

Technical sheet :

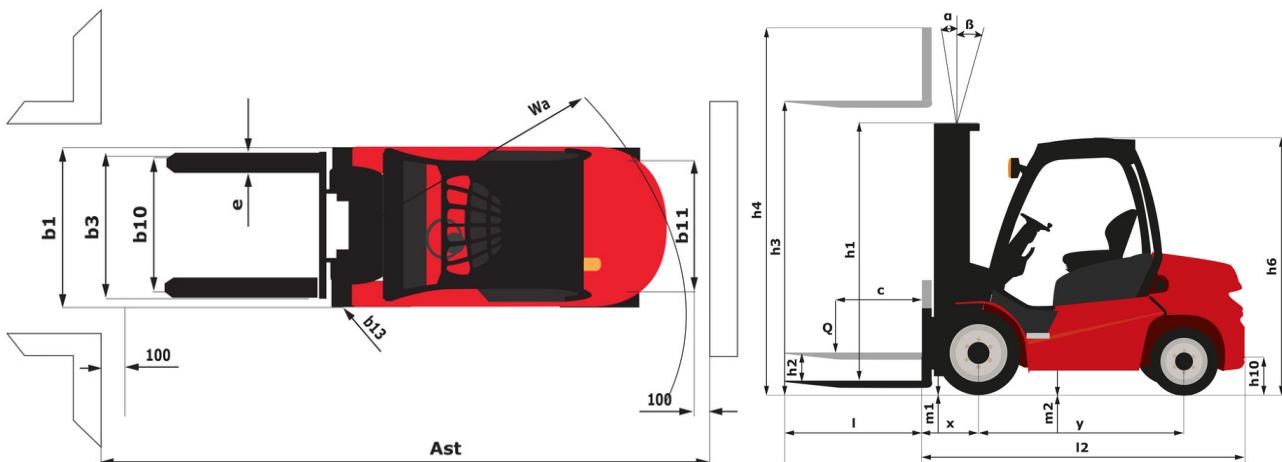
MI 50 G US



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | Imperial | |
|---------------------------|---|-------------------------|--|
| 1.1 | Manufacturer | Manitou | |
| 1.2 | Model Name | MI 50 G US | |
| 1.3 | Power source | LPG | |
| 1.4 | Operator type | Seated | |
| 1.5 | Max. capacity | 11023 lb | |
| 1.6 | Load center of gravity | 20 in | |
| 1.8 | Load distance, centre of drive axle to fork | 22 in | |
| 1.9 | Wheelbase | 85 in | |
| Weight | | Weight | |
| 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 | |
| Wheels | | Wheels | |
| 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 | Front wheel gauge | 47 in | |
| 3.7 | Rear wheel gauge | 44 in | |
| Dimensions | | Dimensions | |
| 4.8 | Seat height/stand height | 54 in | |
| 4.7 | Height of overhead guard (cabin) | 94 in | |
| 4.12 | Height of towing bar (coupling height) | 18 in | |
| 4.19 | Overall length | 176 in | |
| 4.20 | Length to face of forks | 128 in | |
| 4.21 | Overall width | 59 in | |
| 4.21 | Overall width - Single wheels | 59 in | |
| 4.22 | Forks section / width / length | 2 in x 6 in x 48 in | |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | 3A | |
| 4.24 | Fork carriage width | 49 in | |
| 4.31 | Ground clearance below mast | 7 in | |
| 4.32 | Ground clearance at centre of wheelbase | 9 in | |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | 189 in | |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | 194 in | |
| 4.35 | Turning radius | 115 in | |
| 4.36 | Internal turning radius (over tyres) | 5 in | |
| Performances | | Performances | |
| 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) | 3800 daN / 2300 daN | |
| 5.7 | Gradeability (laden / unladen) | 22 % / 32 % | |
| 5.10 | Service brake | Hydraulic | |
| | Transmission type | Torque converter | |
| Engine | | Engine | |
| 7.1 | Engine brand / model | PSI / 4,3L | |
| 7.2 | Engine power (Hp / kW) | 101 Hp/74 kW | |
| 7.3 | Rated speed | 2300 rpm | |
| 7.4 | Number of cylinders / Capacity of cylinders | 6 - 262 in ³ | |
| Miscellaneous | | 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 | 83 dB | |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | 83 dB | |

MI 50 G US - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | FVD 30 | FVD 33 | FVD 35 | FVD 37 | FVD 40 | FVD 45 | FVD 50 |
|--|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 6 | 6 | 6 | 6 | 6 | 6 |
| β - Mast/fork carriage tilt, backward | ° | 12 | 12 | 12 | 12 | 12 | 12 |
| h1 - Mast lowered height | in | 88.4 | 94.3 | 98.2 | 102.2 | 110 | 120.9 |
| h2 - Mast free lift | in | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |
| h3 - Mast lifting height | in | 118.1 | 129.9 | 137.8 | 145.7 | 157.5 | 177.2 |
| h4 - Mast extended height | in | 171.9 | 183.7 | 191.5 | 199.4 | 211.2 | 230.9 |
| Residual capacity at max height | lb | 11023 | 11023 | 11023 | 11023 | 11023 | 10362 |
| Residual capacity with integrated side shift at max height | lb | 11023 | 11023 | 11023 | 11023 | 11023 | 8818 |
| Height at max capacity | in | 118.1 | 129.9 | 137.8 | 145.7 | 157.5 | 157.5 |
| Height at max capacity with integrated sideshift | in | 118.1 | 129.9 | 137.8 | 145.7 | 157.5 | 157.5 |
| Free Lift Duplex (FLD) | FLD 30 | FLD 33 | FLD 35 | FLD 37 | | | |
| α - Mast/fork carriage tilt, forward | ° | 6 | 6 | 6 | 6 | | |
| β - Mast/fork carriage tilt, backward | ° | 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 height | 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 | | |
| Free Lift Triplex (FLT) | FLT 40 | FLT 43 | FLT 45 | FLT 47 | FLT 50 | FLT 55 | FLT 60 |
| α - Mast/fork carriage tilt, forward | ° | 6 | 6 | 6 | 6 | 3 | 3 |
| β - Mast/fork carriage tilt, backward | ° | 12 | 6 | 6 | 6 | 6 | 6 |
| h1 - Mast lowered height | in | 81.9 | 85.8 | 88.5 | 90.9 | 94.9 | 101.4 |
| h2 - Mast free lift | in | 48.1 | 52 | 54.7 | 57.2 | 61.1 | 67.6 |
| h3 - Mast lifting height | in | 157.5 | 169.3 | 177.2 | 185 | 196.9 | 216.5 |
| h4 - Mast extended height | in | 211.2 | 223 | 231.5 | 239 | 250.8 | 270.5 |
| Residual capacity at max height | lb | 10692 | 10362 | 10141 | 9480 | 8598 | 7496 |
| Residual capacity with integrated side shift at max height | lb | 10472 | 10141 | 9921 | 9259 | 8378 | 7275 |
| Height at max capacity | in | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 | 98.4 |



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Head Office

B.P. 249 - 430 rue de l'Aubinière
44150 Ancenis Cedex - France
Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97
www.manitou.com



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