

Technical sheet :

M 70-2 H D ST5



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | Imperial | |
|---------------------------|---|-----------|--------------------------|
| 1.1 | Manufacturer | | MANITOU |
| 1.2 | Model Name | | M 70-2 H D ST5 |
| 1.3 | Power source | | Diesel |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 15432 lb |
| 1.6 | Load center of gravity | c | 24 in |
| 1.8 | Load distance, centre of drive axle to fork | x | 32 in |
| 1.9 | Wheelbase | y | 98 in |
| Weight | | | |
| | Standard mast reference of the machine | | FVD 40 |
| 2.1 | Service weight | | 21782 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 32968 lb / 4246 lb |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 8907 lb / 12875 lb |
| Wheels | | | |
| 3.1 | Tires type | | Inflatable |
| 3.2 | Dimensions of front wheels | | 18R19.5 8T N20XF |
| 3.3 | Dimensions of rear wheels | | 265/70R19.5 6T P30HT3 |
| 3.5 | Number of front wheels / rear wheels | | 2 / 2 |
| 3.5.2 | Number of drive wheels | | 2 |
| 3.6 | Front wheel gauge | b10 | 67 in |
| 3.7 | Rear wheel gauge | b11 | 61 in |
| Dimensions | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 97 in |
| 4.8 | Seat height/stand height | h7 | 58 in |
| 4.19 | Overall length | l1 | 224 in |
| 4.20 | Length to face of forks | l2 | 165 in |
| 4.21 | Overall width | b1 | 85 in |
| 4.22 | Forks section x width x length | s / e / l | 3 in x 6 in / 59 in |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 4A |
| 4.24 | Fork carriage width | b3 | 69 in |
| 4.31 | Ground clearance below mast | m1 | 12 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 16 in |
| 4.33 | Aisle width for 1000 x 1200 pallet widthways | Ast | 264 in |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 264 in |
| 4.35 | Turning radius | Wa | 165 in |
| Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 36 ft/s / 14 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) | | 8060 daN / 2930 daN |
| 5.7 | Gradeability (laden / unladen) | | 45 % / 27 % |
| 5.10 | Service brake | | Hydraulic |
| | Transmission type | | Hydrostatic |
| Engine | | | |
| 7.1 | Engine brand / model / norm | | Deutz / TD 3,6 / Stage V |
| 7.2 | Engine power (Hp / kW) | | 75 Hp/55.40 kW |
| 7.3 | Rated speed | | 2500 rpm |
| 7.4 | Number of cylinders | | 4 |
| Miscellaneous | | | |
| 8.2 | Working hydraulic pressure for attachments | | 3336 PSI |
| 8.3 | Oil flow rate for attachments | | 21 US gpm |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 78 dB |

M 70-2 H D ST5 - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | FVD 36 | FVD 40 | FVD 45 |
|---|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 15 | 15 |
| β - Mast/fork carriage tilt, backward | ° | 15 | 15 |
| h1 - Mast lowered height | in | 123.8 | 141.5 |
| h3 - Mast lifting height | in | 141.7 | 177.2 |
| h4 - Mast extended height | in | 195.3 | 230.7 |
| Residual capacity at max height | lb | 15432 | 11023 |
| Residual capacity with hooked-on side shift at max height | lb | 13889 | 8488 |
| Height at max capacity | in | 141.7 | 157.5 |



Head Office

B.P. 249 - 430 rue de l'Aubinière
44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

www.manitou.com



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