Technical sheet:

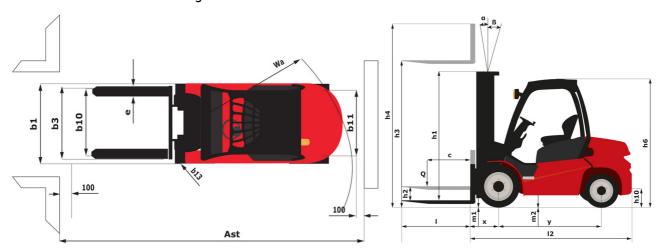
MI 50 D US





| | | MI 50 D US CI | MISODUS Created on August 31, 2025 at 1:35 AM UTC | | | |
|-------|---|---------------|---|--|--|--|
| | Technical characteristics | | Imperial | | | |
| 1.1 | Manufacturer | | Manitou | | | |
| 1.2 | Model Name | | MI 50 D US | | | |
| 1.3 | Power source | | Diesel | | | |
| 1.4 | Operator type | | Seated | | | |
| 1.5 | Max. capacity | Q | 11023 lb | | | |
| 1.6 | Load center of gravity | c | 20 in | | | |
| 1.8 | Load distance, centre of drive axle to fork | x | 22 in | | | |
| 1.9 | Wheelbase | y | 85 in | | | |
| | Standard mast reference of the machine | , | FVD 30 | | | |
| | Weight | | . 15 55 | | | |
| 2.1 | Service weight | | 14991 lb | | | |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 23038 lb / 2976 lb | | | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 6614 lb / 8378 lb | | | |
| 2.3 | Wheels | | 0014 18 / 0370 18 | | | |
| 3.1 | Tires type | | Pneumatic | | | |
| 3.2 | Dimensions of front wheels | | 300-15-18PR | | | |
| 3.3 | Dimensions of rear wheels | | 7.00-12-12PR | | | |
| 3.5 | Number of front wheels / rear wheels | | 2 / 2 | | | |
| 3.5.2 | Number of drive wheels | | 2 | | | |
| 3.6 | | b10 | 47 in | | | |
| 3.7 | Front wheel gauge | b10 | 44 in | | | |
| 3.7 | Rear wheel gauge Dimensions | DII | 44 111 | | | |
| 4.7 | | he | 94 in | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | | | | |
| 4.8 | Seat height/stand height | h7 | 54 in | | | |
| 4.12 | Height of towing bar (coupling height) | h10 | 18 in | | | |
| 4.19 | Overall length | l1 | 176 in | | | |
| 4.20 | Length to face of forks | 12 | 128 in | | | |
| 4.21 | Overall width | b1 | 59 in | | | |
| 4.21 | Overall width - Single wheels | b1 | 59 in | | | |
| 4.22 | Forks section / width / length | s / e / l | 2 in x 6 in x 48 in | | | |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 3A | | | |
| 4.24 | Fork carriage width | b3 | 49 in | | | |
| 4.31 | Ground clearance below mast | m1 | 7 in | | | |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 9 in | | | |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 189 in | | | |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 194 in | | | |
| 4.35 | Tuming radius | Wa | 115 in | | | |
| 4.36 | Internal turning radius (over tyres) | b13 | 5 in | | | |
| F.4 | Performances | | 44 145 1 | | | |
| 5.1 | Travel speed (laden / unladen) | | 14 mph-15 mph | | | |
| 5.2 | Lifting speed (laden / unladen) | | 1 ft/s-1 ft/s | | | |
| 5.3 | Lowering speed (laden / unladen) | | 2 ft/s-2 ft/s | | | |
| 5.5 | Drawbar pull (Laden / Unladen) | | 4000 daN / 2100 daN | | | |
| 5.7 | Gradeability (laden / unladen) | | 31 % / 34 % | | | |
| 5.10 | Service brake | | Hydraulic | | | |
| | Transmission type | | Torque converter | | | |
| | Engine | | | | | |
| 7.1 | Engine brand / model / norm | | Cummins / QSF2.8T4F / Tier 4 final | | | |
| 7.2 | I.C. Engine power rating | | 55 kW | | | |
| 7.3 | Rated speed | | 2600 rpm | | | |
| 7.4 | Number of cylinders / Capacity of cylinders | | 4 - 171 in³ | | | |
| | Miscellaneous | | | | | |
| 8.2 | Working hydraulic pressure for attachments | | 2321 PSI | | | |
| 8.3 | Oil flow rate for attachments | | 24 US gpm | | | |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 84 dB | | | |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 84 dB | | | |

MI 50 D US - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | |
|--|----|
| α - Mast/fork carriage tilt, forward | ۰ |
| β - Mast/fork carriage tilt, backward | ۰ |
| h1 - Mast lowered height | in |
| h2 - Mast free lift | in |
| h3 - Mast lifting height | in |
| h4 - Mast extended height | in |
| Residual capacity at max height | lb |
| Residual capacity with integrated side shift at max heigth | lb |
| Height at max capacity | in |
| Height at max capacity with integrated sideshift | in |

| FVD 30 | FVD 33 | FVD 35 | FVD 37 | FVD 40 | FVD 45 | FVD 50 |
|--------|--------|--------|--------|--------|--------|--------|
| 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 88.4 | 94.3 | 98.2 | 102.2 | 110 | 120.9 | 131.7 |
| 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| 118.1 | 129.9 | 137.8 | 145.7 | 157.5 | 177.2 | 196.9 |
| 171.9 | 183.7 | 191.5 | 199.4 | 211.2 | 230.9 | 250.6 |
| 11023 | 11023 | 11023 | 11023 | 11023 | 10362 | 9039 |
| 11023 | 11023 | 11023 | 11023 | 11023 | 10141 | 8818 |
| 118.1 | 129.9 | 137.8 | 145.7 | 157.5 | 157.5 | 157.5 |
| 118.1 | 129.9 | 137.8 | 145.7 | 157.5 | 157.5 | 157.5 |

| Free Lift Duplex (FLD) | | FLD 30 | FLD 33 | FLD 35 | FLD 37 |
|--|----|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ۰ | 6 | 6 | 6 | 6 |
| β - Mast/fork carriage tilt, backward | ۰ | 12 | 12 | 12 | 12 |
| h1 - Mast lowered height | in | 87.6 | 93.5 | 97.5 | 101.4 |
| h2 - Mast free lift | in | 53.7 | 59.6 | 63.5 | 67.5 |
| h3 - Mast lifting height | in | 118.1 | 129.9 | 137.8 | 145.7 |
| h4 - Mast extended height | in | 171.9 | 183.7 | 191.5 | 199.4 |
| Residual capacity at max height | lb | 11023 | 11023 | 11023 | 11023 |
| Residual capacity with integrated side shift at max heigth | lb | 11023 | 11023 | 11023 | 11023 |
| Height at max capacity | in | 118.1 | 129.9 | 137.8 | 145.7 |
| Height at max capacity with integrated sideshift | in | 118.1 | 129.9 | 137.8 | 145.7 |

| | FLT 40 | FLT 43 | FLT 45 | FLT 47 | FLT 50 | FLT 55 | FLT 60 |
|----|----------------------|--|--|---|---|---|---|
| ۰ | 6 | 6 | 6 | 6 | 6 | 3 | 3 |
| ۰ | 12 | 6 | 6 | 6 | 6 | 6 | 6 |
| in | 81.9 | 85.8 | 88.5 | 90.9 | 94.9 | 101.4 | 109.8 |
| in | 48.1 | 52 | 54.7 | 57.2 | 61.1 | 67.6 | 76.1 |
| in | 157.5 | 169.3 | 177.2 | 185 | 196.9 | 216.5 | 236.2 |
| in | 211.2 | 223 | 231.5 | 239 | 250.8 | 270.5 | 290.6 |
| lb | 10692 | 10362 | 10141 | 9480 | 8598 | 7496 | 5952 |
| lb | 10472 | 10141 | 9921 | 9259 | 8378 | 7275 | 5732 |
| in | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 |
| | in in in Ib | ° 6 ° 12 in 81.9 in 48.1 in 157.5 in 211.2 lb 10692 lb 10472 | 6 6 6 12 6 in 81.9 85.8 in 48.1 52 in 157.5 169.3 in 211.2 223 lb 10692 10362 lb 10472 10141 | ° 6 6 6 ° 12 6 6 in 81.9 85.8 88.5 in 48.1 52 54.7 in 157.5 169.3 177.2 in 211.2 223 231.5 lb 10692 10362 10141 lb 10472 10141 9921 | ° 6 6 6 6 ° 12 6 6 6 in 81.9 85.8 88.5 90.9 in 48.1 52 54.7 57.2 in 157.5 169.3 177.2 185 in 211.2 223 231.5 239 lb 10692 10362 10141 9480 lb 10472 10141 9921 9259 | ° 6 6 6 6 6 ° 12 6 6 6 6 in 81.9 85.8 88.5 90.9 94.9 in 48.1 52 54.7 57.2 61.1 in 157.5 169.3 177.2 185 196.9 in 211.2 223 231.5 239 250.8 lb 10692 10362 10141 9480 8598 lb 10472 10141 9921 9259 8378 | ° 6 |





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