Technical sheet :

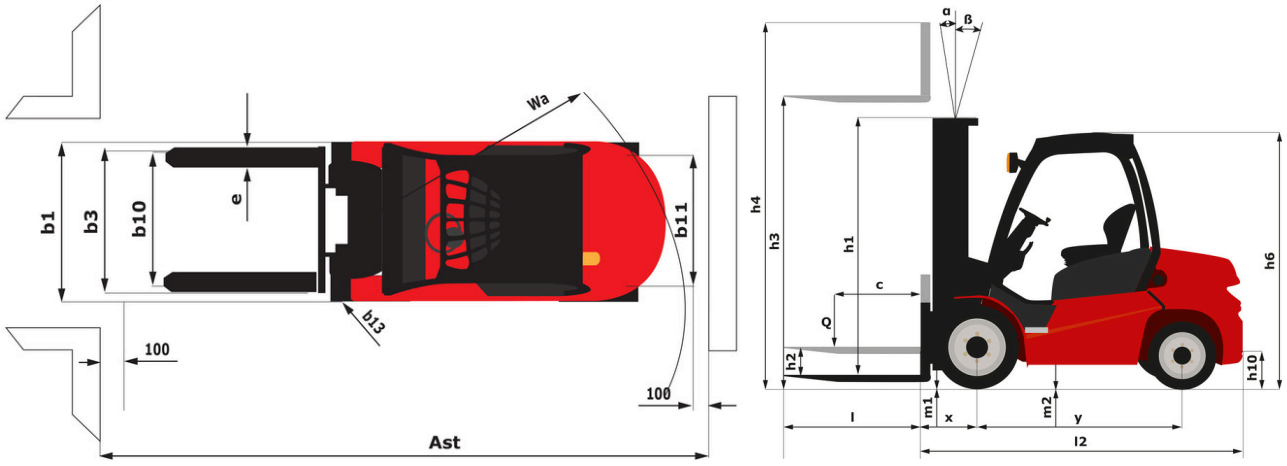
# MI 35 D ST5




MANITOU
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| | Technical characteristics | | Metric |
|---|---|---|---|
| 1.1 | Manufacturer | | MANITOU |
| 1.2 | Model Name | | MI 35 D ST5 |
| 1.3 | Power source | | Diesel |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 3500 kg |
| 1.6 | Load center of gravity | c | 500 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 485 mm |
| 1.9 | Wheelbase | y | 1700 mm |
| | Standard mast reference of the machine | | FVD 33 |
| | **Weight** | | |
| 2.1 | Service weight | | 4860 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 7360 kg / 1000 kg |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 1825 kg / 3035 kg |
| | **Wheels** | | |
| 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 | 1005 mm |
| 3.7 | Rear wheel gauge | b11 | 975 mm |
| | **Dimensions** | | |
| 4.8 | Seat height/stand height | h7 | 1215 mm |
| 4.7 | Height of overhead guard (cabin) | h6 | 2130 mm |
| 4.12 | Height of towing bar (coupling height) | h10 | 360 mm |
| 4.19 | Overall length | l1 | 3935 mm |
| 4.20 | Length to face of forks | l2 | 2785 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 | 50 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 | 4195 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 4395 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) | | 18 km/h-18.50 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.42 m/s-0.45 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.40 m/s-0.35 m/s |
| 5.5 | Drawbar pull (Laden / Unladen) | | 2000 daN / 1520 daN |
| 5.7 | Gradeability (laden / unladen) | | 18 % / 20 % |
| 5.10 | Service brake | | Hydraulic |
| | **Engine** | | |
| 7.1 | Engine brand / model / norm | | Kubota / V2607-CR-E5B / Stage V |
| 7.2 | Engine power (Hp / kW) | | 51 Hp/37.40 kW |
| 7.3 | Rated speed | | 2400 rpm |
| 7.4 | Number of cylinders / Capacity of cylinders | | 4 - 2615 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 | | < 84 dB |

## MI 35 D ST5 - 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 | 2315 | 2565 | 2715 |
| h2 - Mast free lift | mm | 145 | 145 | 145 |
| h3 - Mast lifting height | mm | 3300 | 3700 | 4000 |
| h4 - Mast extended height | mm | 4115 | 4515 | 4815 |
| Residual capacity at max height | kg | 3500 | 3500 | 3500 |
| Residual capacity with integrated side shift at max heigth | kg | 3500 | 3500 | 3500 |
| 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 | 2330 | 2530 | 2680 |
| h2 - Mast free lift | mm | 1500 | 1700 | 1850 |
| h3 - Mast lifting height | mm | 3300 | 3700 | 4000 |
| h4 - Mast extended height | mm | 4130 | 4530 | 4830 |
| Residual capacity at max height | kg | 3500 | 3500 | 3500 |
| Residual capacity with integrated side shift at max heigth | kg | 3500 | 3500 | 3500 |
| 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 | 2215 | 2265 | 2315 | 2365 | 2415 | 2565 | 2815 | 2965 |
| h2 - Mast free lift | mm | 1385 | 1435 | 1485 | 1535 | 1585 | 1735 | 1985 | 2135 |
| h3 - Mast lifting height | mm | 4300 | 4500 | 4700 | 4800 | 5000 | 5500 | 6000 | 6500 |
| h4 - Mast extended height | mm | 5130 | 5380 | 5530 | 5630 | 5830 | 6330 | 6880 | 7330 |
| Residual capacity at max height | kg | 3450 | 3400 | 3300 | 3300 | 3000 | 2200 | 1600 | 1500 |
| Residual capacity with integrated side shift at max heigth | kg | 3450 | 3300 | 3200 | 3200 | 2900 | 2100 | 1500 | 1400 |
| Height at max capacity | mm | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 | 4000 |
| Height at max capacity with integrated sideshift | mm | 4000 | 4000 | 4000 | 4000 | 4000 | 3700 | 3700 | 3700 |

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