Technical sheet :

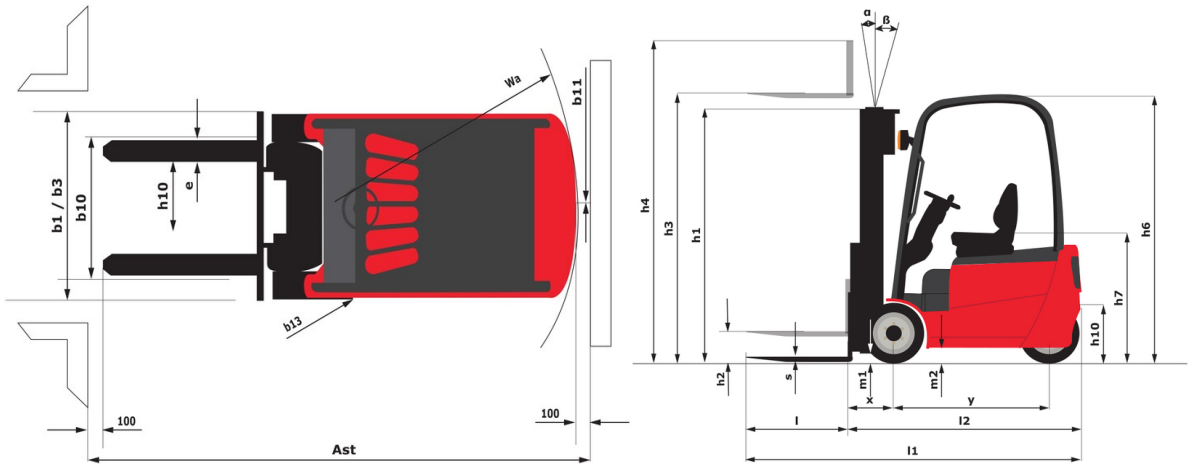
# ME 440



MANITOU
HANDLING YOUR WORLD

| | Technical characteristics | | Metric | Imperial |
|---|---|---|---|---|
| 1.1 | Manufacturer | | Manitou | Manitou |
| 1.2 | Model Name | | ME 440 | ME 440 |
| 1.3 | Power source | | Electrical | Electrical |
| 1.4 | Operator type | | Sitting | Sitting |
| 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 | 550 mm | 22 in |
| 1.9 | Wheelbase | y | 2000 mm | 79 in |
| | **Weight** | | | |
| 2.1 | Service weight | | 6600 kg | 14551 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 9440 kg / 1160 kg | 20812 lb / 2557 lb |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 3960 kg / 2640 kg | 8730 lb / 5820 lb |
| | **Wheels** | | | |
| 3.1 | Tires type | | PPS | PPS |
| 3.2 | Dimensions of front wheels | | 250/15 | 250/15 |
| 3.3 | Dimensions of rear wheels | | 7.00-12 | 7.00-12 |
| 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 | 1130 mm | 44 in |
| 3.7 | Rear wheel gauge | b11 | 1100 mm | 43 in |
| | **Dimensions** | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 2300 mm | 91 in |
| 4.8 | Seat height/stand height | h7 | 1235 mm | 49 in |
| 4.12 | Height of towing bar (coupling height) | h10 | 460 mm | 18 in |
| 4.19 | Overall length | l1 | 4165 mm | 164 in |
| 4.20 | Length to face of forks | l2 | 3015 mm | 119 in |
| 4.21 | Overall width | b1 | 1380 mm | 54 in |
| 4.22 | Forks section / width / length | s / e / l | 122 mm x 1150 mm x 50 mm | 5 in x 45 in x 2 in |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 3A | 3A |
| 4.24 | Fork carriage width | b3 | 1100 mm | 43 in |
| 4.31 | Ground clearance below mast | m1 | 110 mm | 4 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 219 mm | 9 in |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 4470 mm | 176 in |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 4670 mm | 184 in |
| 4.35 | Turning radius | Wa | 2720 mm | 107 in |
| 4.36 | Internal turning radius (over tyres) | b13 | 805 mm | 32 in |
| | **Performances** | | | |
| 5.1 | Travel speed (laden / unladen) | | 13.50 km/h-14 km/h | 8 mph-9 mph |
| 5.2 | Lifting speed (laden / unladen) | | 0.26 m/s-0.40 m/s | 0.85 ft/s-1 ft/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.50 m/s-0.30 m/s | 2 ft/s-0.98 ft/s |
| 5.5 | Drawbar pull (Laden) | | 2400 daN | 2400 daN |
| 5.7 | Gradeability (laden / unladen) | | 15 % / 16 % | 15 % / 16 % |
| 5.10 | Service brake | | Hydraulic | Hydraulic |
| | **Engine** | | | |
| 6.1 | Drive motor rating S2 60 min | | 16.60 kW | 16.60 kW |
| 6.2 | Lift motor rating at S3 15% | | 25.40 kW | 25.40 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN43536 A | DIN43536 A |
| 6.4 | Battery voltage / capacity | | 80 V / 700 Ah | 80 V / 700 Ah |
| 6.6 | Energy consumption | | 12.50 kWh | 12.50 kWh |
| | **Miscellaneous** | | | |
| 8.1 | Type of drive control | | Electronic | Electronic |
| 8.2 | Working hydraulic pressure for attachments | | 210 bar | 3046 PSI |
| 8.3 | Oil flow rate for attachments | | 65 l/min | 17 US gpm |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 78 dB | < 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 | in (mm) | 86 (2185) | 91.9 (2335) | 95.9 (2435) | 107.7 (2735) | 114.2 (2900) | 118.5 (3010) | 125 (3175) | 129.3 (3285) |
| h2 - Mast free lift | in (mm) | 5.9 (150) | 5.9 (150) | 5.9 (150) | 5.9 (150) | 5.9 (150) | 5.9 (150) | 5.9 (150) | 5.9 (150) |
| h3 - Mast lifting height | in (mm) | 118.1 (3000) | 129.9 (3300) | 137.8 (3500) | 157.5 (4000) | 169.3 (4300) | 177.2 (4500) | 189 (4800) | 196.9 (5000) |
| h4 - Mast extended height | in (mm) | 148.4 (3770) | 160.2 (4070) | 168.1 (4270) | 187.8 (4770) | 199.6 (5070) | 207.5 (5270) | 219.3 (5570) | 227.2 (5770) |
| Residual capacity at max height | lb (kg) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) |
| Residual capacity with integrated side shift at max heigth | lb (kg) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) | 8818 (4000) |
| Residual capacity with hooked-on side shift at max heigth | lb (kg) | 8378 (3800) | 8378 (3800) | 8378 (3800) | 8378 (3800) | 8378 (3800) | 8378 (3800) | 8378 (3800) | 8378 (3800) |
| Height at max capacity | in (mm) | 118.1 (3000) | 129.9 (3300) | 137.8 (3500) | 157.5 (4000) | 169.3 (4300) | 177.2 (4500) | 189 (4800) | 196.9 (5000) |
| Height at max capacity with integrated sideshift | in (mm) | 118.1 (3000) | 129.9 (3300) | 137.8 (3500) | 157.5 (4000) | 169.3 (4300) | 177.2 (4500) | 189 (4800) | 196.9 (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 | in (mm) | 85.3 (2166) | 91.2 (2316) | 105 (2666) |
| h2 - Mast free lift | in (mm) | 53.7 (1365) | 59.6 (1515) | 73.4 (1865) |
| h3 - Mast lifting height | in (mm) | 118.1 (3000) | 129.9 (3300) | 157.5 (4000) |
| h4 - Mast extended height | in (mm) | 149.8 (3805) | 161.6 (4105) | 189.2 (4805) |
| Residual capacity at max height | lb (kg) | 8818 (4000) | 8818 (4000) | 8818 (4000) |
| Residual capacity with integrated side shift at max heigth | lb (kg) | 8818 (4000) | 8818 (4000) | 8818 (4000) |
| Residual capacity with hooked-on side shift at max heigth | lb (kg) | 8378 (3800) | 8378 (3800) | 8378 (3800) |
| Height at max capacity | in (mm) | 118.1 (3000) | 129.9 (3300) | 157.5 (4000) |
| Height at max capacity with integrated sideshift | in (mm) | 118.1 (3000) | 129.9 (3300) | 157.5 (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 | in (mm) | 83.5 (2120) | 89.8 (2280) | 92.5 (2350) | 99 (2515) | 107.5 (2730) |
| h2 - Mast free lift | in (mm) | 48 (1218) | 58.2 (1478) | 60.9 (1548) | 67.3 (1710) | 75.9 (1928) |
| h3 - Mast lifting height | in (mm) | 157.5 (4000) | 189 (4800) | 196.9 (5000) | 216.5 (5500) | 236.2 (6000) |
| h4 - Mast extended height | in (mm) | 189.2 (4805) | 220.7 (5605) | 228.5 (5805) | 248.2 (6305) | 267.9 (6805) |
| Residual capacity at max height | lb (kg) | 8818 (4000) | 8818 (4000) | 8378 (3800) | 8157 (3700) | 7937 (3600) |
| Residual capacity with integrated side shift at max heigth | lb (kg) | 8818 (4000) | 8598 (3900) | 8157 (3700) | 7937 (3600) | 7716 (3500) |
| Residual capacity with hooked-on side shift at max heigth | lb (kg) | 8378 (3800) | 8378 (3800) | 8157 (3700) | 7716 (3500) | 7496 (3400) |
| Height at max capacity | in (mm) | 98.4 (2500) | 98.4 (2500) | 98.4 (2500) | 98.4 (2500) | 98.4 (2500) |

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