on side shift (Industrial load chart) | 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 30 | FLD 33 | FLD 40 |
|---|---|---|---|---|
| h2 - Free lift | mm | 1365 | 1515 | 1865 |
| h1 - Height mast lowered * | mm | 2166 | 2316 | 2666 |
| h3 - Lifting Height | mm | 3000 | 3300 | 4000 |
| h4 - Height mast extended * | mm | 3805 | 4105 | 4805 |
| α / β - Mast inclination (front / rear) | ° | 6 / 12 | 6 / 12 | 6 / 12 |
| Residual capacity without attachment (Industrial load chart) | kg | 4000 | 4000 | 4000 |
| Residual capacity with integrated side shift (Industrial load chart) | kg | 4000 | 4000 | 4000 |
| Residual capacity with hooked-on side shift (Industrial load chart) | 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 43 | FLT 48 | FLT 50 | FLT 55 | FLT 60 |
|---|---|---|---|---|---|---|
| h2 - Free lift | mm | 1218 | 1478 | 1548 | 1710 | 1928 |
| h1 - Height mast lowered * | mm | 2020 | 2280 | 2350 | 2515 | 2730 |
| h3 - Lifting Height | mm | 4000 | 4800 | 5000 | 5500 | 6000 |
| h4 - Height mast extended * | mm | 4805 | 5605 | 5805 | 6305 | 6805 |
| α / β - Mast inclination (front / rear) | ° | 6 / 12 | 6 / 6 | 6 / 6 | 3 / 6 | 3 / 6 |
| Residual capacity without attachment (Industrial load chart) | kg | 4000 | 4000 | 3800 | 3700 | 3600 |
| Residual capacity with integrated side shift (Industrial load chart) | kg | 4000 | 3900 | 3700 | 3600 | 3500 |
| Residual capacity with hooked-on side shift (Industrial load chart) | kg | 3800 | 3800 | 3700 | 3500 | 3400 |
| Height at max capacity | mm | 4000 | 4800 | 4000 | 4000 | 4000 |
| Height at max capacity with integrated sideshift | mm | 4000 | 4000 | 4000 | 4000 | 4000 |

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