

Technical sheet :

# MI 30 G US

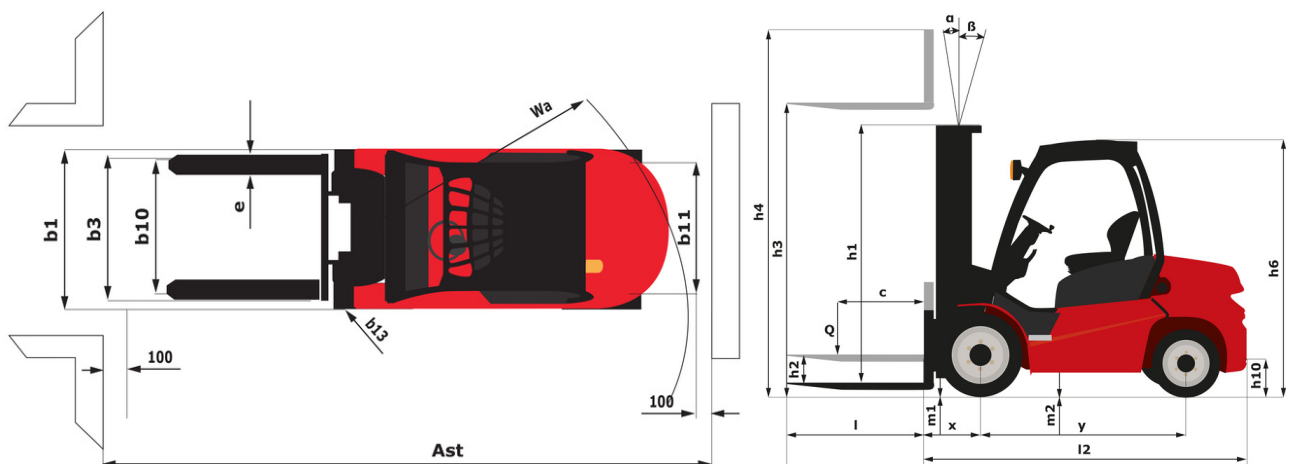
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 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Imperial              |
|-------|---|-----------|-----------------------|
| 1.1   | Manufacturer  |           | Manitou               |
| 1.2   | Model Name  |           | MI 30 G US            |
| 1.3   | Power source  |           | Lpg                   |
| 1.4   | Operator type   |           | Seated                |
| 1.5   | Max. capacity   | Q         | 6614 lb               |
| 1.6   | Load center of gravity  | c         | 20 in                 |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 19 in                 |
| 1.9   | Wheelbase   | y         | 67 in                 |
|       | Standard mast reference of the machine                          |           | FVD 33                |
|       | <b>Weight</b>   |           |                       |
| 2.1   | Service weight  |           | 9899 lb               |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 14462 lb / 2050 lb    |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 3979 lb / 5919 lb     |
|       | <b>Wheels</b>   |           |                       |
| 3.1   | Tires type  |           | Solid tires           |
| 3.2   | Dimensions of front wheels                                      |           | 28-9-15 12            |
| 3.3   | Dimensions of rear wheels                                       |           | 6.50-10 10            |
| 3.5   | Number of front wheels / rear wheels                            |           | 2 / 2                 |
| 3.5.2 | Number of drive wheels  |           | 2                     |
| 3.6   | Front wheel gauge   | b10       | 40 in                 |
| 3.7   | Rear wheel gauge  | b11       | 38 in                 |
|       | <b>Dimensions</b>   |           |                       |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 84 in                 |
| 4.8   | Seat height/stand height  | h7        | 48 in                 |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 14 in                 |
| 4.19  | Overall length  | l1        | 152 in                |
| 4.20  | Length to face of forks   | l2        | 107 in                |
| 4.21  | Overall width   | b1        | 48 in                 |
| 4.21  | Overall width - Single wheels                                   | b1        | 48 in                 |
| 4.22  | Forks section / width / length                                  | s / e / l | 2 in x 5 in x 45 in   |
| 4.23  | Fork carriage ISO 2328 (class/form) A/B                         |           | 3A                    |
| 4.24  | Fork carriage width   | b3        | 43 in                 |
| 4.31  | Ground clearance below mast                                     | m1        | 5 in                  |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 8 in                  |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 163 in                |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 171 in                |
| 4.35  | Turning radius  | Wa        | 97 in                 |
| 4.36  | Internal turning radius (over tyres)                            | b13       | 6 in                  |
|       | <b>Performances</b>   |           |                       |
| 5.1   | Travel speed (laden / unladen)                                  |           | 11 mph-11 mph         |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 1 ft/s-2 ft/s         |
| 5.3   | Lowering speed (laden / unladen)                                |           | 2 ft/s-2 ft/s         |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 1740 daN / 1080 daN   |
| 5.7   | Gradeability (laden / unladen)                                  |           | 20 % / 20 %           |
| 5.10  | Service brake   |           | Hydraulic             |
|       | Transmission type   |           | Torque converter      |
|       | <b>Engine</b>   |           |                       |
| 7.1   | Engine brand / model  |           | GCT (ex-Nissan) / K25 |
| 7.2   | I.C. Engine power rating  |           | 46 kW                 |
| 7.3   | Rated speed   |           | 2400 rpm              |
| 7.4   | Number of cylinders / Capacity of cylinders                     |           | 4 - 152 in³           |
|       | <b>Miscellaneous</b>  |           |                       |
| 8.2   | Working hydraulic pressure for attachments                      |           | 2321 PSI              |
| 8.3   | Oil flow rate for attachments                                   |           | 19 US gpm             |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 80 dB               |
| 8.4   | Sound level at the driver's ear according to DIN 12 053         |           | 80 dB                 |

## MI 30 G US - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                               |    | FVD 33 | FVD 37 | FVD 40 |
|--|----|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                       | °  | 6      | 6      | 6      |
| β - Mast/fork carriage tilt, backward                      | °  | 12     | 12     | 12     |
| h1 - Mast lowered height                                   | in | 86.6   | 96.5   | 104.3  |
| h2 - Mast free lift  | in | 5.7    | 5.7    | 5.7    |
| h3 - Mast lifting height                                   | in | 129.9  | 145.7  | 157.5  |
| h4 - Mast extended height                                  | in | 158.9  | 174.6  | 186.4  |
| Residual capacity at max height                            | lb | 6614   | 6614   | 6614   |
| Residual capacity with integrated side shift at max height | lb | 6614   | 6614   | 6614   |
| Height at max capacity                                     | in | 129.9  | 145.7  | 157.5  |
| Height at max capacity with integrated sideshift           | in | 129.9  | 145.7  | 157.5  |

| Free Lift Duplex (FLD)                                     |    | FLD 33 | FLD 37 | FLD 40 |
|--|----|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                       | °  | 6      | 6      | 6      |
| β - Mast/fork carriage tilt, backward                      | °  | 12     | 12     | 12     |
| h1 - Mast lowered height                                   | in | 87.8   | 95.7   | 101.6  |
| h2 - Mast free lift  | in | 58.1   | 65.9   | 71.9   |
| h3 - Mast lifting height                                   | in | 129.9  | 145.7  | 157.5  |
| h4 - Mast extended height                                  | in | 159.6  | 175.4  | 187.2  |
| Residual capacity at max height                            | lb | 6614   | 6614   | 6614   |
| Residual capacity with integrated side shift at max height | lb | 6614   | 6614   | 6614   |
| Height at max capacity                                     | in | 129.9  | 145.7  | 157.5  |
| Height at max capacity with integrated sideshift           | in | 129.9  | 145.7  | 157.5  |

| Free Lift Triplex (FLT)                                    |    | FLT 43 | FLT 45 | FLT 47 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|--|----|--------|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                       | °  | 6      | 6      | 6      | 6      | 6      | 3      | 3      | 3      |
| β - Mast/fork carriage tilt, backward                      | °  | 6      | 6      | 6      | 6      | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height                                   | in | 83.3   | 85.2   | 87.2   | 89.2   | 91.1   | 99     | 108.9  | 114.8  |
| h2 - Mast free lift  | in | 53.5   | 55.5   | 57.5   | 59.4   | 61.4   | 69.3   | 79.1   | 85     |
| h3 - Mast lifting height                                   | in | 169.3  | 177.2  | 185    | 189    | 196.9  | 216.5  | 236.2  | 255.9  |
| h4 - Mast extended height                                  | in | 199    | 208.9  | 214.8  | 218.7  | 226.6  | 246.3  | 267.9  | 285.6  |
| Residual capacity at max height                            | lb | 6504   | 6393   | 6173   | 6173   | 5512   | 4079   | 3086   | 2866   |
| Residual capacity with integrated side shift at max height | lb | 6283   | 6173   | 5952   | 5952   | 5291   | 3858   | 2866   | 2756   |
| Residual capacity with hooked-on side shift at max height  | lb |        |        |        |        |        |        |        | 2756   |
| Height at max capacity                                     | in | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 157.5  | 98.4   |
| Height at max capacity with integrated sideshift           | in | 157.5  | 157.5  | 157.5  | 157.5  |        |        |        |        |



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