

Technical sheet :

# MI 30 D

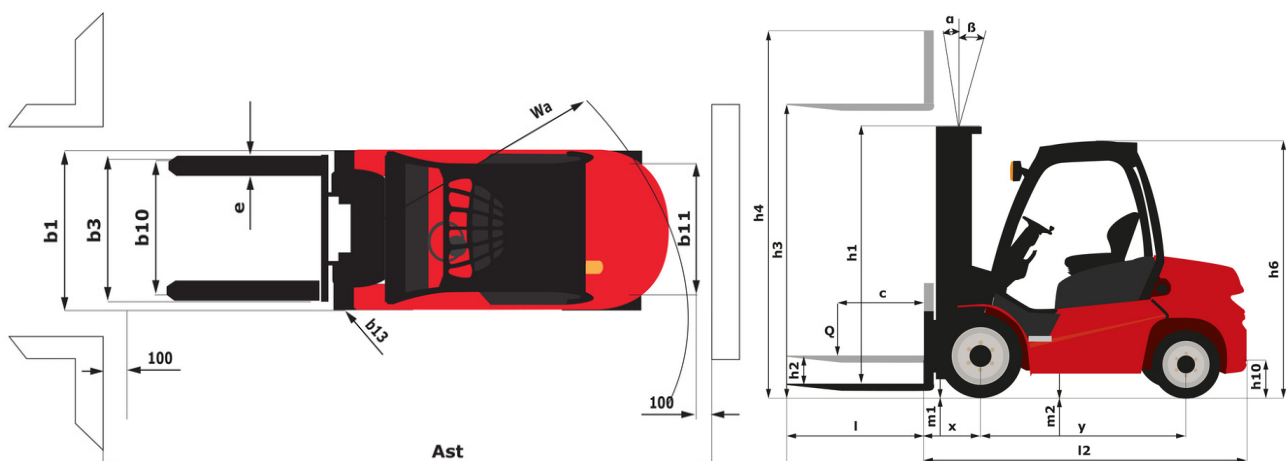
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 **MANITOU**  
HANDLING YOUR WORLD

|       | Technical characteristics                                       |           | Metric                   | Imperial               |
|-------|-----------------------------------------------------------------|-----------|--------------------------|------------------------|
| 1.1   | Manufacturer                                                    |           | Manitou                  | Manitou                |
| 1.2   | Model Name                                                      |           | MI 30 D                  | MI 30 D                |
| 1.3   | Power source                                                    |           | Diesel                   | Diesel                 |
| 1.4   | Operator type                                                   |           | Seated                   | Seated                 |
| 1.5   | Max. capacity                                                   | Q         | 3000 kg                  | 6614 lb                |
| 1.6   | Load center of gravity                                          | c         | 500 mm                   | 20 in                  |
| 1.8   | Load distance, centre of drive axle to fork                     | x         | 480 mm                   | 19 in                  |
| 1.9   | Wheelbase                                                       | y         | 1700 mm                  | 67 in                  |
|       | <b>Weight</b>                                                   |           |                          |                        |
| 2.1   | Service weight                                                  |           | 4610 kg                  | 10163 lb               |
| 2.2   | Weight on front axle (laden) / rear axle (laden)                |           | 6650 kg / 960 kg         | 14661 lb / 2116 lb     |
| 2.3   | Weight on front axle (Unladen) / rear axle (Unladen)            |           | 1860 kg / 2750 kg        | 4101 lb / 6063 lb      |
|       | <b>Wheels</b>                                                   |           |                          |                        |
| 3.1   | Tires type                                                      |           | Solid tires              | Solid tires            |
| 3.2   | Dimensions of front wheels                                      |           | 28-9-15 12               | 28-9-15 12             |
| 3.3   | Dimensions of rear wheels                                       |           | 6.50-10 10               | 6.50-10 10             |
| 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       | 1005 mm                  | 40 in                  |
| 3.7   | Rear wheel gauge                                                | b11       | 975 mm                   | 38 in                  |
|       | <b>Dimensions</b>                                               |           |                          |                        |
| 4.7   | Height of overhead guard (cabin)                                | h6        | 2130 mm                  | 84 in                  |
| 4.8   | Seat height/stand height                                        | h7        | 1215 mm                  | 48 in                  |
| 4.12  | Height of towing bar (coupling height)                          | h10       | 355 mm                   | 14 in                  |
| 4.19  | Overall length                                                  | l1        | 3875 mm                  | 153 in                 |
| 4.20  | Length to face of forks                                         | l2        | 2715 mm                  | 107 in                 |
| 4.21  | Overall width                                                   | b1        | 1225 mm                  | 48 in                  |
| 4.21  | Overall width - Single wheels                                   | b1        | 1225 mm                  | 48 in                  |
| 4.22  | Forks section / width / length                                  | s / e / l | 45 mm x 122 mm x 1150 mm | 2 in x 5 in x 45 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        | 130 mm                   | 5 in                   |
| 4.32  | Ground clearance at centre of wheelbase                         | m2        | 200 mm                   | 8 in                   |
| 4.33  | Aisle Width for pallets 1000 x 1200 crossways                   | Ast       | 4140 mm                  | 163 in                 |
| 4.34  | Aisle width for 800 x 1200 pallet lengthways                    | Ast       | 4340 mm                  | 171 in                 |
| 4.35  | Turning radius                                                  | Wa        | 2460 mm                  | 97 in                  |
| 4.36  | Internal turning radius (over tyres)                            | b13       | 160 mm                   | 6 in                   |
|       | <b>Performances</b>                                             |           |                          |                        |
| 5.1   | Travel speed (laden / unladen)                                  |           | 18 km/h-18.50 km/h       | 11 mph-11 mph          |
| 5.2   | Lifting speed (laden / unladen)                                 |           | 0.45 m/s-0.52 m/s        | 1 ft/s-2 ft/s          |
| 5.3   | Lowering speed (laden / unladen)                                |           | 0.43 m/s-0.48 m/s        | 1 ft/s-2 ft/s          |
| 5.5   | Drawbar pull (Laden / Unladen)                                  |           | 1600 daN / 1380 daN      | 1600 daN / 1380 daN    |
| 5.7   | Gradeability (laden / unladen)                                  |           | 20 % / 20 %              | 20 % / 20 %            |
| 5.10  | Service brake                                                   |           | Hydraulic                | Hydraulic              |
|       | Transmission type                                               |           | Torque converter         | Torque converter       |
|       | <b>Engine</b>                                                   |           |                          |                        |
| 7.1   | Engine brand / model                                            |           | Yanmar / 4TNV94L-BXPHZ   | Yanmar / 4TNV94L-BXPHZ |
| 7.2   | I.C. Engine power rating                                        |           | 35 kW                    | 35 kW                  |
| 7.3   | Rated speed                                                     |           | 2400 rpm                 | 2400 rpm               |
| 7.4   | Number of cylinders / Capacity of cylinders                     |           | 4 - 3054 cm³             | 4 - 186 in³            |
|       | <b>Miscellaneous</b>                                            |           |                          |                        |
| 8.2   | Working hydraulic pressure for attachments                      |           | 160 bar                  | 2321 PSI               |
| 8.3   | Oil flow rate for attachments                                   |           | 69 l/min                 | 18 US gpm              |
| 8.4   | Measured/guaranteed mean noise level at the ear of the operator |           | < 84 dB                  | < 84 dB                |
| 8.4   | Sound level at the driver's ear according to DIN 12 053         |           | 84 dB                    | 84 dB                  |

## MI 30 D - 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 (mm) | 86.6 (2200)  | 96.5 (2450)  | 104.3 (2650) |
| h2 - Mast free lift                                        | in (mm) | 5.7 (145)    | 5.7 (145)    | 5.7 (145)    |
| h3 - Mast lifting height                                   | in (mm) | 129.9 (3300) | 145.7 (3700) | 157.5 (4000) |
| h4 - Mast extended height                                  | in (mm) | 158.9 (4035) | 174.6 (4435) | 186.4 (4735) |
| Residual capacity at max height                            | lb (kg) | 6614 (3000)  | 6614 (3000)  | 6614 (3000)  |
| Residual capacity with integrated side shift at max height | lb (kg) | 6614 (3000)  | 6614 (3000)  | 6614 (3000)  |
| Height at max capacity                                     | in (mm) | 129.9 (3300) | 145.7 (3700) | 157.5 (4000) |
| Height at max capacity with integrated sideshift           | in (mm) | 129.9 (3300) | 145.7 (3700) | 157.5 (4000) |

| 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 (mm) | 87.8 (2230)  | 95.7 (2430)  | 101.6 (2580) |
| h2 - Mast free lift                                        | in (mm) | 58.1 (1475)  | 65.9 (1675)  | 71.9 (1825)  |
| h3 - Mast lifting height                                   | in (mm) | 129.9 (3300) | 145.7 (3700) | 157.5 (4000) |
| h4 - Mast extended height                                  | in (mm) | 159.6 (4055) | 175.4 (4455) | 187.2 (4755) |
| Residual capacity at max height                            | lb (kg) | 6614 (3000)  | 6614 (3000)  | 6614 (3000)  |
| Residual capacity with integrated side shift at max height | lb (kg) | 6614 (3000)  | 6614 (3000)  | 6614 (3000)  |
| Height at max capacity                                     | in (mm) | 129.9 (3300) | 145.7 (3700) | 157.5 (4000) |
| Height at max capacity with integrated sideshift           | in (mm) | 129.9 (3300) | 145.7 (3700) | 157.5 (4000) |

| 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 (mm) | 83.3 (2115)  | 85.2 (2165)  | 87.2 (2215)  | 89.2 (2265)  | 91.1 (2315)  | 99 (2515)    | 108.9 (2765) | 114.8 (2915) |
| h2 - Mast free lift                                        | in (mm) | 53.5 (1360)  | 55.5 (1410)  | 57.5 (1460)  | 59.4 (1510)  | 61.4 (1560)  | 69.3 (1760)  | 79.1 (2010)  | 85 (2160)    |
| h3 - Mast lifting height                                   | in (mm) | 169.3 (4300) | 177.2 (4500) | 185 (4700)   | 189 (4800)   | 196.9 (5000) | 216.5 (5500) | 236.2 (6000) | 255.9 (6500) |
| h4 - Mast extended height                                  | in (mm) | 199 (5055)   | 208.9 (5305) | 214.8 (5455) | 218.7 (5555) | 226.6 (5755) | 246.3 (6255) | 267.9 (6805) | 285.6 (7255) |
| Residual capacity at max height                            | lb (kg) | 6504 (2950)  | 6393 (2900)  | 6173 (2800)  | 6173 (2800)  | 5512 (2500)  | 4079 (1850)  | 3086 (1400)  | 2866 (1300)  |
| Residual capacity with integrated side shift at max height | lb (kg) | 6283 (2850)  | 6173 (2800)  | 5952 (2700)  | 5952 (2700)  | 5291 (2400)  | 3858 (1750)  | 2866 (1300)  | 2756 (1250)  |
| Height at max capacity                                     | in (mm) | 157.5 (4000) | 157.5 (4000) | 157.5 (4000) | 157.5 (4000) | 157.5 (4000) | 157.5 (4000) | 157.5 (4000) | 98.4 (2500)  |
| Height at max capacity with integrated sideshift           | in (mm) | 157.5 (4000) | 157.5 (4000) | 157.5 (4000) | 157.5 (4000) |              |              |              |              |



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