

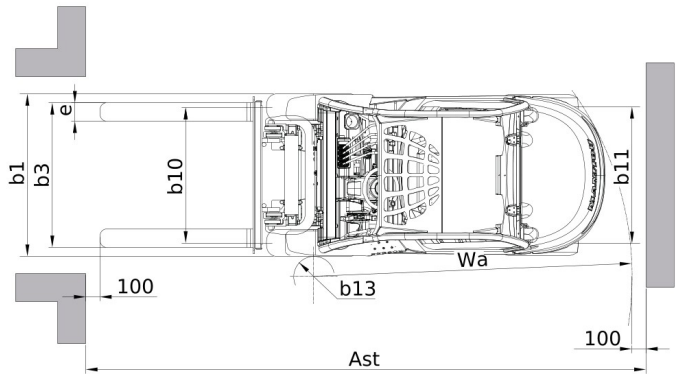
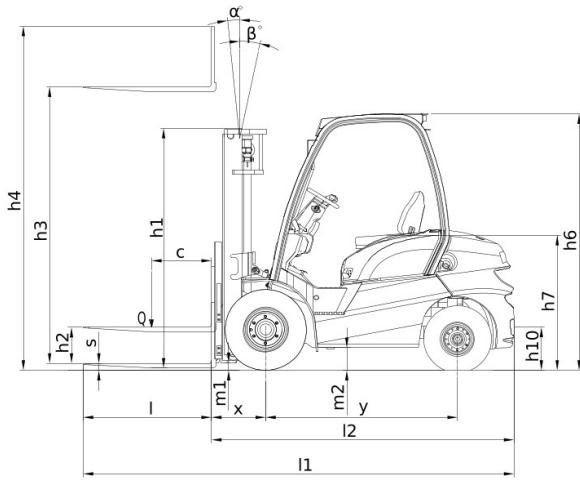
Technical sheet

# MI 30 D

Masted Forklift Trucks



| Technical characteristics |  | Metric                   | Imperial              |
|---------------------------|--|--------------------------|-----------------------|
| 1.1                       | Manufacturer   | Manitou                  | Manitou               |
| 1.2                       | Model  | MI 30 D                  | MI 30 D               |
| 1.3                       | Type of traction   | Diesel                   | Diesel                |
| 1.4                       | Type of operation  | Seated                   | Seated                |
| 1.5                       | Q - Rated capacity   | 3000 kg                  | 6600 lbs              |
| 1.6                       | c - Center of gravity of load  | 500 mm                   | 1 ft 8 in             |
| 1.8                       | x - Distance from the load bearing surface to the centre of the front axle | 480 mm                   | 1 ft 7 in             |
| 1.9                       | y - Wheelbase  | 1700 mm                  | 5 ft 7 in             |
| Weight                    |  |                          |                       |
| 2.1                       | Weight of truck in working order   | 4610 kg                  | 10142 lbs             |
| 2.2                       | Laden weight on front/rear axle  | 6650 kg / 960 kg         | 14630 lbs / 2112 lbs  |
| 2.3                       | Unladen weight on front/rear axle  | 1860 kg / 2750 kg        | 4092 lbs / 6050 lbs   |
| Wheels                    |  |                          |                       |
| 3.1                       | Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)                 | Solid cushion            | Solid cushion         |
| 3.5                       | Number of front wheels (x)   | 2x / 2                   | 2x / 2                |
| 3.6                       | b10 - Front track  | 1.01 mm                  | 3 in                  |
| 3.7                       | b11 - Rear track   | 0.98 mm                  | 3 in                  |
| Dimensions                |  |                          |                       |
| 4.1                       | $\alpha$ / $\beta$ - Front/Rear mast angle                                 | 6 ° / 12 °               | 6 ° / 12 °            |
| 4.2                       | h1 - Height (mast lowered)   | 2200 mm                  | 7 ft 3 in             |
| 4.3                       | h2 - Free lift   | 150 mm                   | 6 in                  |
| 4.4                       | h3 - Lift height (Duplex mast)   | 3300 mm                  | 10 ft 10 in           |
| 4.5                       | h4 - Height of extended mast   | 3870 mm                  | 12 ft 8 in            |
| 4.7                       | h6 - Height of driver protection (cab)                                     | 2130 mm                  | 6 ft 12 in            |
| 4.8                       | h7 - Height of seat  | 1215 mm                  | 3 ft 12 in            |
| 4.12                      | h10 - Height of towing coupling  | 355 mm                   | 1 ft 2 in             |
| 4.19                      | l1 - Total length  | 3870 mm                  | 12 ft 8 in            |
| 4.20                      | l2 - Length to fork heel   | 2720 mm                  | 8 ft 11 in            |
| 4.21                      | b1 - Overall width - Single/twinned wheels                                 | 1230 mm / 1725 mm        | 4 ft / 5 ft 8 in      |
| 4.22                      | e / s / l - Fork dimensions  | 1150 x 12 x 45           | 3.77 x 0.4 x 0.15     |
| 4.23                      | Fork carriage to DIN 15173 A/B   | FEM 3A                   | FEM 3A                |
| 4.24                      | b3 - Width of fork clamp   | 1100 mm                  | 3 ft 7 in             |
| 4.31                      | m1 - Ground clearance under mast   | 130 mm                   | 5 in                  |
| 4.33                      | Ast - Aisle width for 1000 x 1200 pallet widthwise                         | 4140 mm                  | 13 ft 7 in            |
| 4.34                      | Ast - Aisle width for 800 x 1200 pallet lengthwise                         | 4340 mm                  | 14 ft 3 in            |
| 4.35                      | Wa - Turning radius  | 2460 mm                  | 8 ft 1 in             |
| 4.36                      | b13 - Inner turning radius   | 160 mm                   | 6 in                  |
| Performances              |  |                          |                       |
| 5.1                       | Speed of travel laden / unladen  | 18 km/h / 18.50 km/h     | 11.16 mph /           |
| 5.2                       | Lifting speed laden / unladen  | 0.45 m/s / 0.52 m/s      | 1.47 ft/s / 1.70 ft/s |
| 5.3                       | Lowering speed laden / unladen   | 0.43 m/s / 0.48 m/s      | 1.41 ft/s / 1.57 ft/s |
| 5.5                       | Nominal pulling force laden / unladen                                      | 1600 daN / 1380 daN      | /                     |
| 5.7                       | Maximum ramp laden / unladen   | 20 % / -                 | 20 % / -              |
| 5.10                      | Service brake  | Hydraulic                | Hydraulic             |
| Engine                    |  |                          |                       |
| 7.1                       | Engine manufacturer / Type   | Yanmar / 3A              | Yanmar / 3A           |
| 7.2                       | Useful power   | 35 kW                    | 35 kW                 |
| 7.4                       | Number of pistons / Capacity   | 4 / 3054 cm <sup>3</sup> | 4 /                   |
| 7.5                       | Fuel consumption according to VDI cycle                                    | 3.56 l/h                 | -                     |
| Miscellaneous             |  |                          |                       |
| 8.2                       | Working hydraulic pressure for attachments                                 | 160 bar                  | -                     |
| 8.3                       | Oil flow rate for attachments  | 69 l/min                 | -                     |
| 8.4                       | Measured/guaranteed mean noise level at the ear of the operator            | 84 dB(A)                 | 84 dB(A)              |

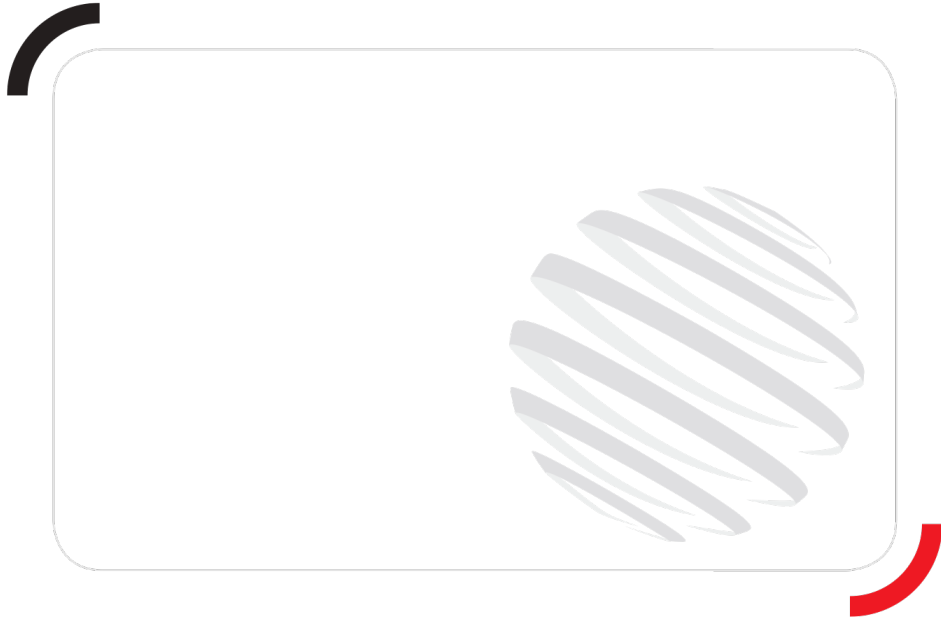


Characteristics of masts and residual capacities

| Duplex Total Visibility  |    | FVD 33 | FVD 37 | FVD 40 |
|--|----|--------|--------|--------|
| Lift height  | mm | 3300   | 3700   | 4000   |
| Height (mast lowered)  | mm | 2200   | 2450   | 2650   |
| Free lift  | mm | 145    | 145    | 145    |
| Height of extended mast  | mm | 4035   | 4435   | 4735   |
| Residual Capacity without attachment (Industrial load chart)         | kg | 3000   | 3000   | 3000   |
| Residual Capacity with integrated side shift (Industrial load chart) | kg | 3000   | 3000   | 3000   |
| Forward/backward mast tilt angle                                     | °  | 6 / 12 | 6 / 12 | 6 / 12 |

| Duplex Free Lift   |    | FLD 33 | FLD 37 | FLD 40 |
|--|----|--------|--------|--------|
| Lift height  | mm | 3300   | 3700   | 4000   |
| Height (mast lowered)  | mm | 2230   | 2430   | 2580   |
| Free lift  | mm | 1475   | 1675   | 1825   |
| Height of extended mast  | mm | 4055   | 4455   | 4755   |
| Residual Capacity without attachment (Industrial load chart)         | kg | 3000   | 3000   | 3000   |
| Residual Capacity with integrated side shift (Industrial load chart) | kg | 3000   | 3000   | 3000   |
| Forward/backward mast tilt angle                                     | °  | 6 / 12 | 6 / 12 | 6 / 12 |

| Triplex Free Lift  |    | FLT 43 | FLT 45 | FLT 47 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|--|----|--------|--------|--------|--------|--------|--------|--------|--------|
| Lift height  | mm | 4300   | 4500   | 4700   | 4800   | 5000   | 5500   | 6000   | 6500   |
| Height (mast lowered)  | mm | 2115   | 2165   | 2215   | 2265   | 2315   | 2515   | 2765   | 2915   |
| Free lift  | mm | 1360   | 1410   | 1460   | 1510   | 1560   | 1760   | 2010   | 2160   |
| Height of extended mast  | mm | 5055   | 5305   | 5455   | 5555   | 5755   | 6255   | 6805   | 7255   |
| Residual Capacity without attachment (Industrial load chart)         | kg | 2950   | 2900   | 2800   | 2800   | 2500   | 1850   | 1400   | 1300   |
| Residual Capacity with integrated side shift (Industrial load chart) | kg | 2850   | 2800   | 2700   | 2700   | 2400   | 1750   | 1300   | 1250   |
| Forward/backward mast tilt angle                                     | °  | 6 / 6  | 6 / 6  | 6 / 6  | 6 / 6  | 6 / 6  | 3 / 6  | 3 / 6  | 3 / 6  |



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