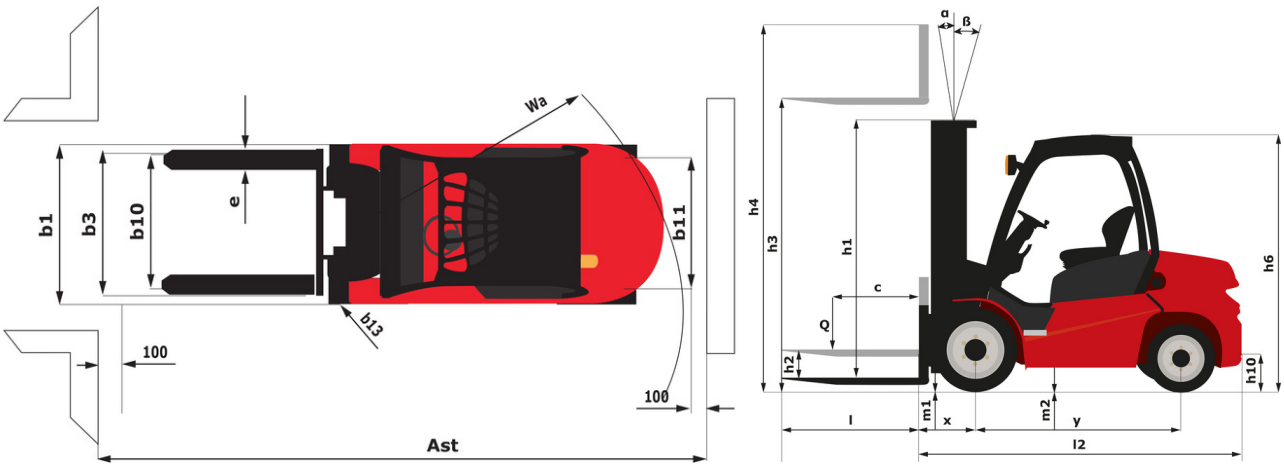
Technical sheet :

# MI 30 G ST5 FOB

MANITOU
HANDLING YOUR WORLD

| | Technical characteristics | | Metric |
|---|---|---|---|
| 1.1 | Manufacturer | | MANITOU |
| 1.2 | Model Name | | MI 30 G ST5 |
| 1.3 | Power source | | Lpg |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 3000 kg |
| 1.6 | Load center of gravity | c | 500 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 480 mm |
| 1.9 | Wheelbase | y | 1700 mm |
| | **Weight** | | |
| 2.1 | Service weight | | 4490 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 6560 kg / 930 kg |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 1805 kg / 2685 kg |
| | **Wheels** | | |
| 3.1 | Tires type | | Super Elastic |
| 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 | 1005 mm |
| 3.7 | Rear wheel gauge | b11 | 975 mm |
| | **Dimensions** | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 2130 mm |
| 4.8 | Seat height/stand height | h7 | 1215 mm |
| 4.12 | Height of towing bar (coupling height) | h10 | 355 mm |
| 4.19 | Overall length | l1 | 3865 mm |
| 4.20 | Length to face of forks | l2 | 2715 mm |
| 4.21 | Overall width | b1 | 1225 mm |
| 4.21 | Overall width - Single wheels | b1 | 1225 mm |
| 4.21 | Overall width - Twinned wheels | b1 | 1725 mm |
| 4.22 | Forks section / width / length | s / e / l | 45 mm x 122 mm x 1150 mm |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 3A |
| 4.24 | Fork carriage width | b3 | 1100 mm |
| 4.31 | Ground clearance below mast | m1 | 130 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 200 mm |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 4140 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 4340 mm |
| 4.35 | Turning radius | Wa | 2460 mm |
| 4.36 | Internal turning radius (over tyres) | b13 | 160 mm |
| | **Performances** | | |
| 5.1 | Travel speed (laden / unladen) | | 20 km/h-20 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.50 m/s-0.53 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.48 m/s-0.50 m/s |
| 5.5 | Drawbar pull (Laden / Unladen) | | 2000 daN / 1080 daN |
| 5.7 | Gradeability (laden / unladen) | | 20 % / 20 % |
| 5.10 | Service brake | | Hydraulic |
| | **Engine** | | |
| 7.1 | Engine brand / model | | GCT (ex-Nissan) / GK25 LPG |
| 7.2 | I.C. Engine power rating | | 43.40 kW |
| 7.3 | Rated speed | | 2700 rpm |
| 7.4 | Number of cylinders / Capacity of cylinders | | 4 - 2488 cm³ |
| | **Miscellaneous** | | |
| 8.2 | Working hydraulic pressure for attachments | | 160 bar |
| 8.3 | Oil flow rate for attachments | | 35 l/min |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 80 dB |

## MI 30 G ST5 FOB - 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 | mm | 2200 | 2450 | 2650 |
| h2 - Mast free lift | mm | 145 | 145 | 145 |
| h3 - Mast lifting height | mm | 3300 | 3700 | 4000 |
| h4 - Mast extended height | mm | 4035 | 4435 | 4735 |
| Residual capacity at max height | kg | 3300 | 3000 | 3000 |
| Residual capacity with integrated side shift at max heigth | kg | 3300 | 3000 | 3000 |
| Height at max capacity | mm | 3300 | 3700 | 4000 |
| Height at max capacity with integrated sideshift | mm | 3300 | 3700 | 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 | mm | 2230 | 2430 | 2580 |
| h2 - Mast free lift | mm | 1475 | 1675 | 1825 |
| h3 - Mast lifting height | mm | 3300 | 3700 | 4000 |
| h4 - Mast extended height | mm | 4055 | 4455 | 4755 |
| Residual capacity at max height | kg | 3000 | 3000 | 3000 |
| Residual capacity with integrated side shift at max heigth | kg | 3000 | 3000 | 3000 |
| Height at max capacity | mm | 3300 | 3700 | 4000 |
| Height at max capacity with integrated sideshift | mm | 3300 | 3700 | 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 | mm | 2115 | 2165 | 2215 | 2265 | 2315 | 2515 | 2765 | 2915 |
| h2 - Mast free lift | mm | 1360 | 1410 | 1460 | 1510 | 1560 | 1760 | 2010 | 2160 |
| h3 - Mast lifting height | mm | 4300 | 4500 | 4700 | 4800 | 5000 | 5500 | 6000 | 6500 |
| h4 - Mast extended height | mm | 5055 | 5305 | 5455 | 5555 | 5755 | 6255 | 6805 | 7255 |
| Residual capacity at max height | kg | 2950 | 2900 | 2800 | 2800 | 2500 | 1850 | 1400 | 1300 |
| Residual capacity with integrated side shift at max heigth | kg | 2850 | 2800 | 2700 | 2700 | 2400 | 1750 | 1300 | 1250 |
| Height at max capacity | mm | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 2500 |
| Height at max capacity with integrated sideshift | mm | 4000 | 4000 | 4000 | 4000 | | | | |

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