

Technical sheet :

MI 35 D ST5 US



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | Imperial | |
|---------------------------|---|-----------|---------------------------------|
| 1.1 | Manufacturer | | MANITOU |
| 1.2 | Model Name | | MI 35 D ST5 US |
| 1.3 | Power source | | Diesel |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 7716 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 |
| Weight | | | |
| 2.1 | Service weight | | 10714 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 16226 lb / 2205 lb |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 4023 lb / 6691 lb |
| 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 | 40 in |
| 3.7 | Rear wheel gauge | b11 | 38 in |
| Dimensions | | | |
| 4.8 | Seat height/stand height | h7 | 48 in |
| 4.7 | Height of overhead guard (cabin) | h6 | 84 in |
| 4.12 | Height of towing bar (coupling height) | h10 | 14 in |
| 4.19 | Overall length | l1 | 155 in |
| 4.20 | Length to face of forks | l2 | 110 in |
| 4.21 | Overall width | b1 | 48 in |
| 4.21 | Overall width - Single wheels | b1 | 48 in |
| 4.21 | Overall width - Twinned wheels | b1 | 68 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 | 165 in |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 173 in |
| 4.35 | Turning radius | Wa | 97 in |
| 4.36 | Internal turning radius (over tyres) | b13 | 6 in |
| Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 11 mph-11 mph |
| 5.2 | Lifting speed (laden / unladen) | | 1 ft/s-1 ft/s |
| 5.3 | Lowering speed (laden / unladen) | | 1 ft/s-1 ft/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 / nom | | 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 - 160 in³ |
| Miscellaneous | | | |
| 8.2 | Working hydraulic pressure for attachments | | 2321 PSI |
| 8.3 | Oil flow rate for attachments | | 9 US gpm |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 84 dB |

MI 35 D ST5 US - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | | FVD 37 | FVD 40 |
|--|----|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 6 | 6 |
| β - Mast/fork carriage tilt, backward | ° | 12 | 12 |
| h1 - Mast lowered height | in | 101 | 106.9 |
| h2 - Mast free lift | in | 5.7 | 5.7 |
| h3 - Mast lifting height | in | 145.7 | 157.5 |
| h4 - Mast extended height | in | 177.8 | 189.6 |
| Residual capacity at max height | lb | 7716 | 7716 |
| Residual capacity with integrated side shift at max height | lb | 7716 | 7716 |
| Height at max capacity | in | 145.7 | 157.5 |
| Height at max capacity with integrated sideshift | in | 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 | 91.7 | 99.6 | 105.5 |
| h2 - Mast free lift | in | 59.1 | 66.9 | 72.8 |
| h3 - Mast lifting height | in | 129.9 | 145.7 | 157.5 |
| h4 - Mast extended height | in | 162.6 | 178.3 | 190.2 |
| Residual capacity at max height | lb | 7716 | 7716 | 7716 |
| Residual capacity with integrated side shift at max height | lb | 7716 | 7716 | 7716 |
| 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 | 87.2 | 89.2 | 91.1 | 93.1 | 95.1 | 101 | 110.8 | 116.7 |
| h2 - Mast free lift | in | 54.5 | 56.5 | 58.5 | 60.4 | 62.4 | 68.3 | 78.1 | 84.1 |
| h3 - Mast lifting height | in | 169.3 | 177.2 | 185 | 189 | 196.9 | 216.5 | 236.2 | 255.9 |
| h4 - Mast extended height | in | 202 | 211.8 | 217.7 | 221.7 | 229.5 | 249.2 | 270.9 | 288.6 |
| Residual capacity at max height | lb | 7606 | 7496 | 7275 | 7275 | 6614 | 4850 | 3527 | 3307 |
| Residual capacity with integrated side shift at max height | lb | 7606 | 7275 | 7055 | 7055 | 6393 | 4630 | 3307 | 3086 |
| Height at max capacity | in | 157.5 | 157.5 | 157.5 | 157.5 | 157.5 | 157.5 | 157.5 | 157.5 |
| Height at max capacity with integrated sideshift | in | 157.5 | 157.5 | 157.5 | 157.5 | 157.5 | 145.7 | 145.7 | 145.7 |



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