

Technical sheet :

MC 30-2 ST5



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | | Metric |
|---------------------------|------------------------------------------------------------------------------------------|-----------|--------------------------------------|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | MC 30-2 ST5 |
| 1.3 | Power source | | Diesel |
| 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 | 626 mm |
| 1.9 | Wheelbase | y | 1900 mm |
| Weight | | | |
| | Standard mast reference of the machine | | FVD 33 |
| 2.1 | Service weight | | 4220 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 6570 kg / 650 kg |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 1570 kg / 2650 kg |
| Wheels | | | |
| 3.1 | Tires type | | Pneumatic |
| 3.2 | Dimensions of front wheels | | 12,5/80-18/12 SL R4 |
| 3.3 | Dimensions of rear wheels | | 7,00-12/12 ED PLUS |
| 3.5 | Number of front wheels / rear wheels | | 2 / 2 |
| 3.5.2 | Number of drive wheels | | 2 |
| 3.6 | Front wheel gauge | b10 | 1159 mm |
| 3.7 | Rear wheel gauge | b11 | 1176 mm |
| Dimensions | | | |
| 4.7 | Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version) | h6 | 2155 mm / 1990 mm |
| 4.8 | Seat height/stand height | h7 | 1034 mm |
| 4.19 | Overall length | l1 | 4265 mm |
| 4.20 | Length to face of forks | l2 | 3085 mm |
| 4.21 | Overall width | b1 | 1450 mm |
| 4.22 | Forks section x width x length | s / e / l | 45 mm x 100 mm / 1200 mm |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 3A |
| 4.24 | Fork carriage width | b3 | 1260 mm |
| 4.31 | Ground clearance below mast | m1 | 300 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 320 mm |
| 4.33 | Aisle width for 1000 x 1200 pallet widthways | Ast | 4626 mm |
| 4.35 | Turning radius | Wa | 2650 mm |
| Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 12 km/h / 24.50 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.47 m/s / 0.46 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.50 m/s / 0.30 m/s |
| 5.5 | Drawbar pull (Laden / Unladen) | | 1700 daN / 910 daN |
| 5.7 | Gradeability (laden / unladen) | | 24 % / 22 % |
| 5.10 | Service brake | | Hydraulic brakes by loss of pressure |
| | Transmission type | | Hydrostatic |
| Engine | | | |
| 7.1 | Engine brand / model / norm | | Kubota / D1803 CRT E5B / Stage V |
| 7.2 | Engine power (Hp / kW) | | 50 Hp/37 kW |
| 7.3 | Rated speed | | 2700 rpm |
| 7.4 | Number of cylinders / Capacity of cylinders | | 3 - 1826 cm³ |
| Miscellaneous | | | |
| 8.1 | Type of drive control | | Electronic |
| 8.2 | Working hydraulic pressure for attachments | | 220 bar |
| 8.3 | Oil flow rate for attachments | | 42 l/min |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 79 dB |

MC 30-2 ST5 - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | | FVD 33 | FVD 37 | FVD 45 |
|-----------------------------------------------------------|----|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 12 | 12 | 12 |
| β - Mast/fork carriage tilt, backward | ° | 10 | 10 | 10 |
| h1 - Mast lowered height | mm | 2338 | 2598 | 3038 |
| h2 - Mast free lift | mm | 117 | 117 | 117 |
| h3 - Mast lifting height | mm | 3300 | 3700 | 4500 |
| h4 - Mast extended height | mm | 4090 | 4490 | 5290 |
| Residual capacity at max height | kg | 1400 | 1400 | 500 |
| Residual capacity with hooked-on side shift at max height | kg | 1400 | 1400 | 500 |
| Height at max capacity | mm | 2700 | 2700 | 2800 |
| Height at max capacity with hooked-on sideshift | mm | 2700 | 2700 | 2800 |

| Free Lift Triplex (FLT) | | FLT 34 | FLT 37 | FLT 40 | FLT 43 | FLT 47 | FLT 55 |
|-----------------------------------------------------------|----|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 12 | 12 | 12 | 12 | 12 | 6 |
| β - Mast/fork carriage tilt, backward | ° | 10 | 10 | 10 | 10 | 10 | 6 |
| h1 - Mast lowered height | mm | 1988 | 2088 | 2188 | 2338 | 2438 | 2788 |
| h2 - Mast free lift | mm | 1235 | 1335 | 1435 | 1585 | 1685 | 2035 |
| h3 - Mast lifting height | mm | 3400 | 3700 | 4000 | 4300 | 4700 | 5500 |
| h4 - Mast extended height | mm | 4236 | 4536 | 4836 | 5136 | 5536 | 6336 |
| Residual capacity at max height | kg | 1900 | 1500 | 1300 | 1400 | 430 | 500 |
| Residual capacity with hooked-on side shift at max height | kg | 1800 | 1400 | 1250 | | 400 | 400 |
| Height at max capacity | mm | 2700 | 2600 | 2700 | 3100 | 2700 | 2500 |
| Height at max capacity with hooked-on sideshift | mm | 2700 | 2600 | 2700 | | 2700 | 2500 |

| Full Visibility Triplex (FVT) | | FVT 33 |
|---------------------------------------|----|--------|
| α - Mast/fork carriage tilt, forward | ° | 12 |
| β - Mast/fork carriage tilt, backward | ° | 10 |
| h1 - Mast lowered height | mm | 1878 |
| h2 - Mast free lift | mm | 129 |
| h3 - Mast lifting height | mm | 3300 |
| h4 - Mast extended height | mm | 4079 |
| Height at max capacity | mm | 2500 |

**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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